

# CITATION REPORT

List of articles citing

Nonlinear dimensionality reduction by locally linear embedd

DOI: 10.1126/science.290.5500.2323  
Science, 2000, 290, 2323-6.

**Source:** <https://exaly.com/paper-pdf/32119875/citation-report.pdf>

**Version:** 2024-04-10

This report has been generated based on the citations recorded by exaly.com for the above article. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

#	Paper	IF	Citations
2281	Fast stochastic neighbor embedding: a trust-region algorithm.		
2280	.		
2279	Digital watermarking based on locally linear embedding.		
2278	Proceedings of the IEEE 1990 Custom Integrated Circuits Conference (Cat. No.90CH2860-5). <b>1990</b> ,		
2277	Editorial. <b>1996</b> , 11, 521-521		
2276	10.1162/153244304322972667. <b>2000</b> , 1,		140
2275	Cognition. The manifold ways of perception. <i>Science</i> , <b>2000</b> , 290, 2268-9	33.3	537
2274	Machine learning for science: state of the art and future prospects. <i>Science</i> , <b>2001</b> , 293, 2051-5	33.3	203
2273	Template matching approach to content based image indexing by low dimensional Euclidean embedding.		3
2272	Sample-based synthesis of talking heads.		1
2271	Parametric representations for nonlinear modeling of visual data.		
2270	Discriminative mining of gene microarray data.		
2269	Distance constrained dimensionality reduction for parametric fault test generator.		2
2268	RNA expression in the early characterization of hepatotoxicants in Wistar rats by high-density DNA microarrays. <b>2001</b> , 33, 1239-58		132
2267	Inferotemporal neurons represent low-dimensional configurations of parameterized shapes. <b>2001</b> , 4, 1244-52		200
2266	Nonlinear mapping from multi-view face patterns to a Gaussian distribution in a low dimensional space.		3
2265	Optimal polarimetric decomposition variables-non-linear dimensionality reduction.		5

2264	Model-based error concealment for wireless video. <b>2002</b> , 12, 483-495	26
2263	Kernel Eigenfaces vs. Kernel Fisherfaces: Face recognition using kernel methods. <b>2002</b> ,	357
2262	Representations of sound that are insensitive to spectral filtering and parametrization procedures. <b>2002</b> , 111, 2257-71	4
2261	Sensor-independent stimulus representations. <b>2002</b> , 99, 7346-51	3
2260	A self-organizing principle for learning nonlinear manifolds. <b>2002</b> , 99, 15869-72	79
2259	Gender Classification of Human Faces. <b>2002</b> , 491-500	33
2258	Visual data mining and monitoring in steel processes.	5
2257	A dimensionality reduction approach to modeling protein flexibility. <b>2002</b> ,	11
2256	Face recognition using extended isomap.	12
2255	Application of Bayesian decomposition for analysing microarray data. <b>2002</b> , 18, 566-75	68
2254	The isomap algorithm and topological stability. <i>Science</i> , <b>2002</b> , 295, 7	33:3 420
2253	Bayesian Decomposition Analysis of Gene Expression in Yeast Deletion Mutants. <b>2002</b> , 105-122	6
2252	Face recognition using mixtures of principal components.	1
2251	Development methodology for dynamic stability control systems. <b>2002</b> , 28, 37	4
2250	Extended Isomap for classification.	3
2249	PRIOR KNOWLEDGE INTEGRATION IN SELFORGANIZING MAPS FOR COMPLEX PROCESS SUPERVISION. <b>2002</b> , 35, 79-84	
2248	Face recognition using Kernel-based Fisher Discriminant Analysis.	2
2247	Deriving action and behavior primitives from human motion data.	66

2246	Residual generation and visualization for understanding novel process conditions.	6
2245	Appearance-based eye gaze estimation.	17
2244	Universal analytical forms for modeling image probabilities. <b>2002</b> , 24, 1200-1214	67
2243	Computational surface flattening: a voxel-based approach. <b>2002</b> , 24, 433-441	22
2242	Extracting MPEG-4 FAPs from Video. 103-113	
2241	References. 263-301	
2240	. <b>2002</b> ,	121
2239	. <b>2002</b> ,	1
2238	Data visualisation and manifold mapping using the ViSOM. <b>2002</b> , 15, 1005-16	80
2237	Unifying keywords and visual contents in image retrieval. <b>2002</b> , 9, 23-33	95
2236	Transition path sampling: throwing ropes over rough mountain passes, in the dark. <b>2002</b> , 53, 291-318	1477
2235	Discriminatory Mining of Gene Expression Microarray Data. <b>2003</b> , 35, 255-272	13
2234	On Advances in Statistical Modeling of Natural Images. <b>2003</b> , 18, 17-33	308
2233	Quantifying curvelike structures of measures by using L2 Jones quantities. <b>2003</b> , 56, 1294-1365	25
2232	Data dimensionality estimation methods: a survey. <b>2003</b> , 36, 2945-2954	181
2231	Learning and understanding dynamic scene activity: a review. <b>2003</b> , 21, 125-136	110
2230	A modified update rule for stochastic proximity embedding. <b>2003</b> , 22, 133-40	16
2229	Laplacian Eigenmaps for Dimensionality Reduction and Data Representation. <b>2003</b> , 15, 1373-1396	4445

2228	Exploring the nonlinear geometry of protein homology. <b>2003</b> , 12, 1604-12	10
2227	Computation in a single neuron: Hodgkin and Huxley revisited. <b>2003</b> , 15, 1715-49	110
2226	A geodesic framework for analyzing molecular similarities. <b>2003</b> , 43, 475-84	33
2225	The mean angular distance among objects and its relationships with Kohonen artificial neural networks. <b>2003</b> , 43, 1403-11	6
2224	A novel approach in off-line handwritten Chinese character stroke segmentation.	
2223	Intensity versus identity coding in an olfactory system. <b>2003</b> , 39, 991-1004	430
2222	Independent spectral representations of images for recognition. <b>2003</b> , 20, 1271-82	15
2221	Nonlinear Dimension Reduction via Local Tangent Space Alignment. <b>2003</b> , 477-481	40
2220	Optimal cluster preserving embedding of nonmetric proximity data. <b>2003</b> , 25, 1540-1551	98
2219	Statistical Challenges in Astronomy. <b>2003</b> ,	12
2218	Classification Modulo Invariance, With Application to Face Recognition. <b>2003</b> , 12, 829-852	1
2217	A survey of recent developments in theoretical neuroscience and machine vision.	2
2216	Planar arrangement of high-dimensional biomedical data sets by isomap coordinates.	3
2215	Dimensionality reduction using kernel pooled local discriminant information.	1
2214	Clustering appearances of objects under varying illumination conditions.	197
2213	Learning appearance and transparency manifolds of occluded objects in layers.	17
2212	Markerless kinematic model and motion capture from volume sequences.	4
2211	Local Context Finder (LCF) reveals multidimensional relationships among mRNA expression profiles of Arabidopsis responding to pathogen infection. <b>2003</b> , 100, 10842-7	17

2210	Hessian eigenmaps: locally linear embedding techniques for high-dimensional data. <b>2003</b> , 100, 5591-6	931
2209	A study of accuracy and precision in oligonucleotide arrays: extracting more signal at large concentrations. <b>2003</b> , 19, 178-84	41
2208	Unsupervised Learning of Curved Manifolds. <b>2003</b> , 453-465	9
2207	Head pose estimation using Fisher Manifold learning.	28
2206	Probabilistic tracking and recognition of nonrigid hand motion.	3
2205	Learning a locality preserving subspace for visual recognition. <b>2003</b> ,	7
2204	Understanding protein flexibility through dimensionality reduction. <b>2003</b> , 10, 617-34	77
2203	Supervised Locally Linear Embedding. <b>2003</b> , 333-341	99
2202	Supervised Locally Linear Embedding Algorithm for Pattern Recognition. <b>2003</b> , 386-394	24
2201	Learning object intrinsic structure for robust visual tracking.	18
2200	Hyperspectral image processing using locally linear embedding.	30
2199	Is there something out there? Inferring space from sensorimotor dependencies. <b>2003</b> , 15, 2029-49	113
2198	Automated derivation of behavior vocabularies for autonomous humanoid motion. <b>2003</b> ,	31
2197	Induced well-distributed sets in Riemannian spaces. <b>2003</b> , 29, 82-94	0
2196	Entropic graphs for manifold learning.	8
2195	Computational AstroStatistics: Fast and Efficient Tools for Analysing Huge Astronomical Data Sources. <b>2003</b> , 265-278	2
2194	Optimal image classification employing "optimal" polarimetric variables.	
2193	Machine learning for computer graphics: a manifesto and tutorial.	4

2192	Visual scan-path analysis with feature space transient fixation moments. <b>2003</b> ,	1
2191	Novel signal shape descriptors through wavelet transforms and dimensionality reduction. <b>2003</b> ,	4
2190	Clustering in Knowledge Embedded Space. <b>2003</b> , 480-491	5
2189	Strategies of shape representation in macaque visual area V2. <b>2003</b> , 20, 313-28	60
2188	Image Database Navigation. <b>2003</b> ,	
2187	A data-driven reflectance model. <b>2003</b> , 22, 759-769	413
2186	A data-driven reflectance model. <b>2003</b> ,	85
2185	Comparison of dimensionality reduction methods for wood surface inspection. <b>2003</b> , 5132, 178	19
2184	Reflections on SCMA III. <b>2003</b> , 377-386	
2183	Nonlinear Multidimensional Data Projection and Visualisation. <b>2003</b> , 377-388	8
2182	Unified Locally Linear Embedding and Linear Discriminant Analysis Algorithm (ULLELDA) for Face Recognition. <b>2004</b> , 296-304	19
2181	LLE Based Gait Analysis and Recognition. <b>2004</b> , 671-679	3
2180	Temporal dynamics of shape analysis in macaque visual area V2. <b>2004</b> , 92, 3030-42	60
2179	Some Notes on Applied Mathematics for Machine Learning. <b>2004</b> , 21-40	2
2178	Control of piece-wise linear systems with piece-wise linear controls. <b>2004</b> ,	1
2177	3D/4D Cardiac Segmentation Using Active Appearance Models, Non-rigid Registration, and the Insight Toolkit. <b>2004</b> , 419-426	5
2176	Automated extraction and parameterization of motions in large data sets. <b>2004</b> , 23, 559-568	293
2175	Breast MRI data analysis by LLE. <b>2004</b> ,	2

2174	Texture model regression for effective feature discrimination: Application to seismic facies visualization and interpretation. <b>2004</b> , 69, 958-967	32
2173	Learning to cluster using local neighborhood structure. <b>2004</b> ,	2
2172	Separating style and content on a nonlinear manifold.	74
2171	Foldamer simulations: novel computational methods and applications to poly-phenylacetylene oligomers. <b>2004</b> , 121, 12760-71	26
2170	Local smoothing for manifold learning.	2
2169	Toward view-invariant representations of object structure learned using object constancy cues in natural movies.	
2168	Inferring 3D body pose from silhouettes using activity manifold learning.	167
2167	BoostMap: A method for efficient approximate similarity rankings.	65
2166	Blind normalization of speech from different channels. <b>2004</b> , 116, 519-29	2
2165	Manifold learning using Euclidean k-nearest neighbor graphs [image processing examples].	3
2164	Metabolite fingerprinting: detecting biological features by independent component analysis. <b>2004</b> , 20, 2447-54	226
2163	Exploratory analysis and visualization of speech and music by locally linear embedding.	16
2162	Obstacle avoidance through incremental learning with attention selection. <b>2004</b> ,	
2161	Detecting the presence of an inhomogeneous region in a homogeneous background: taking advantages of the underlying geometry via manifolds.	
2160	Polarimetric SAR image classification-exploiting optimal variables derived from multiple-image datasets.	2
2159	Gait analysis using ISOMAP.	
2158	Gait analysis using LLE.	0
2157	An efficient subspace sampling framework for high-dimensional data reduction, selectivity estimation, and nearest-neighbor search. <b>2004</b> , 16, 1247-1262	6



2156	Manifold learning algorithms for localization in wireless sensor networks.	31
2155	Machine Learning and Statistical Modeling Approaches to Image Retrieval. <b>2004,</b>	
2154	Protein ranking: from local to global structure in the protein similarity network. <b>2004,</b> 101, 6559-63	98
2153	Learning eigenfunctions links spectral embedding and kernel PCA. <b>2004,</b> 16, 2197-219	196
2152	Face recognition using two novel nearest neighbor classifiers.	
2151	Informative representations of unstructured environments. <b>2004,</b>	3
2150	A spatio-temporal extension to Isomap nonlinear dimension reduction. <b>2004,</b>	101
2149	Locally linear metric adaptation for semi-supervised clustering. <b>2004,</b>	30
2148	Motion map. <b>2004,</b>	41
2147	Analysis of Microarray Gene Expression Data. <b>2004,</b>	0
2146	Text comparison based on dynamic programming. <b>2004,</b> 23, 66-71	5
2145	High Resolution Acquisition, Learning and Transfer of Dynamic 3-D Facial Expressions. <b>2004,</b> 23, 677-686	79
2144	Sparse coding of sensory inputs. <b>2004,</b> 14, 481-7	895
2143	Linear low-rank approximation and nonlinear dimensionality reduction. <b>2004,</b> 47, 908	2
2142	Recent Advances in Subspace Analysis for Face Recognition. <b>2004,</b> 275-287	2
2141	Learning-based tracking of complex non-rigid motion. <b>2004,</b> 19, 489-500	2
2140	Locally linear embedding for dimensionality reduction in QSAR. <b>2004,</b> 18, 475-82	13
2139	Principal manifolds and nonlinear dimensionality reduction via tangent space alignment. <b>2004,</b> 8, 406-424	132

2138	Distance metric learning by knowledge embedding. <b>2004</b> , 37, 161-163	8
2137	Reconstruction and analysis of multi-pose face images based on nonlinear dimensionality reduction. <b>2004</b> , 37, 325-336	40
2136	Locality pursuit embedding. <b>2004</b> , 37, 781-788	48
2135	Locally nearest neighbor classifiers for pattern classification. <b>2004</b> , 37, 1307-1309	83
2134	Distance-preserving mapping of patterns to 3-space. <b>2004</b> , 25, 119-128	2
2133	Shape variability and spatial relationships modeling in statistical pattern recognition. <b>2004</b> , 25, 239-247	12
2132	Self-organizing maps and clustering methods for matrix data. <b>2004</b> , 17, 1211-29	29
2131	Distance-preserving projection of high dimensional data. <b>2004</b> , 25, 259-266	3
2130	Probabilistic expression analysis on manifolds.	29
2129	Unsupervised learning of image manifolds by semidefinite programming.	7
2128	Volatile metabolic monitoring of glycemic status in diabetes using electronic olfaction. <b>2004</b> , 6, 534-44	36
2127	.	4
2126	Gait style and gait content: bilinear models for gait recognition using gait re-sampling.	
2125	Steerable, Progressive Multidimensional Scaling.	43
2124	The pre-image problem in kernel methods. <b>2004</b> , 15, 1517-25	250
2123	Nearest manifold approach for face recognition.	9
2122	Super-resolution through neighbor embedding.	688
2121	.	

2120	Cartoon textures. <b>2004</b> ,	23
2119	A survey of classification learning algorithm.	1
2118	. <b>2004</b> , 52, 2210-2221	158
2117	COMPSTAT 2004 [Proceedings in Computational Statistics. <b>2004</b> ,	1
2116	Advanced Lectures on Machine Learning. <b>2004</b> ,	31
2115	Unsupervised Learning. <b>2004</b> , 72-112	120
2114	Trajectory Interpolation for Parametrized Maneuvering and Flexible Motion Planning of Autonomous Vehicles. <b>2004</b> ,	4
2113	Gaussian processes for machine learning. <b>2004</b> , 14, 69-106	434
2112	Automated extraction and parameterization of motions in large data sets. <b>2004</b> ,	39
2111	Visualizing knowledge for data mining using dimension reduction mappings.	
2110	Principal Manifolds and Nonlinear Dimensionality Reduction via Tangent Space Alignment. <b>2004</b> , 26, 313-338	917
2109	Learning a kernel matrix for nonlinear dimensionality reduction. <b>2004</b> ,	218
2108	Distance-preserving projection of high-dimensional data for nonlinear dimensionality reduction. <b>2004</b> , 26, 1243-6	22
2107	Improvements to land-cover and invasive species mapping from hyperspectral imagery in the Virginia Coast reserve.	1
2106	Modeling data manifold geometry in hyperspectral imagery.	2
2105	Boundary representation techniques for object-based image compression. <b>2004</b> , 5208, 22	0
2104	A supervised nonlinear local embedding for face recognition.	
2103	Manifold Based Analysis of Facial Expression.	1

2102 Learning Image Manifold Using Web Data. **2004**, 907-914

2101 Nonlinear Manifold Learning For Data Stream. **2004**,

22

2100 Spectral Solution of Large-Scale Extrinsic Camera Calibration as a Graph Embedding Problem. **2004**, 262-273 19

2099 Dimensionality Reduction of Pertinent Features for Exploratory Analysis in Decision Support Systems. **2004**, 37, 271-276

2098 Informatics (Computational Biology). **2004**,

2097 Facial Expression Hallucination. **2005**,

1

2096 A semi-supervised framework for mapping data to the intrinsic manifold. **2005**,

2

2095 The multiscale structure of non-differentiable image manifolds. **2005**, 5914, 413

14

2094 Nonlinear feature extraction of hyperspectral data based on locally linear embedding (LLE).

12

2093 Applying nonlinear manifold learning to hyperspectral data for land cover classification.

7

2092 Empirical Study on Appearance-Based Binary Age Classification. **2005**, 241-255

2091 Exploration of high-dimensional data manifolds for object classification. **2005**, 5807, 400

2090 Learning appearance manifolds from video.

33

2089 Tangent-corrected embedding.

2

2088 Local information embedding by dimension extension and information risk minimization. **2005**,

2087 Reliable segmentation of pedestrians in moving scenes.

2086 A better scaled local tangent space alignment algorithm.

2085 BACK MATTER. **2005**, 515-607

2084	A Linear Generative Model for Graph Structure. <b>2005</b> , 54-62	4
2083	Approximating a Gram Matrix for Improved Kernel-Based Learning. <b>2005</b> , 323-337	26
2082	SLLE for predicting membrane protein types. <b>2005</b> , 232, 7-15	129
2081	Auto-associative models and generalized principal component analysis. <b>2005</b> , 93, 21-39	5
2080	Cross-entropy embedding of high-dimensional data using the neural gas model. <b>2005</b> , 18, 727-37	12
2079	Exploring the structure of supervised data by Discriminant Isometric Mapping. <b>2005</b> , 38, 599-601	11
2078	Eye tracking in the wild. <b>2005</b> , 98, 155-181	126
2077	Face recognition using laplacianfaces. <b>2005</b> , 27, 328-340	2158
2076	Re-coloring Images for Gamuts of Lower Dimension. <b>2005</b> , 24, 423-432	138
2075	Encoding a temporally structured stimulus with a temporally structured neural representation. <b>2005</b> , 8, 1568-76	123
2074	Dimensionality reduction and visualization of geoscientific images via locally linear embedding. <b>2005</b> , 31, 689-697	6
2073	Geometric diffusions for the analysis of data from sensor networks. <b>2005</b> , 15, 576-84	10
2072	A hand gesture recognition system based on local linear embedding. <b>2005</b> , 16, 442-454	34
2071	Supervised kernel locality preserving projections for face recognition. <b>2005</b> , 67, 443-449	74
2070	Learning algorithms utilizing quasi-geodesic flows on the Stiefel manifold. <b>2005</b> , 67, 106-135	94
2069	Tools for application-driven linear dimension reduction. <b>2005</b> , 67, 136-160	18
2068	Nonlinear dimensionality reduction of data manifolds with essential loops. <b>2005</b> , 67, 29-53	57
2067	Exploiting manifold geometry in hyperspectral imagery. <b>2005</b> , 43, 441-454	307

2066	Feature extraction for nearest neighbor classification: Application to gender recognition. <b>2005</b> , 20, 561-576	6
2065	Visualizing knowledge domains. <b>2005</b> , 37, 179-255	640
2064	SVM decision boundary based discriminative subspace induction. <b>2005</b> , 38, 1746-1758	14
2063	A facial expression recognition system based on supervised locally linear embedding. <b>2005</b> , 26, 2374-2389	53
2062	An ensemble-based method for linear feature extraction for two-class problems. <b>2005</b> , 8, 227-237	12
2061	Elastic Principal Graphs and Manifolds and their Practical Applications. <b>2005</b> , 75, 359-379	45
2060	Correlative GC-TOF-MS-based metabolite profiling and LC-MS-based protein profiling reveal time-related systemic regulation of metabolite-protein networks and improve pattern recognition for multiple biomarker selection. <b>2005</b> , 1, 109-121	76
2059	Image Manifolds which are Isometric to Euclidean Space. <b>2005</b> , 23, 5-24	56
2058	STATISTICAL PATTERN RECOGNITION. <b>2005</b> , 3-24	7
2057	Boosting Multiple Classifiers Constructed by Hybrid Discriminant Analysis. <b>2005</b> , 42-52	4
2056	Visualizing Complex Networks. <b>2005</b> , 183-201	1
2055	Fast Manifold Learning Based on Riemannian Normal Coordinates. <b>2005</b> , 920-929	13
2054	. <b>2005</b> ,	17
2053	Incremental Locally Linear Embedding Algorithm. <b>2005</b> , 521-530	9
2052	Face Detection Based on the Manifold. <b>2005</b> , 208-218	1
2051	Analysis of event-related fMRI data using diffusion maps. <b>2005</b> , 19, 652-63	6
2050	Bilinear sparse coding for invariant vision. <b>2005</b> , 17, 47-73	48
2049	Cluster Analysis of the Newcastle Electronic Corpus of Tyneside English: A Comparison of Methods. <b>2005</b> , 20, 125-146	7

2048	OCFS. <b>2005</b> ,	47
2047	Automatic 3D Facial Expression Analysis in Videos. <b>2005</b> , 293-307	33
2046	Fusion of Locally Linear Embedding and Principal Component Analysis for Face Recognition (FLLEPCA). <b>2005</b> , 326-333	9
2045	Non-linear PCA: a missing data approach. <b>2005</b> , 21, 3887-95	132
2044	Query-sensitive embeddings. <b>2005</b> ,	18
2043	Estimating manifold dimension by inversion error. <b>2005</b> ,	2
2042	Manifold clustering. <b>2005</b> ,	74
2041	CURLER. <b>2005</b> ,	43
2040	Text classification with kernels on the multinomial manifold. <b>2005</b> ,	37
2039	Towards manifold learning for gamebot behavior modeling. <b>2005</b> ,	3
2038	Performance animation from low-dimensional control signals. <b>2005</b> , 24, 686-696	183
2037	Manifold learning visualization of network traffic data. <b>2005</b> ,	13
2036	Semantic manifold learning for image retrieval. <b>2005</b> ,	58
2035	Texture design using a simplicial complex of morphable textures. <b>2005</b> , 24, 787-794	62
2034	Orthogonal locality preserving indexing. <b>2005</b> ,	37
2033	Using nonlinear dimensionality reduction in 3D figure animation. <b>2005</b> ,	4
2032	Texture design using a simplicial complex of morphable textures. <b>2005</b> ,	17
2031	Spectral analysis of alignment in manifold learning.	

2030	Graph-theoretic scagnostics.	72
2029	Face recognition using OPRA-faces.	2
2028	. 2005,	1
2027	Color by linear neighborhood embedding. 2005,	
2026	A Bernoulli relational model for nonlinear embedding.	
2025	. 2005,	
2024	Attentive Behavior Detection by Non-Linear Head Pose Embedding and Mapping. 2005,	1
2023	A complexity-regularized quantization approach to nonlinear dimensionality reduction. 2005,	2
2022	Discriminant Locality Preserving Projections: A New Method to Face Representation and Recognition.	1
2021	Performance animation from low-dimensional control signals. 2005,	40
2020	Local discriminant embedding and its variants.	33
2019	Face membership authentication using SVM classification tree generated by membership-based LLE data partition. 2005, 16, 436-46	46
2018	Channel-independent and sensor-independent stimulus representations. 2005, 98, 104701	4
2017	Driver activity monitoring through supervised and unsupervised learning.	10
2016	A tool for the quantitative spatial analysis of complex cellular systems. 2005, 14, 1300-13	12
2015	Computer Vision for Biomedical Image Applications. 2005,	4
2014	Data embedding techniques and applications. 2005,	
2013	Fundamentals, Challenges, and Advances of Statistical Learning for Knowledge Discovery and Problem Solving: A BYY Harmony Perspective.	



2012	Image clustering with tensor representation. <b>2005,</b>	19
2011	Supervised LLE in ICA Space for Facial Expression Recognition.	4
2010	Image denoising through locally linear embedding.	1
2009	Face recognition with weighted locally linear embedding.	6
2008	Local Linear Embedding with Morphable Model for Face Recognition. <b>2005,</b> 197-201	1
2007	Advances in Neural Networks [ISNN 2005. <b>2005,</b>	0
2006	Computational Information Geometry and its Applications.	1
2005	Head pose estimation by non-linear embedding and mapping. <b>2005,</b>	1
2004	Adaptive Nonlinear Auto-Associative Modeling Through Manifold Learning. <b>2005,</b> 599-604	3
2003	The manifolds of spatial hearing.	9
2002	Priors for people tracking from small training sets. <b>2005,</b>	143
2001	Efficient block noise removal based on nonlinear manifolds. <b>2005,</b>	
2000	LPP/QR for under-sampled image recognition. <b>2005,</b>	
1999	Nonlinear mapping using particle swarm optimisation.	1
1998	Data-dependent kernels for high-dimensional data classification.	
1997	LLE based gait recognition. <b>2005,</b>	1
1996	A robust generalization of isomap for new data. <b>2005,</b>	1
1995	Local manifold matching for face recognition. <b>2005,</b>	

1994	3D reconstruction by fitting low-rank matrices with missing data.	16
1993	Supervised Learning on Local Tangent Space. <b>2005</b> , 546-551	9
1992	Towards a Theoretical Foundation for Laplacian-Based Manifold Methods. <b>2005</b> , 486-500	67
1991	CLUE: cluster-based retrieval of images by unsupervised learning. <b>2005</b> , 14, 1187-201	170
1990	Hippocampal shape analysis using medial surfaces. <b>2005</b> , 25, 1077-89	80
1989	Comparison of Systems using Diffusion Maps.	4
1988	Detail preserving reproduction of color images for monochromats and dichromats. <b>2005</b> , 25, 22-30	119
1987	Principal surfaces from unsupervised kernel regression. <b>2005</b> , 27, 1379-91	43
1986	Building k edge-disjoint spanning trees of minimum total length for isometric data embedding. <b>2005</b> , 27, 1680-3	44
1985	Locally linear discriminant analysis for multimodally distributed classes for face recognition with a single model image. <b>2005</b> , 27, 318-327	192
1984	Kernel pooled local subspaces for classification. <b>2005</b> , 35, 489-502	8
1983	MetricMap: an embedding technique for processing distance-based queries in metric spaces. <b>2005</b> , 35, 973-87	24
1982	Supervised nonlinear dimensionality reduction for visualization and classification. <b>2005</b> , 35, 1098-107	285
1981	Geometric Methods for Feature Extraction and Dimensional Reduction. <b>2005</b> , 59-91	24
1980	Uncovering manifold structures in Robonaut's sensory-data state space.	6
1979	Elliptic and Parabolic Problems. <b>2005</b> ,	1
1978	Graph-Based Representations in Pattern Recognition. <b>2005</b> ,	1
1977	The Grammar of Graphics. <b>2005</b> ,	16

1976	Robotic imitation from human motion capture using Gaussian processes.	20
1975	Orthogonal neighborhood preserving projections.	22
1974	Intelligent Multimedia Processing with Soft Computing. <b>2005,</b>	1
1973	Markerless Motion Capture using Multiple Cameras.	16
1972	Predicting customer behavior via calling links.	4
1971	Comparison of linear and non-linear data projection techniques in recognizing universal facial expressions.	3
1970	A statistical framework for natural feature representation. <b>2005,</b>	4
1969	Locally Linear Embedding for Markerless Human Motion Capture Using Multiple Cameras.	2
1968	Personalized Unit Selection for an Image-based Facial Animation System. <b>2005,</b>	0
1967	Statistically quantitative volume visualization.	25
1966	A stochastic model for natural feature representation. <b>2005,</b>	2
1965	.	4
1964	A novel algorithm for initializing clustering centers. <b>2005,</b>	2
1963	Modeling Dynamic Textures Using Subspace Mixtures.	
1962	Mesh parameterization for an open connected surface without partition.	
1961	Manifold Learning for Image Denoising. <b>2005,</b>	
1960	A nonlinear approach for face sketch synthesis and recognition.	18
1959	Neighborhood preserving embedding. <b>2005,</b>	61

1958	Locating the nodes: cooperative localization in wireless sensor networks. <b>2005</b> , 22, 54-69	1914
1957	.	13
1956	Survey of clustering algorithms. <b>2005</b> , 16, 645-78	3115
1955	Manifold Learning and Applications in Recognition. <b>2005</b> , 281-300	13
1954	Geometric diffusions as a tool for harmonic analysis and structure definition of data: diffusion maps. <b>2005</b> , 102, 7426-31	944
1953	Self-Organizing Map Learning Nonlinearly Embedded Manifolds. <b>2005</b> , 4, 22-31	7
1952	Incremental online learning in high dimensions. <b>2005</b> , 17, 2602-34	372
1951	Nonlinear Dimensionality Reduction Using Circuit Models. <b>2005</b> , 950-959	
1950	Non-linear dimension reduction with tangent bundle approximation.	1
1949	Video-Based Face Recognition Using Bayesian Inference Model. <b>2005</b> , 122-130	11
1948	Pattern discovery in expression profiling data. <b>2005</b> , Chapter 22, Unit 22.5	1
1947	Model-based segmentation of medical imagery by matching distributions. <b>2005</b> , 24, 281-92	88
1946	Energy Minimization Methods in Computer Vision and Pattern Recognition. <b>2005</b> ,	2
1945	All-optical nanoscale pH meter. <b>2006</b> , 6, 1687-92	299
1944	Computer Vision I ECCV 2006. <b>2006</b> ,	35
1943	Reconstructing Distances among Objects from Their Discriminability. <b>2006</b> , 71, 365-386	10
1942	Laplace-Beltrami Eigenfunctions Towards an Algorithm That "Understands" Geometry.	124
1941	Image Categorization with Semi-Supervised Learning. <b>2006</b> ,	0

1940	Toward Intelligent Use of Semantic Information on Subspace Discovery for Image Retrieval. <b>2006,</b>	1
1939	Computer science. New life for neural networks. <i>Science</i> , <b>2006</b> , 313, 454-5	33.3 22
1938	Classification of Imbalanced Data by Using the SMOTE Algorithm and Locally Linear Embedding. <b>2006,</b>	53
1937	Extending Manifold Learning Algorithms by Neural Networks. <b>2006,</b>	
1936	Colorization Based on Image Manifold Learning. <b>2006,</b>	1
1935	Sensory-Motor Manifold Structure Induced by Task Outcome: Experiments with Robonaut. <b>2006,</b>	3
1934	. <b>2006,</b>	17
1933	Locally Multidimensional Scaling for Nonlinear Dimensionality Reduction. <b>2006,</b>	2
1932	Camera calibration using symmetric objects. <b>2006</b> , 15, 3614-9	21
1931	Face recognition with image sets using hierarchically extracted exemplars from appearance manifolds.	7
1930	Nonlinear Dimension Reduction and Activation Detection for fMRI Dataset.	0
1929	Multi-view face recognition by nonlinear dimensionality reduction and generalized linear models.	2
1928	Face Recognition Based on Geodesic Preserving Projection Algorithm with 3D Morphable Model. <b>2006,</b>	
1927	M-Face: An Appearance-Based Photorealistic Model for Multiple Facial Attributes Rendering. <b>2006</b> , 16, 830-842	34
1926	Supervised Isomap with Explicit Mapping.	1
1925	Locally Linear Models on Face Appearance Manifolds with Application to Dual-Subspace Based Classification.	
1924	Globalizing Local Neighborhood for Locally Linear Embedding. <b>2006,</b>	5
1923	Building Connected Neighborhood Graphs for Locally Linear Embedding. <b>2006,</b>	0

1922	Counting Pedestrians in Video Sequences Using Trajectory Clustering. <b>2006</b> , 16, 1008-1020	80	
1921	Synthesis and Control of High Resolution Facial Expressions for Visual Interactions. <b>2006</b> ,	3	
1920	Probabilistic Enhanced Mapping with the Generative Tabular Model. <b>2006</b> ,		
1919	Hand Gesture Recognition and Tracking based on Distributed Locally Linear Embedding. <b>2006</b> ,	4	
1918	Orthogonal laplacianfaces for face recognition. <b>2006</b> , 15, 3608-14	536	
1917	Gait tracking and recognition using person-dependent dynamic shape model.	1	
1916	Emotion Recognition from Noisy Speech. <b>2006</b> ,	29	
1915	Carrying Object Detection Using Pose Preserving Dynamic Shape Models. <b>2006</b> , 315-325	9	
1914	Emotional Speech Analysis on Nonlinear Manifold. <b>2006</b> ,		
1913	Reducing the dimensionality of data with neural networks. <i>Science</i> , <b>2006</b> , 313, 504-7	33.3	10216
1912	Font adaptive word indexing of modern printed documents. <b>2006</b> , 28, 1187-99	31	
1911	Learning nonlinear image manifolds by global alignment of local linear models. <b>2006</b> , 28, 1236-50	60	
1910	Diffusion maps and coarse-graining: A unified framework for dimensionality reduction, graph partitioning, and data set parameterization. <b>2006</b> , 28, 1393-403	374	
1909	Data fusion and multicue data matching by diffusion maps. <b>2006</b> , 28, 1784-97	214	
1908	Metric learning for text documents. <b>2006</b> , 28, 497-508	63	
1907	Sparse representation for coarse and fine object recognition. <b>2006</b> , 28, 555-67	16	
1906	High-dimensional visual analytics: interactive exploration guided by pairwise views of point distributions. <b>2006</b> , 12, 1363-72	60	
1905	Semi-Supervised Classification Using Linear Neighborhood Propagation.	7	

1904	.	1
1903	Learning Nonlinear Manifolds from Time Series. <b>2006</b> , 245-256	12
1902	Face Recognition on Bionic Pattern. <b>2006</b> ,	0
1901	Efficient Computation of Isometry-Invariant Distances Between Surfaces. <b>2006</b> , 28, 1812-1836	130
1900	Estimation of the intrinsic dimensionality of fMRI data. <b>2006</b> , 29, 145-54	47
1899	Monocular Tracking of 3D Human Motion with a Coordinated Mixture of Factor Analyzers. <b>2006</b> , 137-150	22
1898	Dynamical principles in neuroscience. <b>2006</b> , 78, 1213-1265	533
1897	Improved Manifold Coordinate Representations of Large-Scale Hyperspectral Scenes. <b>2006</b> , 44, 2786-2803	115
1896	Spectral Dimensionality Reduction. <b>2006</b> , 519-550	11
1895	Graph embedded analysis for head pose estimation.	4
1894	Manifolds of Bag of Pixels: A Better Representation for Image Recognition. <b>2006</b> ,	3
1893	DT-CWT Feature Based Classification Using Orthogonal Neighborhood Preserving Projections for Face Recognition. <b>2006</b> ,	5
1892	Probabilistic Linear Discriminant Analysis. <b>2006</b> , 531-542	108
1891	Robust Methods for Microarray Analysis. 99-130	
1890	Encoding and decoding of overlapping odor sequences. <b>2006</b> , 51, 467-82	131
1889	Rejoinder. <b>2006</b> , 21, 358	4
1888	BEYOND ONE STILL IMAGE: FACE RECOGNITION FROM MULTIPLE STILL IMAGES OR A VIDEO SEQUENCE. <b>2006</b> , 547-575	10
1887	Characterisation of long-term climate change by dimension estimates of multivariate palaeoclimatic proxy data. <b>2006</b> , 13, 485-497	15

1886	. 2006,	2
1885	. 2006,	10
1884	Analysis of Heterogeneous Data in Ultrahigh Dimensions. 2006, 105-124	1
1883	. 2006,	
1882	Resolution enhancement of low-quality videos using a high-resolution frame. 2006, 6077, 88	7
1881	Performance Evaluation of Subspace-based Algorithm in Selecting Differentially Expressed Genes and Classification of Tissue Types from Microarray Data.	
1880	Face Recognition Based on Supervised Kernel Isomap. 2006,	1
1879	Geodesic Nonlinear Mapping Using the Neural Gas Network.	
1878	Performing Text Categorization on Manifold. 2006,	1
1877	Some Results on Mean Square Error for Factor Score Prediction. 2006, 71, 395-409	7
1876	Learning Geodesic Metric for Out-of-Sample Extension of Isometric Embedding. 2006,	
1875	Kernel Wiener Filter with Distance Constraint.	1
1874	Impact of Dynamics on Subspace Embedding and Tracking of Sequences.	1
1873	Some Results on Mean Square Error for Factor Score Prediction. 2006, 71, 395-409	125
1872	Histologic characterization of DCE-MRI breast tumors with dimensional data reduction. 2006,	
1871	Learning Kernels from Distance Constraints. 2006, 2, 441-451	
1870	Embedding of time series data by using dynamic time warping distances. 2006, 37, 1-9	6
1869	Automatic dimensionality selection from the scree plot via the use of profile likelihood. 2006, 51, 918-930	188



1868	Non-parametric and light-field deformable models. <b>2006</b> , 104, 16-35	3
1867	A survey of advances in vision-based human motion capture and analysis. <b>2006</b> , 104, 90-126	1558
1866	Manifold based analysis of facial expression. <b>2006</b> , 24, 605-614	117
1865	Face recognition using discriminant locality preserving projections. <b>2006</b> , 24, 239-248	204
1864	Discriminant common vectors versus neighbourhood components analysis and Laplacianfaces: A comparative study in small sample size problem. <b>2006</b> , 24, 249-262	23
1863	Supervised locality pursuit embedding for pattern classification. <b>2006</b> , 24, 819-826	10
1862	Visual exploratory analysis of DCE-MRI data in breast cancer by dimensional data reduction: A comparative study. <b>2006</b> , 1, 56-63	11
1861	New approaches for representing, analyzing and visualizing complex kinetic transformations. <b>2006</b> , 31, 41-50	5
1860	Boosted discriminant projections for nearest neighbor classification. <b>2006</b> , 39, 164-170	16
1859	Locally linear metric adaptation with application to semi-supervised clustering and image retrieval. <b>2006</b> , 39, 1253-1264	32
1858	A spectral approach to learning structural variations in graphs. <b>2006</b> , 39, 1188-1198	21
1857	Discriminant neighborhood embedding for classification. <b>2006</b> , 39, 2240-2243	43
1856	Selection of the optimal parameter value for the Isomap algorithm. <b>2006</b> , 27, 968-979	80
1855	The Cauchy-Schwarz divergence and Parzen windowing: Connections to graph theory and Mercer kernels. <b>2006</b> , 343, 614-629	49
1854	Local multidimensional scaling. <b>2006</b> , 19, 889-99	134
1853	Online data visualization using the neural gas network. <b>2006</b> , 19, 923-34	41
1852	Spectral feature projections that maximize Shannon mutual information with class labels. <b>2006</b> , 39, 1241-1252	48
1851	Gaussian fields for semi-supervised regression and correspondence learning. <b>2006</b> , 39, 1864-1875	17

1850	Formulating LLE using alignment technique. <b>2006</b> , 39, 2233-2235	21
1849	Data-driven facial animation based on manifold Bayesian regression. <b>2006</b> , 7, 556-563	3
1848	Ensemble learning HMM for motion recognition and retrieval by Isomap dimension reduction. <b>2006</b> , 7, 2063-2072	5
1847	Unsupervised Learning of Image Manifolds by Semidefinite Programming. <b>2006</b> , 70, 77-90	369
1846	Representation Analysis and Synthesis of Lip Images Using Dimensionality Reduction. <b>2006</b> , 67, 297-312	16
1845	Geodesic Remeshing Using Front Propagation. <b>2006</b> , 69, 145-156	118
1844	Facial Expression Synthesis Using Manifold Learning and Belief Propagation. <b>2006</b> , 10, 1193-1200	5
1843	PARAMAP vs. Isomap: A Comparison of Two Nonlinear Mapping Algorithms. <b>2006</b> , 23, 221-254	20
1842	Dynamic stills and clip trailers. <b>2006</b> , 22, 642-652	25
1841	Robust locally linear embedding. <b>2006</b> , 39, 1053-1065	117
1840	Nonlinear discriminant mapping using the Laplacian of a graph. <b>2006</b> , 39, 156-159	2
1839	The LLE and a linear mapping. <b>2006</b> , 39, 1799-1804	11
1838	Fast multiscale clustering and manifold identification. <b>2006</b> , 39, 1876-1891	46
1837	Diffusion maps. <b>2006</b> , 21, 5-30	1483
1836	Bernoulli Embedding Model and Its Application in Texture Mapping. <b>2006</b> , 21, 199-203	
1835	Using DragPushing to Refine Concept Index for Text Categorization. <b>2006</b> , 21, 592-596	1
1834	Sensor band selection for multispectral imaging via average normalized information. <b>2006</b> , 1, 109-121	9
1833	From crawling to cognition: analyzing the dynamical interactions among populations of neurons. <b>2006</b> , 16, 135-44	28

1832 Olfactory coding: when smells collide. **2006**, 16, R1000-3

1831 Local dimensionality reduction and supervised learning within natural clusters for biomedical data analysis. **2006**, 10, 533-9

6

1830 From outliers to prototypes: Ordering data. **2006**, 69, 1608-1618

58

1829 A new nonlinear feature extraction method for face recognition. **2006**, 69, 949-953

16

1828 Kernel extrapolation. **2006**, 69, 721-729

9

1827 ISOLLE: LLE with geodesic distance. **2006**, 69, 1768-1771

25

1826 Locally principal component learning for face representation and recognition. **2006**, 69, 1697-1701

9

1825 Spectral embedding finds meaningful (relevant) structure in image and microarray data. **2006**, 7, 74

10

1824 Multigrid multidimensional scaling. **2006**, 13, 149-171

62

1823 A simple set of numerical invariants for the analysis of images. **2006**, 16, 240-248

1

1822 Decision-making using multi-attributed alternatives: Raiffa's contributions in the context of 21st century decision problems. **2006**, 14, 161-168

1821 Incremental Construction of Neighborhood Graphs for Nonlinear Dimensionality Reduction. **2006**,

1

1820 Combining nonlinear dimensionality reduction with wavelet network to solve EEG inverse problem. **2006**, 2006, 4245-8

3

1819 Object Tracking Using Globally Coordinated Nonlinear Manifolds. **2006**,

1818 .

1

1817 Isomap Based on the Image Euclidean Distance. **2006**,

4

1816 Clustering-based Locally Linear Embedding. **2006**,

7

1815 Robust Nonlinear Dimensionality Reduction for Manifold Learning. **2006**,

4

1814	Energy Map: Mining Wireless Sensor Network Data. <b>2006,</b>	2
1813	A Semi-supervised SVM for Manifold Learning. <b>2006,</b>	
1812	Image Tangent Space for Image Retrieval. <b>2006,</b>	1
1811	Neighborhood Discriminant Projection for Face Recognition. <b>2006,</b>	
1810	Functional feature embedded space mapping of fMRI data. <b>2006,</b> 2006, 1014-7	1
1809	Regularized Locality Preserving Learning of Pre-Image Problem in Kernel Principal Component Analysis. <b>2006,</b>	2
1808	Use of microarray analysis to dissect the plant defense response. <b>2007,</b> 354, 121-30	3
1807	Learning sparse metrics via linear programming. <b>2006,</b>	33
1806	Locally adaptive classification piloted by uncertainty. <b>2006,</b>	10
1805	Unsupervised learning from a corpus for shape-based 3D model retrieval. <b>2006,</b>	19
1804	Nonlocal estimation of manifold structure. <b>2006,</b> 18, 2509-28	23
1803	Learning image manifolds by semantic subspace projection. <b>2006,</b>	20
1802	Appearance manifolds for modeling time-variant appearance of materials. <b>2006,</b> 25, 754-761	51
1801	Appearance-space texture synthesis. <b>2006,</b>	45
1800	A duality view of spectral methods for dimensionality reduction. <b>2006,</b>	18
1799	Appearance-space texture synthesis. <b>2006,</b> 25, 541-548	142
1798	Ranking on graph data. <b>2006,</b>	60
1797	Local distance preservation in the GP-LVM through back constraints. <b>2006,</b>	103

1796	Kernel information embeddings. <b>2006,</b>	7
1795	Semi-supervised nonlinear dimensionality reduction. <b>2006,</b>	57
1794	Regularized Local Discriminant Embedding.	
1793	Appearance manifolds for modeling time-variant appearance of materials. <b>2006,</b>	9
1792	Kalman filtering for disease-state estimation from microarray data. <b>2006,</b> 22, 3047-53	4
1791	Improved Locally Linear Embedding Through New Distance Computing. <b>2006,</b> 1326-1333	4
1790	Learning a Sparse Representation from Multiple Still Images for On-Line Face Recognition in an Unconstrained Environment. <b>2006,</b>	4
1789	Artificial Neural Networks in Pattern Recognition. <b>2006,</b>	1
1788	Temporal dynamics of 2D and 3D shape representation in macaque visual area V4. <b>2006,</b> 23, 749-63	17
1787	Reduction of the number of spectral bands in Landsat images: a comparison of linear and nonlinear methods. <b>2006,</b> 45, 067002	5
1786	Appearance-Based Topological Bayesian Inference for Loop-Closing Detection in a Cross-Country Environment. <b>2006,</b> 25, 953-983	11
1785	Effective and efficient dimensionality reduction for large-scale and streaming data preprocessing. <b>2006,</b> 18, 320-333	93
1784	Tensor Voting: A Perceptual Organization Approach to Computer Vision and Machine Learning. <b>2006,</b> 2, 1-136	40
1783	Generalized multidimensional scaling: a framework for isometry-invariant partial surface matching. <b>2006,</b> 103, 1168-72	343
1782	Performance Evaluation of Subspace-based Algorithm in Selecting Differentially Expressed Genes and Classification of Tissue Types from Microarray Data. <b>2006,</b>	2
1781	A Version of Isomap with Explicit Mapping. <b>2006,</b>	1
1780	Risk Adjusted Identification of Wiener Systems. <b>2006,</b>	5
1779	Geodesic Nonlinear Mapping Using the Neural Gas Network. <b>2006,</b>	7

1778 Quotient Set-based Nonlinear Manifold for Image Restoration. **2006,**

1777 Statistics and Analysis of Shapes. **2006,**

10

1776 A Novel Visual Perception Framework. **2006,**

1

1775 Non-Gaussian State Estimation in an Outdoor Decentralised Sensor Network. **2006,**

3

1774 .

1773 Two Dimensional Laplacianfaces Method for Face Recognition. **2006,** 852-861

1

1772 Improved Nonlinear Manifold Learning for Land Cover Classification via Intelligent Landmark Selection. **2006,**

22

1771 All-optical nanoscale pH meter TB a plasmonic nanodevice with quantifiable output. **2006,**

1770 Variational Local Structure Estimation for Image Super-Resolution. **2006,**

3

1769 Segmentation and Probabilistic Registration of Articulated Body Models. **2006,**

9

1768 Application of compression-based distance measures to protein sequence classification: a methodological study. **2006,** 22, 407-12

52

1767 Improving classification precision by implicit kernels motivated by manifold learning. **2006,**

1766 An Approximate Version of Kernel PCA. **2006,**

2

1765 An Incremental Algorithm Based on K Nearest Neighbor Projection for Nonlinear Dimensionality Reduction. **2006,**

1764 An Improved Manifold Learning Algorithm for Data Visualization. **2006,**

4

1763 Visualization of Non-vectorial Data Using Twin Kernel Embedding. **2006,**

5

1762 Face Recognition Based on Extended Locally Linear Embedding. **2006,**

2

1761 Finding Minimal Parameterizations of Cylindrical Image Manifolds.

5

1760	Image Manifold Interpolation using Free-Form Deformations. <b>2006</b> ,	6
1759	Nonlinear Dimensionality Reduction on 3-D Protein Image Analysis. <b>2006</b> ,	
1758	Face Recognition using Laplacian+OPRA-faces. <b>2006</b> ,	2
1757	Analyzing Human Movements from Silhouettes Using Manifold Learning. <b>2006</b> ,	15
1756	Articulated Motion and Deformable Objects. <b>2006</b> ,	
1755	Plant-Pathogen Interactions. <b>2006</b> ,	2
1754	SPHERICAL SELF-ORGANIZING FEATURE MAP: AN INTRODUCTORY REVIEW. <b>2006</b> , 16, 3195-3206	9
1753	Computer Vision $\square$ ECCV 2006. <b>2006</b> ,	11
1752	Feature representation based on intrinsic structure discovery in high dimensional space.	5
1751	. <b>2006</b> ,	3
1750	Local Discriminant Embedding with Tensor Representation. <b>2006</b> ,	5
1749	A Comprehensive Empirical Study on Linear Subspace Methods for Facial Expression Analysis.	6
1748	Bildverarbeitung fñdie Medizin 2006. <b>2006</b> ,	
1747	Local Discriminant Analysis. <b>2006</b> ,	4
1746	Nonlinear Trajectory Generation for Autonomous Vehicles via Parametrized Maneuver Classes. <b>2006</b> , 29, 289-302	44
1745	11 Applications of Multidimensional Scaling in Psychometrics. <b>2006</b> , 26, 359-400	5
1744	Research on Float-Coded Genetic Algorithm Based on Wavelet Denoising Mutation. <b>2007</b> ,	1
1743	An Energy Minimisation Approach to Attributed Graph Regularisation. <b>2007</b> , 71-86	

1742	Human-Centered Visualization Environments. <b>2007</b> ,	24
1741	Face Recognition Based on an Alternative Formulation of Orthogonal LPP. <b>2007</b> ,	0
1740	Local and Weighted Maximum Margin Discriminant Analysis. <b>2007</b> ,	10
1739	A Comparative Study of Linear and Nonlinear Dimensionality Reduction for Speaker Identification. <b>2007</b> ,	4
1738	Automatic Emotion Prediction of Song Excerpts: Index Construction, Algorithm Design, and Empirical Comparison. <b>2007</b> , 36, 281-299	30
1737	. <b>2007</b> ,	17
1736	Shape Priors using Manifold Learning Techniques. <b>2007</b> ,	44
1735	A Cognitive Cross-Layer Architecture for Next-Generation Tactical Networks. <b>2007</b> ,	5
1734	Linearization of Isomap. <b>2007</b> ,	1
1733	DT-CWT Feature Based Face Recognition Using Supervised Kernel ONPP. <b>2007</b> ,	1
1732	Coarse-grained dynamics of an activity bump in a neural field model. <b>2007</b> , 20, 2127-2146	36
1731	Defining functional distance using manifold embeddings of gene ontology annotations. <b>2007</b> , 104, 11334-9	30
1730	Life System Modeling and Simulation. <b>2007</b> ,	3
1729	. <b>2007</b> ,	2
1728	Robust Spectral 3D-Bodypart Segmentation Along Time. <b>2007</b> , 196-211	1
1727	Machine Learning for Multimedia Content Analysis. <b>2007</b> ,	1
1726	Gait Analysis for Human Identification through Manifold Learning and HMM. <b>2007</b> ,	
1725	Non-linear Methods for the Analysis of Metabolic Profiles. <b>2007</b> , 201-226	3



1724	Discriminant Additive Tangent Spaces for Object Recognition. <b>2007</b> ,	1
1723	An efficient method for processing a large-scale motion database in agriculture informatisation. <b>2007</b> , 50, 573-581	
1722	Locally Linear Embedding based on Image Euclidean Distance. <b>2007</b> ,	
1721	Unsupervised morphing by conjugate image processing. <b>2007</b> , 43, 1137	2
1720	Spectral regression. <b>2007</b> ,	56
1719	Query-sensitive embeddings. <b>2007</b> , 32, 8	9
1718	Regression on manifolds using kernel dimension reduction. <b>2007</b> ,	45
1717	Local learning projections. <b>2007</b> ,	29
1716	Neighbor search with global geometry. <b>2007</b> ,	13
1715	AppWand. <b>2007</b> ,	6
1714	3D model representation using adaptive volumetric extended Gaussian image. <b>2007</b> ,	2
1713	Learning semantic categories for 3D model retrieval. <b>2007</b> ,	18
1712	Embracing Statistical Challenges in the Information Technology Age. <b>2007</b> , 49, 237-248	13
1711	High throughput analysis of breast cancer specimens on the grid. <b>2007</b> , 10, 617-25	20
1710	Developing the promise of nutrigenomics through complete science and international collaborations. <b>2007</b> , 60, 209-223	16
1709	Neural ISOMAP. <b>2007</b> ,	
1708	An Evaluated Model Based on the Variance of Distance Ratios for Nonlinear Dimensionality Reduction Algorithms. <b>2007</b> ,	1
1707	A new method of distance estimation for robot localization in real environment based on manifold learning. <b>2007</b> ,	1

1706	A Unified Perspective on Advances of Independent Subspaces: Basic, Temporal, and Local Structures. <b>2007,</b>	
1705	Conformal Embedding Analysis with Local Graph Modeling on the Unit Hypersphere. <b>2007,</b>	23
1704	Unsupervised Nonlinear Manifold Learning. <b>2007,</b>	
1703	. <b>2007,</b>	5
1702	Feature Extraction by Maximizing the Average Neighborhood Margin. <b>2007,</b>	55
1701	A VQ-Based Demosaicing by Self-Similarity. <b>2007,</b>	1
1700	An Extension of Locally Linear Embedding for Pose Estimation of 3D Object. <b>2007,</b>	2
1699	Projection onto a Shape Manifold for Image Segmentation with Prior. <b>2007,</b>	8
1698	Unsupervised Nonlinear Dimensionality Reduction Based on Tensor Tangent Space Alignment. <b>2007,</b>	1
1697	Constrained planar remeshing for architecture. <b>2007,</b>	18
1696	Non-isometric manifold learning. <b>2007,</b>	38
1695	Maximum variance projections for face recognition. <b>2007,</b> 46, 067206	8
1694	Manifold reconstruction in arbitrary dimensions using witness complexes. <b>2007,</b>	14
1693	Dirichlet aggregation. <b>2007,</b>	8
1692	Ranking with semi-supervised distance metric learning and its application to housing potential estimation. <b>2007,</b>	
1691	Parametric embedding for class visualization. <b>2007,</b> 19, 2536-56	30
1690	Surface parameterization via aligning optimal local flattening. <b>2007,</b>	6
1689	Application of dimensionality reduction techniques to HRTFS for interactive virtual environments. <b>2007,</b>	6

1688 Diffusion maps-based image clustering. **2007**,

1687 Variable-free exploration of stochastic models: a gene regulatory network example. **2007**, 126, 155103 46

1686 Text Classification Based on Nonlinear Dimensionality Reduction Techniques and Support Vector Machines. **2007**, 3

1685 AppWand. **2007**, 26, 54 62

1684 Optimal dimensionality of metric space for classification. **2007**, 20

1683 Improved locally linear embedding and its application on multi-pose ear recognition. **2007**, 4

1682 Discriminative Gaussian process latent variable model for classification. **2007**, 64

1681 A new approach of data clustering using a flock of agents. **2007**, 15, 345-67 21

1680 Map building without localization by dimensionality reduction techniques. **2007**, 8

1679 Behavior monitoring through automatic analysis of video sequences. **2007**,

1678 Recognising and Modelling Landmarks to Close Loops in Outdoor SLAM. **2007**, 25

1677 A learning framework for generic sensory-motor maps. **2007**, 8

1676 Low Dimensional Representations of MEG/EEG Data Using Laplacian Eigenmaps. **2007**, 7

1675 Comparison of Visualization Methods for an Atlas of Gene Expression Data Sets. **2007**, 6, 139-154 25

1674 A data-dependent distance measure for transductive instance-based learning. **2007**, 1

1673 Systems Biology. **2007**, 4

1672 Query Driven Localized Linear Discriminant Models for Head Pose Estimation. **2007**, 22

1671 . **2007**, 89

1670	. <b>2007</b> ,	4
1669	PATCH-BASED NONLOCAL DENOISING FOR MRI AND ULTRASOUND IMAGES. <b>2007</b> ,	
1668	Regularized Mixed Dimensionality and Density Learning in Computer Vision. <b>2007</b> ,	1
1667	Selection of Best Projection from 3D Star Coordinate Projection Space using Energy Minimization and Topology Preserving Mapping. <b>2007</b> ,	1
1666	AUTOMATED GRADING OF PROSTATE CANCER USING ARCHITECTURAL AND TEXTURAL IMAGE FEATURES. <b>2007</b> ,	93
1665	Use of Dimensionality Reduction for Intrusion Detection. <b>2007</b> , 306-320	1
1664	A New Nonlinear Dimensionality Reduction Method with Application to Hyperspectral Image Analysis. <b>2007</b> ,	7
1663	Multiresolution manifold learning for classification of hyperspectral data. <b>2007</b> ,	
1662	Developmental learning for avoiding dynamic obstacles using attention. <b>2007</b> ,	2
1661	Dimensionality Reduction of Hyperspectral Data Based on ISOMAP Algorithm. <b>2007</b> ,	2
1660	Human Interaction Representation and Recognition Through Motion Decomposition. <b>2007</b> , 14, 952-955	29
1659	Articulated Shape Matching Using Locally Linear Embedding and Orthogonal Alignment. <b>2007</b> ,	9
1658	Incremental Hessian Locally Linear Embedding algorithm. <b>2007</b> ,	5
1657	Dimensionality Reduction and Clustering on Statistical Manifolds. <b>2007</b> ,	8
1656	Semi-supervised Learning on Semantic Manifold for Event Analysis in Dynamic Scenes. <b>2007</b> ,	
1655	Natural Image Matting Based on Neighbor Embedding. <b>2007</b> , 449-460	5
1654	Contextual Distance for Data Perception. <b>2007</b> ,	13
1653	Iterative Locality Preserving Projection for Image Retrieval. <b>2007</b> ,	

1652	Biased Manifold Embedding: A Framework for Person-Independent Head Pose Estimation. 2007,	89
1651	Validation of low-dimensional models using diffusion maps and harmonic averaging. 2007,	1
1650	. 2007,	14
1649	Estimating Cluster Overlap on Manifolds and its Application to Neuropsychiatric Disorders. 2007,	4
1648	Parallel and Distributed Audio Concealment using Nonlocal Sparse Representations. 2007,	1
1647	Connecting the Out-of-Sample and Pre-Image Problems in Kernel Methods. 2007,	30
1646	Speaker Accent Classification Using Distance Metric Learning Approach. 2007,	2
1645	Nonlinear Dimensionality Reduction. 2007,	580
1644	MULTIRESOLUTION IMAGE PERCEPTUAL GROUPING USING TOPOLOGICAL STRUCTURE EMBEDDED IN MANIFOLD. 2007, 05, 39-49	2
1643	DT-CWT Feature Combined with ONPP for Face Recognition. 2007, 1058-1067	2
1642	Dimensionality reduction of hyperspectral imagery using improved locally linear embedding. 2007, 1, 013509	39
1641	Human Motion Recognition Using Isomap and Dynamic Time Warping. 2007, 285-298	44
1640	Localized versus Locality-Preserving Subspace Projections for Face Recognition. 2007, 2007, 1-8	3
1639	Challenges for Computational Intelligence. 2007,	18
1638	A mathematical tool for exploring the dynamics of biological networks. 2007, 104, 19169-74	34
1637	Modeling View and Posture Manifolds for Tracking. 2007,	69
1636	Diffusion Maps Segmentation of Magnetic Resonance Q-Ball Imaging. 2007,	1
1635	Locally Constrained Support Vector Clustering. 2007,	8

1634	Dimensionality Reduction. <b>2007</b> ,	7
1633	Mining and visualising wireless sensor network data. <b>2007</b> , 2, 350	8
1632	Exploiting redundancy for flexible behavior: unsupervised learning in a modular sensorimotor control architecture. <b>2007</b> , 114, 1015-1046	55
1631	Probabilistic and numerical validation of homology computations for nodal domains. <b>2007</b> , 13, 60-74	9
1630	The meaning of action: a review on action recognition and mapping. <b>2007</b> , 21, 1473-1501	96
1629	Visual analysis of multidimensional data using fast MDS algorithm. <b>2007</b> ,	2
1628	The Intrinsic Dimensionality of Spectropolarimetric Data. <b>2007</b> , 660, 1690-1699	17
1627	Bayesian imitation learning in game characters. <b>2007</b> , 2, 284	8
1626	k-PCA: a semi-universal encoder for image compression. <b>2007</b> , 3, 205-220	2
1625	Kernel uncorrelated neighborhood discriminative embedding for feature extraction. <b>2007</b> , 46, 120502	
1624	Locality preserving projections as a new manifold analysis approach for robust face super-resolution. <b>2007</b> ,	1
1623	USING MANIFOLD LEARNING FOR NONLINEAR SYSTEM IDENTIFICATION. <b>2007</b> , 40, 170-175	5
1622	Multivariate Modeling and Analysis in Drug Discovery. <b>2007</b> , 3, 240-247	
1621	Local and Global Structures Preserving Projection. <b>2007</b> ,	4
1620	Person-Independent Head Pose Estimation Using Biased Manifold Embedding. <b>2007</b> , 2008,	19
1619	Using Gaussian Process Annealing Particle Filter for 3D Human Tracking. <b>2007</b> , 2008,	12
1618	Simultaneous Eye Tracking and Blink Detection with Interactive Particle Filters. <b>2007</b> , 2008,	19
1617	Alternative robust local embedding. <b>2007</b> ,	4

1616	Improved neighborhood preserving embedding approach. <b>2007</b> ,	1
1615	Auto-Associative Neural Network System for Recognition. <b>2007</b> ,	1
1614	. <b>2007</b> ,	1
1613	The algebra and statistics of generalized principal component analysis. <b>2007</b> ,	
1612	3D surface parameterization using manifold learning for medial shape representation. <b>2007</b> ,	1
1611	Multimodal image registration of ex vivo 4 Tesla MRI with whole mount histology for prostate cancer detection. <b>2007</b> ,	7
1610	Isomap Tracking with Particle Filtering. <b>2007</b> ,	1
1609	Probability-Based Locally Linear Embedding for Classification. <b>2007</b> ,	13
1608	Application of Radial Basis Function Network and Locality Preserving Projections for Face Recognition. <b>2007</b> ,	
1607	Classification by Cheeger Constant Regularization. <b>2007</b> ,	1
1606	. <b>2007</b> ,	2
1605	Orthogonal Neighborhood Preserving Embedding for Face Recognition. <b>2007</b> ,	19
1604	Learning Representation and Control in Markov Decision Processes: New Frontiers. <b>2007</b> , 1, 403-565	17
1603	Untangling invariant object recognition. <b>2007</b> , 11, 333-41	553
1602	Estimates of the information content and dimensionality of natural scenes from proximity distributions. <b>2007</b> , 24, 922-41	40
1601	Polarization components analysis for invariant discrimination. <b>2007</b> , 46, 8364-73	18
1600	Enhancing Human Face Detection by Resampling Examples Through Manifolds. <b>2007</b> , 37, 1017-1028	29
1599	Learning to transform time series with a few examples. <b>2007</b> , 29, 1759-75	12

1598	Globally maximizing, locally minimizing: unsupervised discriminant projection with applications to face and palm biometrics. <b>2007</b> , 29, 650-64	385
1597	Surface deformation models for nonrigid 3D shape recovery. <b>2007</b> , 29, 1481-7	89
1596	Clustering and embedding using commute times. <b>2007</b> , 29, 1873-90	152
1595	Orthogonal neighborhood preserving projections: a projection-based dimensionality reduction technique. <b>2007</b> , 29, 2143-56	224
1594	Information discriminant analysis: feature extraction with an information-theoretic objective. <b>2007</b> , 29, 1394-407	67
1593	. <b>2007</b> , 29, 40-51	2177
1592	Transferring of speech movements from video to 3D face space. <b>2007</b> , 13, 58-69	9
1591	Visual Clustering of Complex Network Based on Nonlinear Dimension Reduction. <b>2006</b> , 555-560	
1590	Efficient Feature Extraction for Image Classification. <b>2007</b> ,	2
1589	Distance Preserving Dimension Reduction Using the QR Factorization or the Cholesky Factorization. <b>2007</b> ,	1
1588	Simultaneous Learning of Nonlinear Manifold and Dynamical Models for High-dimensional Time Series. <b>2007</b> ,	34
1587	Extensions of Manifold Learning Algorithms in Kernel Feature Space. <b>2007</b> , 449-454	
1586	Information Systems Security. <b>2007</b> ,	
1585	. <b>2007</b> ,	5
1584	Improved Locally Linear Embedding by Cognitive Geometry. <b>2007</b> , 317-325	
1583	Nutrigenomics: concepts and applications to pharmacogenomics and clinical medicine. <b>2007</b> , 8, 369-90	32
1582	Spectral Regression: A Unified Approach for Sparse Subspace Learning. <b>2007</b> ,	130
1581	Manifold learning applied on EEG signal of the epileptic patients for detection of normal and pre-seizure States. <b>2007</b> , 2007, 5489-92	6



1580	. 2007,	22
1579	Mesh parameterization. 2007,	124
1578	Multilevel Belief Propagation for Fast Inference on Markov Random Fields. 2007,	5
1577	Representations of Streetscape Perceptions Through Manifold Learning in the Space of Hough Arrays. 2007,	1
1576	Local and Global Structures Preserving Projection. 2007,	1
1575	2D-NPP: An Extension of Neighborhood Preserving Projection. 2007,	1
1574	Classification of Weakly-Labeled Data with Partial Equivalence Relations. 2007,	1
1573	. 2007,	9
1572	Articulated Shape Matching by Robust Alignment of Embedded Representations. 2007,	9
1571	Tensor Space Learning for Analyzing Activity Patterns from Video Sequences. 2007,	8
1570	Hierarchical Structuring of Data on Manifolds. 2007,	2
1569	Incremental Line Tangent Space Alignment Algorithm. 2007,	6
1568	Two manifold learning techniques for sensor localization. 2007,	1
1567	Approximate Sampling Method for Locally Linear Embedding. 2007,	
1566	Marginal Fisher analysis and its variants for human gait recognition and content- based image retrieval. 2007, 16, 2811-21	202
1565	. 2007,	
1564	A Rank Minimization Approach to Video Inpainting. 2007,	31
1563	Gait Analysis For Human Identification Through Manifold Learning and HMM. 2007,	1

1562 Estimating geodesic distances on locally linear patches. **2007,**

1561 DD-HDS: A method for visualization and exploration of high-dimensional data. **2007, 18, 1265-79**

44

1560 Face Recognition Using Hierarchical Isomap. **2007,**

2

1559 Spectral Regression for Efficient Regularized Subspace Learning. **2007,**

220

1558 Learning Repetitive Patterns for Classifying Non-Rigidly Deforming Texture Surfaces. **2007,**

1557 Robust Super-Resolution of Face Images by Iterative Compensating Neighborhood Relationships. **2007,**

7

1556 IMD-Isomap for Data Visualization and Classification. **2007,**

4

1555 Spatially Coherent Nonlinear Dimensionality Reduction and Segmentation of Hyperspectral Images. **2007, 4, 206-210**

84

1554 Manifold clustering via energy minimization. **2007,**

6

1553 Manifold of Facial Expressions for Tactile Perception. **2007,**

2

1552 Pruning Neighborhood Graph for Geodesic Distance Based Semi-Supervised Classification. **2007,**

1551 Dimensionality reduction techniques for data exploration. **2007,**

12

1550 CLDA: Feature Selection for Text Categorization Based on Constrained LDA. **2007,**

5

1549 Interactive image segmentation via adaptive weighted distances. **2007, 16, 1046-57**

111

1548 Enhanced prediction of protein cellular localization sites with genetic algorithm optimal kernel projection analysis. **2007,**

1547 Image Clustering Using Visual and Text Keywords. **2007,**

3

1546 An application study of manifold learning-ranking techniques in face recognition. **2007,**

0

1545 Classification of potential nuclei in prostate histology images using shape manifold learning. **2007,**

2

1544	Manifold Learning using Growing Locally Linear Embedding. <b>2007</b> ,	2
1543	A WordNet-driven approach to vegetable supply chain domain concepts acquisition. <b>2007</b> , 50, 869-877	
1542	Molecular basis sets - a general similarity-based approach for representing chemical spaces. <b>2007</b> , 47, 1328-40	13
1541	. <b>2007</b> , 17, 468-477	11
1540	Intrinsic Dimensionality Estimation with Neighborhood Convex Hull. <b>2007</b> ,	
1539	Learning Out-Of Sample Mapping in Non-Vectorial Data Reduction using Constrained Twin Kernel Embedding. <b>2007</b> ,	
1538	Learning a Spatially Smooth Subspace for Face Recognition. <b>2007</b> ,	196
1537	A Comparison of Unsupervised Dimension Reduction Algorithms for Classification. <b>2007</b> ,	
1536	Self-taught learning. <b>2007</b> ,	695
1535	Real-time Body Tracking Using a Gaussian Process Latent Variable Model. <b>2007</b> ,	34
1534	Recognizing Human Activities from Silhouettes: Motion Subspace and Factorial Discriminative Graphical Model. <b>2007</b> ,	104
1533	Laplacian PCA and Its Applications. <b>2007</b> ,	32
1532	Advances in Nonlinear Speech Processing. <b>2007</b> ,	
1531	Nonlinear dimensionality reduction: Alternative ordination approaches for extracting and visualizing biodiversity patterns in tropical montane forest vegetation data. <b>2007</b> , 2, 138-149	43
1530	Identity-Based Cryptography for Grid. <b>2007</b> ,	3
1529	A generic framework for tracking using particle filter with dynamic shape prior. <b>2007</b> , 16, 1370-82	43
1528	Learning and matching of dynamic shape manifolds for human action recognition. <b>2007</b> , 16, 1646-61	104
1527	Active-contour-based image segmentation using machine learning techniques. <b>2007</b> , 10, 891-9	8

1526	Non-linear Dimensionality Reduction Procedures for Certain Large-Dimensional Multi-objective Optimization Problems: Employing Correntropy and a Novel Maximum Variance Unfolding. <b>2007</b> , 772-787	55
1525	Manifold Analysis in Reconstructed State Space for Nonlinear Signal Classification. <b>2007</b> , 930-937	4
1524	Chemical Diversity: Definition and Quantification. <b>2007</b> , 137-160	
1523	Calculation of the free energy and cooperativity of protein folding. <b>2007</b> , 2, e446	23
1522	Nonlinear Dimensionality Reduction using Approximate Nearest Neighbors. <b>2007</b> ,	
1521	Distance Preserving Dimension Reduction for Manifold Learning. <b>2007</b> ,	8
1520	Probabilistic validation of homology computations for nodal domains. <b>2007</b> , 17,	10
1519	Sequential nonlinear manifold learning. <b>2007</b> , 11, 203-222	1
1518	Inverting mappings from smooth paths through $R_n$ to paths through $R_m$ : A technique applied to recovering articulation from acoustics. <b>2007</b> , 49, 361-383	9
1517	Classifiers for driver activity monitoring. <b>2007</b> , 15, 51-67	27
1516	Adaptive clustering in wireless sensor networks by mining sensor energy data. <b>2007</b> , 30, 2968-2975	28
1515	Continuum Isomap for manifold learnings. <b>2007</b> , 52, 184-200	13
1514	High-dimensional data clustering. <b>2007</b> , 52, 502-519	216
1513	A methodology for developing Bayesian networks: An application to information technology (IT) implementation. <b>2007</b> , 179, 234-252	53
1512	Kernel PCA for novelty detection. <b>2007</b> , 40, 863-874	421
1511	Region partition and feature matching based color recognition of tongue image. <b>2007</b> , 28, 11-19	41
1510	Robust kernel Isomap. <b>2007</b> , 40, 853-862	95
1509	Hallucinating faces: LPH super-resolution and neighbor reconstruction for residue compensation. <b>2007</b> , 40, 3178-3194	101

1508	Joint low-rank approximation for extracting non-Gaussian subspaces. <b>2007</b> , 87, 1890-1903	9
1507	Gabor feature-based face recognition using supervised locality preserving projection. <b>2007</b> , 87, 2473-2483	77
1506	Shared environment representation for a human-robot team performing information fusion. <b>2007</b> , 24, 911-942	21
1505	Fast and reliable analysis of molecular motion using proximity relations and dimensionality reduction. <b>2007</b> , 67, 897-907	36
1504	Comparison of quantitative methods for cell-shape analysis. <b>2007</b> , 227, 140-56	181
1503	FLAME, a novel fuzzy clustering method for the analysis of DNA microarray data. <b>2007</b> , 8, 3	300
1502	Techniques for extracting single-trial activity patterns from large-scale neural recordings. <b>2007</b> , 17, 609-18	121
1501	A dimensionality reduction algorithm and its application for interactive visualization. <b>2007</b> , 18, 48-70	5
1500	Complexity of type 2 diabetes mellitus data sets emerging from nutrigenomic research: a case for dimensionality reduction?. <b>2007</b> , 622, 19-32	19
1499	2D-LPP: A two-dimensional extension of locality preserving projections. <b>2007</b> , 70, 912-921	122
1498	Robust self-tuning semi-supervised learning. <b>2007</b> , 70, 2931-2939	14
1497	Variants of unsupervised kernel regression: General cost functions. <b>2007</b> , 70, 1289-1303	16
1496	Face recognition based on orthogonal discriminant locality preserving projections. <b>2007</b> , 70, 1543-1546	69
1495	A circuit framework for robust manifold learning. <b>2007</b> , 71, 323-332	4
1494	On the Estimation of Differential Entropy From Data Located on Embedded Manifolds. <b>2007</b> , 53, 2330-2341	29
1493	Denoising aerial gamma-ray surveying through non-linear dimensionality reduction. <b>2007</b> , 24, 849-861	3
1492	Semisupervised visualization of high-dimensional data. <b>2007</b> , 17, 612-620	
1491	Sample based 3D face reconstruction from a single frontal image by adaptive locally linear embedding. <b>2007</b> , 8, 550-558	9

1490	Estimating the number of pure chemical components in a mixture by maximum likelihood. <b>2007</b> , 21, 24-34	20
1489	Motion learning-based framework for unarticulated shape animation. <b>2007</b> , 23, 753-761	2
1488	Single frame image super-resolution: should we process locally or globally?. <b>2007</b> , 18, 123-152	13
1487	Binet-Cauchy Kernels on Dynamical Systems and its Application to the Analysis of Dynamic Scenes. <b>2007</b> , 73, 95-119	81
1486	Separating the articles of authors with the same name. <b>2007</b> , 72, 281-290	30
1485	A fast and effective method to find correlations among attributes in databases. <b>2007</b> , 14, 367-407	26
1484	Retrograde adaptive resonance theory based on the role of nitric oxide in long-term potentiation. <b>2007</b> , 23, 129-41	3
1483	Online-learning and Attention-based Approach to Obstacle Avoidance Using a Range Finder. <b>2007</b> , 50, 219-239	7
1482	Analysis of an alignment algorithm for nonlinear dimensionality reduction. <b>2007</b> , 47, 873-885	7
1481	A new algorithm of non-Gaussian component analysis with radial kernel functions. <b>2007</b> , 59, 57-75	15
1480	Nonlinear dimensionality reduction and data visualization: A review. <b>2007</b> , 4, 294-303	31
1479	Application of local linear embedding to nonlinear exploratory latent structure analysis. <b>2007</b> , 72, 199-225	1
1478	Nonlinear manifold learning for dynamic shape and dynamic appearance. <b>2007</b> , 106, 31-46	34
1477	Face detection in gray scale images using locally linear embeddings. <b>2007</b> , 105, 1-20	12
1476	Image distance functions for manifold learning. <b>2007</b> , 25, 365-373	35
1475	Locality preserving CCA with applications to data visualization and pose estimation. <b>2007</b> , 25, 531-543	161
1474	A Riemannian approach to graph embedding. <b>2007</b> , 40, 1042-1056	67
1473	Neighborhood discriminant projection for face recognition. <b>2007</b> , 28, 1156-1163	19

1472	Sensor noise suppression. <b>2008</b> , 168, 195-202	52
1471	Non-linear independent component analysis with diffusion maps. <b>2008</b> , 25, 226-239	106
1470	Identification of movement-related cortical potentials with optimized spatial filtering and principal component analysis. <b>2008</b> , 3, 300-304	33
1469	A seamless approach towards stochastic modeling: Sparse grid collocation and data driven input models. <b>2008</b> , 44, 298-320	13
1468	Hand gesture recognition and tracking based on distributed locally linear embedding. <b>2008</b> , 26, 1607-1620	60
1467	A survey of kernel and spectral methods for clustering. <b>2008</b> , 41, 176-190	520
1466	Texture and shape information fusion for facial expression and facial action unit recognition. <b>2008</b> , 41, 833-851	70
1465	Using locally estimated geodesic distance to optimize neighborhood graph for isometric data embedding. <b>2008</b> , 41, 2226-2236	22
1464	Beyond FCM: Graph-theoretic post-processing algorithms for learning and representing the data structure. <b>2008</b> , 41, 2630-2644	13
1463	Locally linear reconstruction for instance-based learning. <b>2008</b> , 41, 3507-3518	53
1462	Locally linear discriminant embedding: An efficient method for face recognition. <b>2008</b> , 41, 3813-3821	191
1461	Improving geodesic distance estimation based on locally linear assumption. <b>2008</b> , 29, 862-870	10
1460	A survey of browsing models for content based image retrieval. <b>2008</b> , 40, 261-284	86
1459	A Direct Locality Preserving Projections (DLPP) Algorithm for Image Recognition. <b>2008</b> , 27, 247-255	26
1458	Translated Poisson Mixture Model for Stratification Learning. <b>2008</b> , 80, 358-374	27
1457	A local linear embedding module for evolutionary computation optimization. <b>2008</b> , 14, 95-116	4
1456	Sampling and Reconstruction of Surfaces and Higher Dimensional Manifolds. <b>2008</b> , 30, 105-123	13
1455	Local versus Global in Quasi-Conformal Mapping for Medical Imaging. <b>2008</b> , 32, 293-311	4

1454	Iterative Denoising. <b>2008</b> , 23, 497-517	3
1453	Facial expression recognition and tracking for intelligent human-robot interaction. <b>2008</b> , 1, 143-157	18
1452	Face recognition using Two Dimensional Laplacian EigenMap. <b>2008</b> , 25, 616-621	1
1451	Distance-based discriminant analysis method and its applications. <b>2008</b> , 11, 227-246	5
1450	Recognising facial expressions in video sequences. <b>2008</b> , 11, 101-116	42
1449	On kernel difference-weighted k-nearest neighbor classification. <b>2008</b> , 11, 247-257	68
1448	Finding the Homology of Submanifolds with High Confidence from Random Samples. <b>2008</b> , 39, 419-441	216
1447	Reconstruction Using Witness Complexes. <b>2008</b> , 40, 325-356	21
1446	Predictive gene lists for breast cancer prognosis: a topographic visualisation study. <b>2008</b> , 1, 8	3
1445	Multi-resolution parametric synthesis of manipulative dynamic textures. <b>2008</b> , 19, 387-398	1
1444	A non-linear dimension reduction methodology for generating data-driven stochastic input models. <b>2008</b> , 227, 6612-6637	40
1443	Towards a theoretical foundation for Laplacian-based manifold methods. <b>2008</b> , 74, 1289-1308	167
1442	Multimodal biometrics using geometry preserving projections. <b>2008</b> , 41, 805-813	54
1441	A kernel optimization method based on the localized kernel Fisher criterion. <b>2008</b> , 41, 1098-1109	23
1440	Gait analysis for human identification through manifold learning and HMM. <b>2008</b> , 41, 2541-2553	57
1439	Two-dimensional Laplacianfaces method for face recognition. <b>2008</b> , 41, 3237-3243	26
1438	Application of semantic features in face recognition. <b>2008</b> , 41, 3251-3256	17
1437	Feature extraction using constrained maximum variance mapping. <b>2008</b> , 41, 3287-3294	94



1436	Multivariate statistical process control based on multiway locality preserving projections. <b>2008</b> , 18, 797-807	71
1435	Supervised kernel neighborhood preserving projections for radar target recognition. <b>2008</b> , 88, 2335-2339	12
1434	Dissimilarity cumulation theory in smoothly connected spaces. <b>2008</b> , 52, 93-115	6
1433	Similarity, kernels, and the triangle inequality. <b>2008</b> , 52, 297-303	27
1432	Visual learning and recognition of sequential data manifolds with applications to human movement analysis. <b>2008</b> , 110, 153-172	40
1431	Locally adaptive subspace and similarity metric learning for visual data clustering and retrieval. <b>2008</b> , 110, 390-402	20
1430	Kernel class-wise locality preserving projection. <b>2008</b> , 178, 1825-1835	78
1429	Advanced clustering methods for mining chemical databases in forensic science. <b>2008</b> , 90, 123-131	7
1428	Statistical monitoring of fed-batch process using dynamic multiway neighborhood preserving embedding. <b>2008</b> , 90, 195-203	61
1427	On multidimensional scaling and the embedding of self-organising maps. <b>2008</b> , 21, 160-9	39
1426	Optimizing the data-dependent kernel under a unified kernel optimization framework. <b>2008</b> , 41, 2107-2119	30
1425	Quasi-isometric parameterization for texture mapping. <b>2008</b> , 41, 1732-1743	8
1424	Orthogonal neighborhood preserving discriminant analysis for face recognition. <b>2008</b> , 41, 2045-2054	60
1423	Noisy manifold learning using neighborhood smoothing embedding. <b>2008</b> , 29, 1613-1620	18
1422	Semi-supervised sub-manifold discriminant analysis. <b>2008</b> , 29, 1806-1813	25
1421	A remark on global positioning from local distances. <b>2008</b> , 105, 9507-11	69
1420	Spectral Conformal Parameterization. <b>2008</b> , 27, 1487-1494	76
1419	A Quick Search Method for Audio Signals Based on a Piecewise Linear Representation of Feature Trajectories. <b>2008</b> , 16, 396-407	14

1418	Rapid Speaker Adaptation Using Clustered Maximum-Likelihood Linear Basis With Sparse Training Data. <b>2008</b> , 16, 607-616	6
1417	Supervised Classification of Remotely Sensed Imagery Using a Modified $k$ -NN Technique. <b>2008</b> , 46, 2112-2125	92
1416	Classification and Feature Extraction by Simplexization. <b>2008</b> , 3, 91-100	52
1415	Charting of geoelectric potential signal dynamics via geometrical techniques and its possible relation to significant earthquakes in Western Greece. <b>2008</b> , 34, 625-634	4
1414	Interactive access to large image collections using similarity-based visualization. <b>2008</b> , 19, 203-224	90
1413	Locality sensitive semi-supervised feature selection. <b>2008</b> , 71, 1842-1849	118
1412	Tensor Rank One Discriminant Analysis: A convergent method for discriminative multilinear subspace selection. <b>2008</b> , 71, 1866-1882	85
1411	Activity recognition through multi-scale motion detail analysis. <b>2008</b> , 71, 3561-3574	19
1410	Discriminant projection embedding for face and palmprint recognition. <b>2008</b> , 71, 3534-3543	26
1409	Affective interaction based on person-independent facial expression space. <b>2008</b> , 71, 1889-1901	13
1408	Mixtures of robust probabilistic principal component analyzers. <b>2008</b> , 71, 1274-1282	43
1407	Improve local tangent space alignment using various dimensional local coordinates. <b>2008</b> , 71, 3575-3581	16
1406	Null space discriminant locality preserving projections for face recognition. <b>2008</b> , 71, 3644-3649	52
1405	Diffusion Maps - a Probabilistic Interpretation for Spectral Embedding and Clustering Algorithms. <b>2008</b> , 238-260	20
1404	The Self-Organizing Maps: Background, Theories, Extensions and Applications. <b>2008</b> , 715-762	84
1403	Tracing biogeochemical processes in stream water and groundwater using non-linear statistics. <b>2008</b> , 357, 11-28	30
1402	Heteroscedastic Low-Rank Matrix Approximation by the Wiberg Algorithm. <b>2008</b> , 56, 1429-1439	5
1401	A Survey on Statistical Pattern Feature Extraction. <b>2008</b> , 701-708	6

1400	Label Propagation through Linear Neighborhoods. <b>2008</b> , 20, 55-67	379
1399	A unifying framework for spectral analysis based dimensionality reduction. <b>2008</b> ,	
1398	Kernel Methods in Finance. <b>2008</b> , 655-687	5
1397	3D Human Motion Analysis in Monocular Video: Techniques and Challenges. <b>2008</b> , 185-211	10
1396	Nonlinear Principal Component Analysis: Neural Network Models and Applications. <b>2008</b> , 44-67	65
1395	Image super-resolution as sparse representation of raw image patches. <b>2008</b> ,	71
1394	A comprehensive segmentation, registration, and cancer detection scheme on 3 Tesla in vivo prostate DCE-MRI. <b>2008</b> , 11, 662-9	18
1393	Supervised Locally Linear Embedding in face recognition. <b>2008</b> ,	2
1392	Semantic Multimedia and Ontologies. <b>2008</b> ,	15
1391	. <b>2008</b> ,	102
1390	Handbook on Information Technology in Finance. <b>2008</b> ,	11
1389	Machine Learning: The State of the Art. <b>2008</b> , 23, 49-55	12
1388	Handbook of Biometrics. <b>2008</b> ,	408
1387	Game bot identification based on manifold learning. <b>2008</b> ,	35
1386	. <b>2008</b> , 10, 578-584	297
1385	Investigating the efficacy of nonlinear dimensionality reduction schemes in classifying gene and protein expression studies. <b>2008</b> , 5, 368-84	75
1384	Combining KPCA and PSO for Pattern Denoising. <b>2008</b> ,	0
1383	Data Mining and Data Fusion for Enhanced Decision Support. <b>2008</b> , 581-608	4

1382	Artificial Neural Networks in Pattern Recognition. <b>2008</b> ,	1
1381	Intelligence and Security Informatics. <b>2008</b> ,	15
1380	Video-based face recognition based on view synthesis from 3D face model reconstructed from a single image. <b>2008</b> ,	1
1379	Activity Analysis, Summarization, and Visualization for Indoor Human Activity Monitoring. <b>2008</b> , 18, 1489-1498	87
1378	Recent advances in cluster analysis. <b>2008</b> , 1, 484-508	21
1377	Image-based human age estimation by manifold learning and locally adjusted robust regression. <b>2008</b> , 17, 1178-88	427
1376	BoostMap: an embedding method for efficient nearest neighbor retrieval. <b>2008</b> , 30, 89-104	61
1375	Gaussian process dynamical models for human motion. <b>2008</b> , 30, 283-98	515
1374	Alignment of overlapping locally scaled patches for multidimensional scaling and dimensionality reduction. <b>2008</b> , 30, 438-50	36
1373	Riemannian manifold learning. <b>2008</b> , 30, 796-809	240
1372	Model-driven segmentation of articulating humans in Laplacian Eigenspace. <b>2008</b> , 30, 1771-85	34
1371	Correlation metric for generalized feature extraction. <b>2008</b> , 30, 2229-35	77
1370	Twin kernel embedding. <b>2008</b> , 30, 1490-5	15
1369	Discriminant locally linear embedding with high-order tensor data. <b>2008</b> , 38, 342-52	217
1368	Nonlinear dimensionality reduction of data lying on the multicluster manifold. <b>2008</b> , 38, 1111-22	17
1367	Head yaw estimation from asymmetry of facial appearance. <b>2008</b> , 38, 1501-12	23
1366	Machine Recognition of Human Activities: A Survey. <b>2008</b> , 18, 1473-1488	816
1365	Semantic Subspace Projection and Its Applications in Image Retrieval. <b>2008</b> , 18, 544-548	18

1364	. <b>2008</b> , 10, 806-818	30
1363	Electricity Price Curve Modeling and Forecasting by Manifold Learning. <b>2008</b> , 23, 877-888	33
1362	Automated Generation of Reduced Stochastic Weather Models I: Simultaneous Dimension and Model Reduction for Time Series Analysis. <b>2008</b> , 6, 1125-1145	24
1361	Representation Discovery using Harmonic Analysis. <b>2008</b> , 2, 1-147	2
1360	. <b>2008</b> ,	
1359	Supervised Isomap with Dissimilarity Measures in Embedding Learning. <b>2008</b> , 389-396	3
1358	Principal Component Analysis based Feature Selection for clustering. <b>2008</b> ,	1
1357	A Novel Dimensionality Reduction Method Based on Subspace Learning for 3D Human Motion Data. <b>2008</b> ,	
1356	Face recognition based on neighbourhood discriminant preserving embedding. <b>2008</b> ,	2
1355	Nonlinear dimension reduction methods and segmentation of hyperspectral images. <b>2008</b> ,	2
1354	Feature Extraction base on Local Maximum Margin Criterion. <b>2008</b> ,	1
1353	Sorting 4DCT Images Based on Manifold Learning. <b>2008</b> ,	2
1352	Maximum Margin Embedding. <b>2008</b> ,	2
1351	Learning Adaptive Temporal Radio Maps for Signal-Strength-Based Location Estimation. <b>2008</b> , 7, 869-883	142
1350	New approach of intelligent fault diagnosis based on LLE algorithm. <b>2008</b> ,	1
1349	A nonlinear manifold learning framework for real-time motion estimation using low-cost sensors. <b>2008</b> ,	
1348	A single image based blind super-resolution approach. <b>2008</b> ,	4
1347	Apply nonlinear dimensionality reduction method to large-scale communication network traffic analysis. <b>2008</b> ,	

1346	Document clustering based on diffusion maps and a comparison of the k-means performances in various spaces. <b>2008,</b>	3
1345	Dimensionality reduction using covariance operator inverse regression. <b>2008,</b>	
1344	TOFA: Trace Oriented Feature Analysis in Text Categorization. <b>2008,</b>	1
1343	Effective video event detection via subspace projection. <b>2008,</b>	
1342	Human Centered Multimedia Computing: A New Paradigm for the Design of Assistive and Rehabilitative Environments. <b>2008,</b>	2
1341	An Efficient Algorithm of Learning the Parametric Map of Locally Linear Embedding. <b>2008,</b>	1
1340	Multimodal preserving embedding for face recognition. <b>2008,</b>	
1339	Data visualization and dimensionality reduction using kernel maps with a reference point. <b>2008,</b> 19, 1501-17	24
1338	Data Visualization With Multidimensional Scaling. <b>2008,</b> 17, 444-472	160
1337	Support Vector Machine Integrated CCA for Classification of Complex Chemical Patterns. <b>2008,</b>	
1336	Transductive Component Analysis. <b>2008,</b>	41
1335	Head pose and trajectory recovery in uncalibrated camera networks Region of interest tracking in smart home applications. <b>2008,</b>	
1334	Topology preserving non-negative matrix factorization for face recognition. <b>2008,</b> 17, 574-84	111
1333	Efficient global optimization for exponential family PCA and low-rank matrix factorization. <b>2008,</b>	2
1332	Generalized linear discriminant analysis: a unified framework and efficient model selection. <b>2008,</b> 19, 1768-82	119
1331	GLLE: An improved nonlinear manifold learning method with global topological preservation. <b>2008,</b>	
1330	Discriminant analysis for perceptually comparable classes. <b>2008,</b>	1
1329	3D caricature generation by manifold learning. <b>2008,</b>	0

1328	. 2008,	3
1327	Uncorrelated Discriminant Locality Preserving Projections. 2008, 15, 361-364	20
1326	Dimensionality reduction for text using LLE. 2008,	1
1325	Detection of seizures in EEG signal using weighted locally linear embedding and SVM classifier. 2008,	9
1324	Estimation of Subspace Arrangements with Applications in Modeling and Segmenting Mixed Data. 2008, 50, 413-458	162
1323	Adaptive Multimedia Retrieval: Retrieval, User, and Semantics. 2008,	2
1322	Semi-supervised distance metric learning for Collaborative Image Retrieval. 2008,	77
1321	An adaptive learning method for face hallucination using Locality Preserving Projections. 2008,	20
1320	An Isomap-Eigenanalysis-Regression Pose Estimation Algorithm of Three-Dimensional Object. 2008 ,	2
1319	. 2008,	
1318	Graph Laplacian tomography from unknown random projections. 2008, 17, 1891-9	109
1317	Coherent Laplacian 3-D protrusion segmentation. 2008,	4
1316	Manifold learning for 4D CT reconstruction of the lung. 2008,	21
1315	Metric Learning: A general dimension reduction framework for classification and visualization. 2008 ,	1
1314	Graph-based semi-supervised learning with manifold preprocessing for image classification. 2008,	
1313	Facial Pose and Expression Analysis Based on Locally Linear Embedding. 2008,	
1312	Class Distance Weighted Locality Preserving Projection for Automatic Age Estimation. 2008,	4
1311	Visual organization of hip joint osteoarthritis data in low-dimensional biplots. 2008,	

1310	Structure feature selection for chemical compound classification. <b>2008,</b>	1
1309	. <b>2008,</b>	2
1308	Sound source recognition for human robot interaction. <b>2008,</b>	
1307	Dimensionality Reduction for Descriptor Generation in Rushes Editing. <b>2008,</b>	
1306	. <b>2008,</b> 18, 1741-1752	21
1305	Face recognition with Neighboring Discriminant Analysis. <b>2008,</b>	
1304	Classification via semi-Riemannian spaces. <b>2008,</b>	1
1303	Speech Visualization based on Locally Linear Embedding (LLE) for the Hearing Impaired. <b>2008,</b>	4
1302	Spatial Data Analysis and Mapping Using Machine Learning Algorithms. 95-148	2
1301	. <b>2008,</b>	1
1300	Developmental Toxicology. <b>2008,</b>	
1299	Data Mining for Climate Change and Impacts. <b>2008,</b>	27
1298	Uncorrelated Locality Preserving Projections. <b>2008,</b>	
1297	Diagnosis of breast cancer tumor based on manifold learning and Support Vector Machine. <b>2008,</b>	1
1296	A modified backpropagation learning algorithm with added emotional coefficients. <b>2008,</b> 19, 1896-909	71
1295	Simultaneous dimensionality reduction and denoising of hyperspectral imagery using bivariate wavelet shrinking and principal component analysis. <b>2008,</b> 34, 447-454	42
1294	Supervised Local Linear Embedding (SLLE) for facial paralysis image sequence analysis. <b>2008,</b>	
1293	Spectral methods for semi-supervised manifold learning. <b>2008,</b>	7



1292	Simultaneous learning of a discriminative projection and prototypes for Nearest-Neighbor classification. <b>2008,</b>	20
1291	Dimensionality reduction-based phoneme recognition. <b>2008,</b>	2
1290	Manifold parametrizations by eigenfunctions of the Laplacian and heat kernels. <b>2008,</b> 105, 1803-8	87
1289	Human Ear Recognition by Computer. <b>2008,</b>	20
1288	A consensus embedding approach for segmentation of high resolution in vivo prostate magnetic resonance imagery. <b>2008,</b>	2
1287	A meta-classifier for detecting prostate cancer by quantitative integration of in vivo magnetic resonance spectroscopy and magnetic resonance imaging. <b>2008,</b>	
1286	Illumination Invariant Using DT-CWT and EMD for Face Recognition. <b>2008,</b>	
1285	Novel kinetic texture features for breast lesion classification on dynamic contrast enhanced (DCE) MRI. <b>2008,</b>	2
1284	An efficient regularized neighborhood discriminant analysis through QR decomposition. <b>2008,</b>	
1283	Multi-pose Ear Recognition Based on Improved Locally Linear Embedding. <b>2008,</b>	0
1282	Face Recognition Using Kernel-Based NPE. <b>2008,</b>	3
1281	An Efficient Spam Filtering Algorithm Based on NPE. <b>2008,</b>	1
1280	DMLLE: a large-scale dimensionality reduction method for detection of polyps in CT colonography. <b>2008,</b>	
1279	Feature selection based on scatter degree. <b>2008,</b>	0
1278	Fractional Supervised Orthogonal Local Linear Projection. <b>2008,</b>	1
1277	Face Manifold Analysis Based on LFA Features. <b>2008,</b>	
1276	Robust and Stable Locally Linear Embedding. <b>2008,</b>	1
1275	Performance Comparison of Nonlinear Dimensionality Reduction Methods for Image Data Using Different Distance Measures. <b>2008,</b>	4

1274 Gabor Feature-Based Face Recognition Using Riemannian Manifold Learning. **2008,**

1273 Discriminant simplex analysis. **2008,**

1272 Gabor-based Discriminant Locality Preserving Projections for face recognition. **2008,**

1271 . **2008,** 10, 620-628

36

1270 Learning-based face hallucination in DCT domain. **2008,**

10

1269 Direct Hallucination: Direct Locality Preserving Projections (DLPP) for Face Super-Resolution. **2008,**

4

1268 . **2008,**

2

1267 A Novel Two-Stage Cancer Classification Method for Microarray Data Based on Supervised Manifold Learning. **2008,**

3

1266 Scale invariant face recognition using probabilistic similarity measure. **2008,**

1265 A robust identification approach to gait recognition. **2008,**

1264 Multidimensional Visualization to Support Analysis of Image Collections. **2008,**

3

1263 Hallucinating facial images and features. **2008,**

1262 Kernel based incremental learning Isomap algorithm. **2008,**

1

1261 Kernel relative transformation with applications to enhancing locally linear embedding. **2008,**

2

1260 . **2008,**

1259 Regularized Minimum Volume Ellipsoid Metric for Query-Based Learning. **2008,**

1

1258 Estimating 3D Face Model and Facial Deformation from a Single Image Based on Expression Manifold Optimization. **2008,** 589-602

3

1257 Ranked centroid projection: a data visualization approach with self-organizing maps. **2008,** 19, 245-59

19

1256	Human Motion. <b>2008</b> ,	16
1255	Nonlinear Time Series Analysis in the Geosciences. <b>2008</b> ,	27
1254	Kernel Locally Linear Embedding Algorithm for Quality Control. <b>2008</b> , 1-6	3
1253	An Incremental Learning Method for Unconstrained Gaze Estimation. <b>2008</b> , 656-667	39
1252	Boosting method for local learning in statistical pattern recognition. <b>2008</b> , 20, 2792-838	7
1251	k-means discriminant maps for data visualization and classification. <b>2008</b> ,	3
1250	Nearest hyperdisk methods for high-dimensional classification. <b>2008</b> ,	21
1249	REDUS. <b>2008</b> ,	2
1248	Locality condensation. <b>2008</b> ,	9
1247	Active post-refined multimodality video semantic concept detection with tensor representation. <b>2008</b> ,	17
1246	Random projection trees and low dimensional manifolds. <b>2008</b> ,	127
1245	Leveraging user query log. <b>2008</b> ,	4
1244	Algorithmic dimensionality reduction for molecular structure analysis. <b>2008</b> , 129, 064118	56
1243	Neighbourhood preserving based semi-supervised dimensionality reduction. <b>2008</b> , 44, 1190	28
1242	. <b>2008</b> , 20, 189-201	137
1241	Monitoring High-Dimensional Data for Failure Detection and Localization in Large-Scale Computing Systems. <b>2008</b> , 20, 13-25	4
1240	Kernel uncorrelated neighbourhood discriminative embedding for radar target recognition. <b>2008</b> , 44, 154	1
1239	Relaxed maximum-variance unfolding. <b>2008</b> , 47, 077202	3

1238	A sensorimotor approach to sound localization. <b>2008</b> , 20, 603-35	43
1237	Novel semisupervised high-dimensional correspondences learning method. <b>2008</b> , 47, 047201	2
1236	SEGMENT CLASSIFICATION OF ECG DATA AND CONSTRUCTION OF SCATTER PLOTS USING PRINCIPAL COMPONENT ANALYSIS. <b>2008</b> , 08, 421-458	18
1235	Natural variation in RPS2-mediated resistance among Arabidopsis accessions: correlation between gene expression profiles and phenotypic responses. <b>2007</b> , 19, 4046-60	35
1234	A scalable kernel-based semisupervised metric learning algorithm with out-of-sample generalization ability. <b>2008</b> , 20, 2839-61	13
1233	Probabilistic latent semantic visualization. <b>2008</b> ,	50
1232	Spatial sound for video games and virtual environments utilizing real-time GPU-based convolution. <b>2008</b> ,	8
1231	Dirichlet component analysis. <b>2008</b> ,	4
1230	Structure feature selection for graph classification. <b>2008</b> ,	23
1229	Monitoring visual focus of attention via local discriminant projection. <b>2008</b> ,	4
1228	ManifoldBoost. <b>2008</b> ,	10
1227	Ranking on semantic manifold for shape-based 3d model retrieval. <b>2008</b> ,	11
1226	Automatic inline defect detection for a thin film transistor liquid crystal display array process using locally linear embedding and support vector data description. <b>2008</b> , 19, 095501	16
1225	Relevance aggregation projections for image retrieval. <b>2008</b> ,	3
1224	Two-dimensional locality sensitive discriminant analysis. <b>2008</b> ,	
1223	Random projection trees for vector quantization. <b>2008</b> ,	1
1222	Multi-view ear recognition based on B-Spline pose manifold construction. <b>2008</b> ,	5
1221	Adaptive Localization through Transfer Learning in Indoor Wi-Fi Environment. <b>2008</b> ,	43

1220 Local Regularized Least-Square Dimensionality Reduction. **2008,**

1219 Constrained Maximum Variance Mapping. **2008,**

1218 Uncorrelated Maximum Locality Preserving Projections. **2008,**

1217 Clustering-based locally linear embedding. **2008,**

1

1216 Predicting the shapes of bones at a joint: application to the shoulder. **2008,** 11, 19-30

32

1215 . **2008,**

1

1214 A statistical image-based approach for the 3D reconstruction of the scoliotic spine from biplanar radiographs. **2008,**

5

1213 Video Face Recognition on Invariable Moment. **2008,**

1

1212 . **2008,**

10

1211 A LLE-based approach to sensor fault detection. **2008,**

1210 Robust Facial Attribute-Specific Subspace-Based Principal Component Analysis for Face Recognition. **2008,**

1209 On the estimation of geodesic paths on sampled manifolds under random projections. **2008,**

1

1208 Dimensionality reduction of flow cytometric data through information preservation. **2008,**

1207 Manifold-constrained regressors in system identification. **2008,**

8

1206 2D-ONPP: Two Dimensional Extension of Orthogonal Neighborhood Preserving Projections for Face Recognition. **2008,**

3

1205 Estimating effective degrees of freedom in motor systems. **2008,** 55, 430-42

23

1204 Modality Mixture Projections for Semantic Video Event Detection. **2008,** 18, 1587-1596

53

1203 3D face tracking and expression inference from a 2D sequence using manifold learning. **2008,**

2

1202	Using state space differential geometry for nonlinear blind source separation. <b>2008</b> , 103, 044906	7
1201	A study of using locality preserving projections for feature extraction in speech recognition. <b>2008</b> ,	13
1200	Locality Preserving Projection in Orthogonal Domain. <b>2008</b> ,	1
1199	Context and observation driven latent variable model for human pose estimation. <b>2008</b> ,	36
1198	Neighborhood smoothing embedding for noisy manifold learning. <b>2008</b> ,	1
1197	Generalized Locally Linear Embedding Based on Local Reconstruction Similarity. <b>2008</b> ,	6
1196	An improved Float-Coded genetic algorithm based on wavelet denoising mutation. <b>2008</b> ,	
1195	A kernel view of manifold analysis for face images. <b>2008</b> ,	
1194	Face recognition with Locality Sensitive Discriminant Analysis based on matrix representation. <b>2008</b> ,	
1193	A novel unsupervised feature extraction based on image matrix. <b>2008</b> ,	
1192	A novel method of feature extraction based on local scatter and nonlocal scatter. <b>2008</b> ,	
1191	SHREC08 entry: Semi-supervised learning for semantic 3D model retrieval. <b>2008</b> ,	1
1190	Discriminant adaptive edge weights for graph embedding. <b>2008</b> ,	3
1189	. <b>2008</b> ,	6
1188	Large-scale manifold learning. <b>2008</b> ,	82
1187	Graph-based semi-supervised learning with redundant views. <b>2008</b> ,	
1186	2DUDP: Novel method of feature extraction based on image matrix. <b>2008</b> ,	
1185	Manifold-Manifold Distance with application to face recognition based on image set. <b>2008</b> ,	13

1184	Margin-based discriminant dimensionality reduction for visual recognition. 2008,	6
1183	Research on clustered patent mapping visualization and interaction. 2008,	
1182	Correlation Embedding Analysis. 2008,	4
1181	Perturbational formulation of principal component analysis in molecular dynamics simulation. 2008 , 78, 046702	9
1180	Locality-preserved maximum information projection. 2008, 19, 571-85	64
1179	Boundary Constrained Manifold Unfolding. 2008,	
1178	A Natural Feature Representation for Unstructured Environments. 2008, 24, 1329-1340	11
1177	Local conditions for critical and principal manifolds. 2008,	5
1176	A Hybrid Framework for 3-D Human Motion Tracking. 2008, 18, 1075-1084	15
1175	Face Recognition Based on Chaotic Fuzzy RBF Neural Network. 2008,	
1174	Learning on varifolds. 2008,	1
1173	Manifold learning with local geometry preserving and global affine transformation. 2008,	
1172	Towards dextrous manipulation using manipulation manifolds. 2008,	13
1171	Two Dimension Locally Principal Component Analysis for Face Recognition. 2008,	0
1170	. 2008,	0
1169	. 2008,	0
1168	Mesh parameterization. 2008,	55
1167	Horseshoes in multidimensional scaling and local kernel methods. 2008, 2,	60

1166	Improved classifier for computer-aided polyp detection in CT colonography by nonlinear dimensionality reduction. <b>2008</b> , 35, 1377-86	28
1165	Text Data Mining: Theory and Methods. <b>2008</b> , 2,	30
1164	Encoding network states by striatal cell assemblies. <b>2008</b> , 99, 1435-50	143
1163	Multiscale target manifold characterization for 3D imaging ladar. <b>2008</b> ,	
1162	(2D)2UDP: A New Two-Directional Two-Dimensional Unsupervised Discriminant Projection for Face Recognition. <b>2008</b> ,	
1161	Linear Neighborhood Spread: A Way for Semi-Supervised Learning. <b>2008</b> ,	
1160	Adaptive neighborhood selection for manifold learning. <b>2008</b> ,	1
1159	The Learning-Based Principal Component Analysis Technique in Low Resolution and High Resolution Spectral Images. <b>2008</b> , 52, 030504	
1158	Perspectives on System Identification. <b>2008</b> , 41, 7172-7184	34
1157	A Metric Multidimensional Scaling-Based Nonlinear Manifold Learning Approach for Unsupervised Data Reduction. <b>2008</b> , 2008,	3
1156	Dimensionality reduction in nonlinear optical datasets via diffusion mapping: case study of short-pulse second harmonic generation. <b>2008</b> ,	
1155	Visual Database. <b>2008</b> ,	
1154	A scale-based approach to finding effective dimensionality in manifold learning. <b>2008</b> , 2,	11
1153	Representational similarity analysis - connecting the branches of systems neuroscience. <b>2008</b> , 2, 4	1226
1152	Modular Toolkit for Data Processing (MDP): A Python Data Processing Framework. <b>2008</b> , 2, 8	49
1151	Kernel Based Nonlinear Dimensionality Reduction and Classification for Genomic Microarray. <b>2008</b> , 8, 4186-4200	4
1150	NCR-PCOPGene: An Exploratory Tool for Analysis of Sample-Classes Effect on Gene-Expression Relationships. <b>2008</b> , 789026	2
1149	Direct Neighborhood Discriminant Analysis for Face Recognition. <b>2008</b> , 2008, 1-15	



1148	Diffusion maps clustering for magnetic resonance q-ball imaging segmentation. <b>2008</b> , 2008, 526906	19
1147	. <b>2008</b> ,	156
1146	Quasi-Facial Communication for Online Learning Using 3D Modeling Techniques. <b>2008</b> , 6, 67-78	1
1145	A Strategy for Understanding How the Brain Accomplishes Object Recognition. 38-54	
1144	Activation of the cholinergic system endows compositional properties to striatal cell assemblies. <b>2009</b> , 101, 737-49	39
1143	Integrated KL (K-means Laplacian) Clustering: A New Clustering Approach by Combining Attribute Data and Pairwise Relations. <b>2009</b> ,	24
1142	A hierarchical spectral clustering and nonlinear dimensionality reduction scheme for detection of prostate cancer from magnetic resonance spectroscopy (MRS). <b>2009</b> , 36, 3927-39	39
1141	References. 322-344	
1140	Evaluation and visual exploratory analysis of DCE-MRI Data of breast lesions based on morphological features and novel dimension reduction methods. <b>2009</b> ,	1
1139	Stepwise Correlation metric based Discriminant Analysis and multi-probe images fusion for face recognition. <b>2009</b> ,	
1138	Statistical shape learning for 3D tracking. <b>2009</b> ,	
1137	Graph construction and b-matching for semi-supervised learning. <b>2009</b> ,	129
1136	Face clustering using semi-supervised Neighborhood Preserving Embedding with pairwise constraints. <b>2009</b> ,	1
1135	Relative Distance-Based Laplacian Eigenmaps. <b>2009</b> ,	2
1134	ISOMAP Algorithm-Based Feature Extraction for Electromechanical Equipment Fault Prediction. <b>2009</b> ,	5
1133	Nonlinear dimensionality reduction by locally linear inlaying. <b>2009</b> , 20, 300-15	28
1132	Sparse Locality Preserving Embedding. <b>2009</b> ,	11
1131	3D Body-part tracking of two persons using a hierarchical body model. <b>2009</b> ,	1

1130	Connecting spectral and spring methods for manifold learning. <b>2009,</b>	1
1129	Two dimension locality preserving projections with class information for face recognition. <b>2009,</b>	1
1128	Using Structured UKR manifolds for motion classification and segmentation. <b>2009,</b>	3
1127	Angular embedding: From jarring intensity differences to perceived luminance. <b>2009,</b>	8
1126	User-centric speaker report: Ranking-based effectiveness evaluation and feedback. <b>2009,</b>	
1125	Face Recognition with Locally Linear Embedding on Local Binary Patterns. <b>2009,</b>	1
1124	Non-negative Laplacian Embedding. <b>2009,</b>	17
1123	A SOM-Based Method for Manifold Learning and Visualization. <b>2009,</b>	1
1122	An Algorithmic Framework to the Optimal Mapping Function by a Radial Basis Function Neural Network. <b>2009,</b>	
1121	Computational Models for Neuromuscular Function. <b>2009, 2, 110-135</b>	79
1120	Research on Supervised Manifold Learning for SAR target classification. <b>2009,</b>	1
1119	Illumination Invariant Multi-pose Face Tracking. <b>2009,</b>	
1118	Robust semantic concept detection in large video collections. <b>2009,</b>	
1117	Dimensionality reduction and principal surfaces via Kernel Map Manifolds. <b>2009,</b>	10
1116	Orthogonal Neighborhood Preserving Discriminant Projections for Face Recognition. <b>2009,</b>	1
1115	Research on the Method of Nonlinear Dimensionality Reduction for the Text of Laws and Regulations of Construction. <b>2009,</b>	
1114	Recognition of Low-Dimensional Patterns in Radio Access Network Data. <b>2009,</b>	
1113	Dimensionality reduction by self organizing maps that preserve distances in output space. <b>2009,</b>	5

1112	Locality preserving constraints for super-resolution with neighbor embedding. <b>2009,</b>	6
1111	From Laplacian Eigenmaps to Kernel Locality Preserving Projections: Equivalence or Improvement?. <b>2009,</b>	2
1110	Margin Maximum Embedding Discriminant (MMED) for Feature Extraction and Classification. <b>2009,</b>	3
1109	Locality Preserving Embedding. <b>2009,</b>	1
1108	A fast mean-field method for large-scale high-dimensional data and its application in colonic polyp detection at CT colonography. <b>2009,</b>	
1107	The application of intrinsic variable preserving manifold learning method to tracking multiple people with occlusion reasoning. <b>2009,</b>	4
1106	Clustering Based on LLE For Financial Multivariate Time Series. <b>2009,</b>	1
1105	Kernel LDP Based Discriminant Analysis for Face Recognition. <b>2009,</b>	
1104	Manifold elastic net for sparse learning. <b>2009,</b>	2
1103	Passive millimeter-wave metal target recognition based on manifold learning. <b>2009,</b>	
1102	Outlier detection via localized p-value estimation. <b>2009,</b>	2
1101	Unlabeled data improves word prediction. <b>2009,</b>	1
1100	Untangling fibers by quotient appearance manifold mapping for grayscale shape classification. <b>2009,</b>	
1099	On optimizing subspaces for face recognition. <b>2009,</b>	
1098	On manifolds, climate reconstruction and bivalve shells. <b>2009,</b>	1
1097	. <b>2009,</b>	10
1096	Distributed distance estimation for manifold learning and dimensionality reduction. <b>2009,</b>	8
1095	Topology and data. <b>2009,</b> 46, 255-308	928

1094	Discriminant feature extraction based on center distance. <b>2009,</b>	
1093	Latent spaces for dynamic movement primitives. <b>2009,</b>	21
1092	Novel Machine Learning for Hand Gesture Recognition Using Multiple View. <b>2009,</b>	3
1091	Orthogonal Discriminant Neighborhood Preserving Projections for Face Recognition. <b>2009,</b>	1
1090	Discriminative Geometry Preserving Projections. <b>2009,</b>	3
1089	A Novel Tracking and Recognition Algorithm Using "Continuous Autoencoder" Network. <b>2009,</b>	
1088	Supervised Self-taught Learning: Actively transferring knowledge from unlabeled data. <b>2009,</b>	10
1087	Facial Expression Recognition with Marginal Fisher Analysis on Local Binary Patterns. <b>2009,</b>	
1086	On video textures generation: A comparison between different dimensionality reduction techniques. <b>2009,</b>	1
1085	Learning 3-D object orientation from images. <b>2009,</b>	36
1084	Video-based activity monitoring for indoor environments. <b>2009,</b>	12
1083	An Adaptive Manifold Learning Algorithm Based on ISOMAP. <b>2009,</b>	0
1082	Linear and nonlinear dimensionality reduction for face recognition. <b>2009,</b>	1
1081	Visyllable-specific facial transition motion embedding and extraction. <b>2009,</b>	
1080	Hierarchical 3D diffusion wavelet shape priors. <b>2009,</b>	13
1079	Manifold Learning and Application on Classification of Leukemia Cells Based on Raman Spectroscopy. <b>2009,</b>	1
1078	A Novel Semi-Supervised Learning for Collaborative Image Retrieval. <b>2009,</b>	
1077	Support Vector Machines Based on Spread Directions of Manifold. <b>2009,</b>	

1076	Robust multi-view car detection using unsupervised sub-categorization. <b>2009</b> ,	1
1075	Dynamic texture models of music. <b>2009</b> ,	3
1074	AN ENHANCED LIPSCHITZ EMBEDDING CLASSIFIER FOR MULTI-EMOTION SPEECH ANALYSIS. <b>2009</b> , 23, 1685-1700	4
1073	INTRINSIC DIMENSIONALITY ESTIMATION WITHIN NEIGHBORHOOD CONVEX HULL. <b>2009</b> , 23, 31-44	4
1072	A NOTE ON THE LOCALLY LINEAR EMBEDDING ALGORITHM. <b>2009</b> , 23, 1739-1752	8
1071	SUBSPACES VERSUS SUBMANIFOLDS: A COMPARATIVE STUDY IN SMALL SAMPLE SIZE PROBLEM. <b>2009</b> , 23, 463-490	10
1070	Nonlinear Dimensionality Reduction with Local Spline Embedding. <b>2009</b> , 21, 1285-1298	91
1069	Viewpoint Manifolds for Action Recognition. <b>2009</b> , 2009, 1-13	17
1068	Gaussian-process factor analysis for low-dimensional single-trial analysis of neural population activity. <b>2009</b> , 102, 614-35	307
1067	Color image segmentation using Laplacian eigenmaps. <b>2009</b> , 18, 023004	4
1066	Boosting Graph Embedding with Application to Facial Expression Recognition. <b>2009</b> ,	0
1065	Optimal Local Temporal Common Spatial Patterns for Single-trial EEG Classification. <b>2009</b> ,	
1064	Foundations of Computational, IntelligenceVolume 6. <b>2009</b> ,	3
1063	Point Pattern Matching with Locality Preserving Descriptors. <b>2009</b> ,	
1062	Hypothesis-margin Model Incorporating Structure Information for Feature Selection. <b>2009</b> ,	2
1061	Enhanced Marginal Fisher Analysis for Face Recognition. <b>2009</b> ,	5
1060	An outlier-insensitive Linear Pursuit Embedding algorithm. <b>2009</b> ,	
1059	Learning a Locality Preserving Subspace for ISAR Target Recognition. <b>2009</b> ,	

1058	A Model of Selecting the Parameters Based on the Variance of Distance Ratios for Manifold Learning Algorithms. <b>2009</b> ,	3
1057	Manifold Alignment via Local Block Coordinate. <b>2009</b> ,	1
1056	A Novel Algorithm to Multi-manifolds Data Sets Classification. <b>2009</b> ,	1
1055	Active Neighborhood Selection for Locally Linear Embedding. <b>2009</b> ,	0
1054	Frame based kernel methods for automatic classification in hyperspectral data. <b>2009</b> ,	4
1053	Using a statistical appearance model to predict the fracture load of the proximal femur. <b>2009</b> ,	5
1052	A computational framework for exploratory data analysis in biomedical imaging. <b>2009</b> ,	
1051	Persistent cohomology and circular coordinates. <b>2009</b> ,	8
1050	Interactive 3D caricature generation based on double sampling. <b>2009</b> ,	7
1049	Structure preserving embedding. <b>2009</b> ,	70
1048	Topological methods for exploring low-density states in biomolecular folding pathways. <b>2009</b> , 130, 144115	82
1047	Feature Extraction Methods for Fault Classification of Rolling Element Bearing Based on Nonlinear Dimensionality Reduction and SVMs. <b>2009</b> ,	1
1046	Retrieval based interactive cartoon synthesis via unsupervised bi-distance metric learning. <b>2009</b> ,	23
1045	Locally non-negative linear structure learning for interactive image retrieval. <b>2009</b> ,	4
1044	Spectral mesh processing. <b>2009</b> ,	17
1043	Use of dimensionality reduction for structural mapping of hip joint osteoarthritis data. <b>2009</b> , 20, 104025	1
1042	Markerless gating for lung cancer radiotherapy based on machine learning techniques. <b>2009</b> , 54, 1555-63	47
1041	Manifold knowledge extraction and target recognition. <b>2009</b> ,	

1040	Fitting a graph to vector data. <b>2009</b> ,	44
1039	Bidirectional visible neighborhood preserving embedding. <b>2009</b> ,	
1038	In-TFT-array-process micro defect inspection using nonlinear principal component analysis. <b>2009</b> , 10, 4498-514	9
1037	Statistical Prediction of ENSO from Subsurface Sea Temperature Using a Nonlinear Dimensionality Reduction. <b>2009</b> , 22, 4501-4519	27
1036	Visualizing the Result of Fuzzy Clustering Using GIS. <b>2009</b> ,	
1035	Deep learning from temporal coherence in video. <b>2009</b> ,	149
1034	Steady-state kinetic modeling constrains cellular resting states and dynamic behavior. <b>2009</b> , 5, e1000298	16
1033	Anomaly detection using manifold embedding and its applications in transportation corridors. <b>2009</b> , 13, 435-455	13
1032	Energy Minimization Methods in Computer Vision and Pattern Recognition. <b>2009</b> ,	1
1031	Supervised Isomap for Plant Leaf Image Classification. <b>2009</b> , 627-634	4
1030	Variational Graph Embedding for Globally and Locally Consistent Feature Extraction. <b>2009</b> , 538-553	16
1029	Shape, size, and robustness: feasible regions in the parameter space of biochemical networks. <b>2009</b> , 5, e1000256	38
1028	Discovering Sparse Covariance Structures With the Isomap. <b>2009</b> , 18, 551-572	23
1027	Fault Diagnosis of Rolling Bearings Based on LLE_KFDA. <b>2009</b> , 626-627, 529-534	2
1026	Semi-supervised Learning by Sparse Representation. <b>2009</b> ,	157
1025	Supervised classification of multispectral remote sensing images based on the nearest reduced convex hull approach. <b>2009</b> , 3, 033550	3
1024	Data Mining and Inorganic Crystallography. <b>2009</b> , 59-87	4
1023	Unimodal biometric system based on local topology structure preserving projections. <b>2009</b> , 48, 117207	

1022	Statistical challenges of high-dimensional data. <b>2009</b> , 367, 4237-53	171
1021	. <b>2009</b> ,	
1020	Symmetrical 2DLDA Using Different Measures in Face Recognition. <b>2009</b> ,	3
1019	Maximum neighborhood margin criterion in face recognition. <b>2009</b> , 48, 047205	3
1018	Numerical Geometry of Non-Rigid Shapes. <b>2009</b> ,	103
1017	Finding the Homology of Submanifolds with High Confidence from Random Samples. <b>2009</b> , 1-23	3
1016	Estimating intrinsic dimensionality of fMRI dataset incorporating an AR(1) noise model with cubic spline interpolation. <b>2009</b> , 72, 1042-1055	10
1015	Minimum spanning tree based one-class classifier. <b>2009</b> , 72, 1859-1869	98
1014	Linear manifold topographic map formation based on an energy function with on-line adaptation rules. <b>2009</b> , 72, 1817-1825	3
1013	Nonlinear dimensionality reduction with relative distance comparison. <b>2009</b> , 72, 1719-1731	8
1012	Neighborhood discriminant tensor mapping. <b>2009</b> , 72, 2035-2039	5
1011	Local linear transformation embedding. <b>2009</b> , 72, 2368-2378	29
1010	Quality assessment of dimensionality reduction: Rank-based criteria. <b>2009</b> , 72, 1431-1443	162
1009	Nonlinear data projection on non-Euclidean manifolds with controlled trade-off between trustworthiness and continuity. <b>2009</b> , 72, 1444-1454	5
1008	Neural projection techniques for the visual inspection of network traffic. <b>2009</b> , 72, 3649-3658	27
1007	Combining local and global information for nonlinear dimensionality reduction. <b>2009</b> , 72, 2235-2241	14
1006	Learning nonlinear manifolds based on mixtures of localized linear manifolds under a self-organizing framework. <b>2009</b> , 72, 3318-3330	6
1005	RankVisu: Mapping from the neighborhood network. <b>2009</b> , 72, 2964-2978	14



1004	Image retrieval using nonlinear manifold embedding. <b>2009</b> , 72, 3922-3929	16
1003	Multi-view face recognition based on tensor subspace analysis and view manifold modeling. <b>2009</b> , 72, 3742-3750	25
1002	Improving the discriminant ability of local margin based learning method by incorporating the global between-class separability criterion. <b>2009</b> , 73, 536-541	13
1001	Proximal support vector machine using local information. <b>2009</b> , 73, 357-365	21
1000	Subspace learning-based dimensionality reduction in building recognition. <b>2009</b> , 73, 324-330	15
999	Audio-visual human recognition using semi-supervised spectral learning and hidden Markov models. <b>2009</b> , 20, 188-195	10
998	Random Projection Trees for Vector Quantization. <b>2009</b> , 55, 3229-3242	60
997	Dimensionality reduction oriented toward the feature visualization for ischemia detection. <b>2009</b> , 13, 590-8	8
996	Personalized X-ray 3-D reconstruction of the scoliotic spine from hybrid statistical and image-based models. <b>2009</b> , 28, 1422-35	44
995	Trabecular bone analysis in CT and X-ray images of the proximal femur for the assessment of local bone quality. <b>2009</b> , 28, 1560-75	19
994	. <b>2009</b> , 47, 1673-1684	43
993	Face Recognition Under Occlusions and Variant Expressions With Partial Similarity. <b>2009</b> , 4, 217-230	55
992	Information Preserving Component Analysis: Data Projections for Flow Cytometry Analysis. <b>2009</b> , 3, 148-158	9
991	Using Diffusion Geometric Coordinates for Hyperspectral Imagery Representation. <b>2009</b> , 6, 767-771	26
990	Network-based exploration and visualisation of ecological data. <b>2009</b> , 220, 673-683	13
989	Embedding new data points for manifold learning via coordinate propagation. <b>2009</b> , 19, 159-184	37
988	Random Projections of Smooth Manifolds. <b>2009</b> , 9, 51-77	218
987	Graph-based semi-supervised learning. <b>2009</b> , 14, 445-448	5

986	Manifold Reconstruction in Arbitrary Dimensions Using Witness Complexes. <b>2009</b> , 42, 37-70	23
985	A comparative analysis of principal component and independent component techniques for electrocardiograms. <b>2009</b> , 18, 539-556	54
984	Kernel-based nonlinear dimensionality reduction for electrocardiogram recognition. <b>2009</b> , 18, 1013-1020	6
983	Intrinsic dimension estimation of manifolds by incising balls. <b>2009</b> , 42, 780-787	34
982	Finding representative landmarks of data on manifolds. <b>2009</b> , 42, 2335-2352	6
981	Feature extraction based on Laplacian bidirectional maximum margin criterion. <b>2009</b> , 42, 2327-2334	61
980	marginFace: A novel face recognition method by average neighborhood margin maximization. <b>2009</b> , 42, 2863-2875	49
979	Video event segmentation and visualisation in non-linear subspace. <b>2009</b> , 30, 123-131	13
978	Incremental Laplacian eigenmaps by preserving adjacent information between data points. <b>2009</b> , 30, 1457-1463	41
977	Dynamic shape outlier detection for human locomotion. <b>2009</b> , 113, 332-344	4
976	Kernel based nonlinear dimensionality reduction for microarray gene expression data analysis. <b>2009</b> , 36, 7644-7650	17
975	Joint trajectory tracking and recognition based on bi-directional nonlinear learning. <b>2009</b> , 27, 1302-1312	4
974	A new approach to discover interlacing data structures in high-dimensional space. <b>2009</b> , 33, 3-22	1
973	Local procrustes for manifold embedding: a measure of embedding quality and embedding algorithms. <b>2009</b> , 77, 1-25	31
972	Kriging in the Presence of Locally Varying Anisotropy Using Non-Euclidean Distances. <b>2009</b> , 41, 585-601	42
971	Dimensionality reduction for similarity search with the Euclidean distance in high-dimensional applications. <b>2009</b> , 42, 251-271	4
970	Local Dimensionality Reduction for Non-Parametric Regression. <b>2009</b> , 29, 109-131	22
969	Information Maximization in a Linear Manifold Topographic Map. <b>2009</b> , 29, 155-178	2

968	Learning Generative Models for Multi-Activity Body Pose Estimation. <b>2009</b> , 83, 121-134	36
967	Optimal Local Basis: A Reinforcement Learning Approach for Face Recognition. <b>2009</b> , 81, 191-204	30
966	Topology-Invariant Similarity of Nonrigid Shapes. <b>2009</b> , 81, 281-301	41
965	A note on Laplacian eigenmaps. <b>2009</b> , 14, 632-634	1
964	Kernel neighborhood preserving embedding for classification. <b>2009</b> , 26, 374-379	1
963	Facial Expression Recognition of Various Internal States via Manifold Learning. <b>2009</b> , 24, 745-752	4
962	Biologically Inspired Tensor Features. <b>2009</b> , 1, 327-341	17
961	Visual analysis of image collections. <b>2009</b> , 25, 923-937	30
960	Processing spectral data. <b>2009</b> , 41, 636-644	7
959	Machinery fault diagnosis using supervised manifold learning. <b>2009</b> , 23, 2301-2311	77
958	Dominant Texture and Diffusion Distance Manifolds. <b>2009</b> , 28, 667-676	15
957	Semi-Supervised Learning in Reconstructed Manifold Space for 3D Caricature Generation. <b>2009</b> , 28, 2104-2116	13
956	Dimensionality reduction for heterogeneous dataset in rushes editing. <b>2009</b> , 42, 229-242	13
955	Discriminatively regularized least-squares classification. <b>2009</b> , 42, 93-104	86
954	An adaptive image Euclidean distance. <b>2009</b> , 42, 349-357	49
953	Bagging null space locality preserving discriminant classifiers for face recognition. <b>2009</b> , 42, 1853-1858	11
952	Stable local dimensionality reduction approaches. <b>2009</b> , 42, 2054-2066	62
951	Graph characteristics from the heat kernel trace. <b>2009</b> , 42, 2589-2606	113

950	Tracking articulated objects by learning intrinsic structure of motion. <b>2009</b> , 30, 267-274	4
949	Neighbor embedding based super-resolution algorithm through edge detection and feature selection. <b>2009</b> , 30, 494-502	105
948	Enhanced supervised locally linear embedding. <b>2009</b> , 30, 1208-1218	53
947	An incremental dimensionality reduction method on discriminant information for pattern classification. <b>2009</b> , 30, 1416-1423	3
946	Integrating nonlinear graph based dimensionality reduction schemes with SVMs for credit rating forecasting. <b>2009</b> , 36, 7515-7518	20
945	Multiple manifolds analysis and its application to fault diagnosis. <b>2009</b> , 23, 2500-2509	41
944	Weighted locally linear embedding for dimension reduction. <b>2009</b> , 42, 798-811	72
943	An efficient discriminant-based solution for small sample size problem. <b>2009</b> , 42, 857-866	53
942	Optimization of a training set for more robust face detection. <b>2009</b> , 42, 2828-2840	18
941	Enhanced graph-based dimensionality reduction with repulsion Laplaceans. <b>2009</b> , 42, 2392-2402	20
940	Multi-output regression on the output manifold. <b>2009</b> , 42, 2737-2743	28
939	Human pose estimation from corrupted silhouettes using a sub-manifold voting strategy in latent variable space. <b>2009</b> , 30, 421-431	4
938	Neighbourhood preserving discriminant embedding in face recognition. <b>2009</b> , 20, 532-542	33
937	Learning a locality discriminating projection for classification. <b>2009</b> , 22, 562-568	15
936	Matrix perturbation analysis of local tangent space alignment. <b>2009</b> , 430, 732-746	4
935	Video semantic analysis based on structure-sensitive anisotropic manifold ranking. <b>2009</b> , 89, 2313-2323	10
934	A linear-space algorithm for distance preserving graph embedding. <b>2009</b> , 42, 289-304	6
933	Fitting sparse multidimensional data with low-dimensional terms. <b>2009</b> , 180, 2002-2012	43

932	Manifold models for signals and images. <b>2009</b> , 113, 249-260	114
931	A generative model for graph matching and embedding. <b>2009</b> , 113, 777-789	35
930	A feature analysis for dimension reduction based on a data generation model with class factors and environment factors. <b>2009</b> , 113, 1005-1016	1
929	An efficient high-dimensional indexing method for content-based retrieval in large image databases. <b>2009</b> , 24, 775-790	2
928	Subspace manifold learning with sample weights. <b>2009</b> , 27, 80-86	1
927	Feature selection via Boolean independent component analysis. <b>2009</b> , 179, 3815-3831	8
926	Dimensionality reduction for visualization of normal and pathological speech data. <b>2009</b> , 4, 194-201	14
925	Image feature optimization based on nonlinear dimensionality reduction. <b>2009</b> , 10, 1720-1737	3
924	Data Mining and Inorganic Crystallography. <b>2009</b> , 59-87	3
923	. <b>2009</b> , 57, 2000-2016	208
922	Manifold learning approach to facial expression recognition on local binary pattern features. <b>2009</b> ,	
921	. <b>2009</b> , 21, 1299-1313	298
920	. <b>2009</b> , 21, 335-350	58
919	Compact models of human reaching motions for robotic control in everyday manipulation tasks. <b>2009</b> ,	6
918	Manifold Discriminant Analysis. <b>2009</b> ,	109
917	. <b>2009</b> ,	1
916	Prototype Classification: Insights from Machine Learning. <b>2009</b> , 21, 272-300	10
915	A hybrid visual feature extraction method for audio-visual speech recognition. <b>2009</b> ,	

914	Exercising at home: Real-time interaction and experience sharing using avatars. <b>2009</b> , 1, 63-73	8
913	Book Reviews. <b>2009</b> , 104, 409-426	1
912	A New Robust Manifold Learning Algorithm Based on Self-Organizing Map. <b>2009</b> ,	
911	Discriminant Analysis for Dimensionality Reduction: An Overview of Recent Developments. 1-19	4
910	Super-Resolution of Face Images. 295-313	
909	Local Multidimensional Scaling for Nonlinear Dimension Reduction, Graph Drawing, and Proximity Analysis. <b>2009</b> , 104, 209-219	104
908	Clustering with Local and Global Regularization. <b>2009</b> , 21, 1665-1678	32
907	Maximum Margin Clustering on Data Manifolds. <b>2009</b> ,	2
906	Mahalanobis Distance Based Non-negative Sparse Representation for Face Recognition. <b>2009</b> ,	13
905	Manifold Learning. <b>2009</b> , 87-119	4
904	Factor Analysis of Incidence Data via Novel Decomposition of Matrices. <b>2009</b> , 83-97	16
903	Global Sparse Representation Projections for Feature Extraction and Classification. <b>2009</b> ,	8
902	Ranking with local regression and global alignment for cross media retrieval. <b>2009</b> ,	129
901	Statistical Learning and Pattern Analysis for Image and Video Processing. <b>2009</b> ,	20
900	Feature Generation I: Data Transformation and Dimensionality Reduction. <b>2009</b> , 323-409	9
899	Geometric Manifold Energy and Manifold Clustering. <b>2009</b> , 674-683	
898	Advances in Self-Organizing Maps. <b>2009</b> ,	20
897	Probabilistic dyadic data analysis with local and global consistency. <b>2009</b> ,	80

896	Exploiting motion correlations in 3-D articulated human motion tracking. <b>2009</b> , 18, 1292-303	9
895	Statistical Analysis of Network Data. <b>2009</b> ,	513
894	Bangla Hand Written digit recognition using supervised locally linear embedding algorithm and Support Vector Machine. <b>2009</b> ,	4
893	Distance Dimension Reduction on QR Factorization for Efficient Clustering Semantic XML Document Using the QR Fuzzy C-Mean (QR-FCM). <b>2009</b> , 272-287	
892	Scalable Information Systems. <b>2009</b> ,	
891	A SURVEY OF BIOLOGICALLY INSPIRED IMAGE PROCESSING FOR OBJECTS RECOGNITION. <b>2009</b> , 09, 495-510	1
890	Intrusion Detection Using Isomap and Support Vector Machine. <b>2009</b> ,	2
889	Twentieth Anniversary Volume:. <b>2009</b> ,	
888	Groupwise morphometric analysis based on morphological appearance manifold. <b>2009</b> ,	
887	Modeling Decisions for Artificial Intelligence. <b>2009</b> ,	1
886	Multiscale modeling of emergent materials: biological and soft matter. <b>2009</b> , 11, 1869-92	217
885	Single camera 3D human pose estimation: A Review of current techniques. <b>2009</b> ,	6
884	Hierarchical Local Maps for Robust Approximate Nearest Neighbor Computation. <b>2009</b> ,	
883	Inferring semantic concepts from community-contributed images and noisy tags. <b>2009</b> ,	151
882	Advances in Computation and Intelligence. <b>2009</b> ,	2
881	Fuzzy System Methods in Modeling Gene Expression and Analyzing Protein Networks. <b>2009</b> , 165-189	2
880	Pattern discovery in expression profiling data. <b>2009</b> , Chapter 22, Unit 22.5	8
879	Multiple Classifier Systems. <b>2009</b> ,	8

878	A New Approach for Gender Classification Based on Gait Analysis. <b>2009,</b>	12
877	Ubiquitously supervised subspace learning. <b>2009,</b> 18, 241-9	15
876	k/K-Nearest Neighborhood Criterion for Improving Locally Linear Embedding. <b>2009,</b>	2
875	Load forecasting via manifold regularization. <b>2009,</b>	
874	Aircraft Pose Recognition Using Locally Linear Embedding. <b>2009,</b>	0
873	Multilinear Isometric Embedding for visual pattern analysis. <b>2009,</b>	
872	Effective face pose classification method. <b>2009,</b>	1
871	Image denoising using mixtures of projected Gaussian Scale Mixtures. <b>2009,</b> 18, 1689-702	26
870	. <b>2009,</b> 11, 1276-1288	75
869	Supervised Vector Angle Embedding Learning for Face Recognition. <b>2009,</b>	
868	Human Age Estimation by Metric Learning for Regression Problems. <b>2009,</b>	4
867	Two-stage framework for visualization of clustered high dimensional data. <b>2009,</b>	29
866	Supervised Laplacian Eigenmaps for Machinery Fault Classification. <b>2009,</b>	6
865	Kernel Non-Locality Preserving Projection and Its Application to Face Recognition. <b>2009,</b>	
864	Mining Personal Image Collection for Social Group Suggestion. <b>2009,</b>	7
863	Dimension Reduction in Intrusion Detection Using Manifold Learning. <b>2009,</b>	2
862	Automated clustering of histology slide texture using co-occurrence based grayscale image features and manifold learning. <b>2009,</b>	
861	Locally Linear Embedding Algorithm with Adaptive Neighbors. <b>2009,</b>	2



860	Support Vector Machines with Manifold Learning and Probabilistic Space Projection for Tourist Expenditure Analysis. <b>2009</b> , 2, 17-26	8
859	A Novel Feature Extraction Method - alpha-Based Supervised Orthogonal Projection Reduction by Affinity. <b>2009</b> ,	2
858	Patch-Based Video Processing: A Variational Bayesian Approach. <b>2009</b> , 19, 27-40	31
857	Synthesizing Novel Dimension Reduction Algorithms in Matrix Trace Oriented Optimization Framework. <b>2009</b> ,	1
856	MIC_FS : A novel model for feature selection by mutual information guided by clustering. <b>2009</b> ,	2
855	Aligning Coupled Manifolds for Face Hallucination. <b>2009</b> , 16, 957-960	63
854	Coefficients' co-occurrence histogram of DWFT based feature extration with ONPP for face recognition. <b>2009</b> ,	
853	Principal tangent data reduction. <b>2009</b> ,	
852	Synergetic method of traffic state recognition based on manifold learning. <b>2009</b> ,	2
851	View-invariant dynamic texture recognition using a bag of dynamical systems. <b>2009</b> ,	69
850	Kernel Neighborhood Preserving Embedding and its Essence Analysis. <b>2009</b> ,	1
849	A Supervised Local Linear Embedding Based SVM Text Classification Algorithm. <b>2009</b> ,	1
848	A Novel Evolutionary Face Recognition Algorithm Using Particle Swarm Optimization. <b>2009</b> ,	2
847	H-APF: Using hierarchical representation of human body for 3-D articulated tracking and action classification. <b>2009</b> ,	2
846	Co-clustering on manifolds. <b>2009</b> ,	129
845	Non-Linear Dynamic Texture Analysis and Synthesis Using Constrained Gaussian Process Latent Variable Model. <b>2009</b> ,	7
844	Synchronized submanifold embedding for person-independent pose estimation and beyond. <b>2009</b> , 18, 202-10	52
843	Probabilistic NeuroScale for Uncertainty Visualisation. <b>2009</b> ,	1

842	Locally constrained diffusion process on locally densified distance spaces with applications to shape retrieval. <b>2009,</b>	73
841	Learning a distance metric from multi-instance multi-label data. <b>2009,</b>	34
840	Manifold learning-based phoneme recognition. <b>2009,</b>	
839	Discriminant Isomap projection. <b>2009,</b>	
838	3D CAD model search: A regularized manifold learning approach. <b>2009,</b>	
837	Learning mappings for face synthesis from near infrared to visual light images. <b>2009,</b>	6
836	A new approach in feature subset selection based on fuzzy entropy concept. <b>2009,</b>	3
835	Local Discriminant Space Alignment. <b>2009,</b>	
834	Feature extraction based on supervised kernel locality preserving projection algorithm and application to fault diagnosis. <b>2009,</b>	1
833	Local Marginal Projection and Its Applications. <b>2009,</b>	
832	Multimodal Biometrics Recognition by Dimensionality Reduction Method. <b>2009,</b>	
831	Supervised Neighborhood Topology Learning for Human Action Recognition. <b>2009,</b>	
830	Weed seeds recognition using Locally Linear Embedding. <b>2009,</b>	2
829	Local Graph Embedding Discriminant Analysis for Face Recognition with Single Training Sample Per Person. <b>2009,</b>	2
828	Learning distance metric for regression by semidefinite programming with application to human age estimation. <b>2009,</b>	37
827	Semi-supervised learning with path-based similarity measure for face recognition. <b>2009,</b>	
826	Hybrid multiobjective estimation of distribution algorithm by local linear embedding and an immune inspired algorithm. <b>2009,</b>	3
825	Analog-Circuit Fault Diagnosis Using Three-Stage Preprocessing and Time Series Data Mining. <b>2009,</b>	

824	A new approach of facial expression recognition based on Contourlet Transform. <b>2009</b> ,	1
823	Marginal and Nonlocal Discriminant Embedding for Face Recognition. <b>2009</b> ,	
822	FLoS: Facility location for subspace segmentation. <b>2009</b> ,	48
821	Head pose estimation based on nonlinear interpolative mapping. <b>2009</b> ,	
820	Bending invariant meshes and application to groupwise correspondences. <b>2009</b> ,	1
819	LPP-Adaboost Based Face Detection in Complex Backgrounds. <b>2009</b> ,	2
818	Spectral Properties of the Alignment Matrices in Manifold Learning. <b>2009</b> , 51, 545-566	23
817	A Multi-Class Multi-Manifold Learning Algorithm Based on ISOMAP. <b>2009</b> ,	1
816	Back Matter. <b>2009</b> , 235-286	
815	Tracking people on a torus. <b>2009</b> , 31, 520-38	59
814	Head pose estimation in computer vision: a survey. <b>2009</b> , 31, 607-26	792
813	Efficient recognition of highly similar 3D objects in range images. <b>2009</b> , 31, 172-9	46
812	Linear neighborhood propagation and its applications. <b>2009</b> , 31, 1600-15	126
811	Incremental isometric embedding of high-dimensional data using connected neighborhood graphs. <b>2009</b> , 31, 86-98	20
810	Distribution-based dimensionality reduction applied to articulated motion recognition. <b>2009</b> , 31, 795-810	15
809	Fast similarity search for learned metrics. <b>2009</b> , 31, 2143-57	159
808	FINE: fisher information nonparametric embedding. <b>2009</b> , 31, 2093-8	46
807	Correlative linear neighborhood propagation for video annotation. <b>2009</b> , 39, 409-16	44

806	A volume-based heat-diffusion classifier. <b>2009</b> , 39, 417-30	2
805	Manifold-based learning and synthesis. <b>2009</b> , 39, 592-606	8
804	Glimmer: multilevel MDS on the GPU. <b>2009</b> , 15, 249-61	95
803	Applying manifold learning to plotting approximate contour trees. <b>2009</b> , 15, 1185-92	22
802	Exemplar-based visualization of large document corpus. <b>2009</b> , 15, 1161-8	40
801	Hierarchical video summarization in reference subspace. <b>2009</b> , 55, 1551-1557	17
800	Improving SVM Classification on Imbalanced Data Sets in Distance Spaces. <b>2009</b> ,	22
799	Multi-label sparse coding for automatic image annotation. <b>2009</b> ,	82
798	Learning Deep Architectures for AI. <b>2009</b> , 2, 1-127	4542
797	Transition Path Theory for Markov Jump Processes. <b>2009</b> , 7, 1192-1219	263
796	REDUCING THE DIMENSIONALITY OF DATA: LOCALLY LINEAR EMBEDDING OF SLOAN GALAXY SPECTRA. <b>2009</b> , 138, 1365-1379	43
795	Estimating manifold dimension with nearest neighbor graphs. <b>2009</b> ,	
794	Novel insights into the lipidome of glioblastoma cells based on a combined PLSR and DD-HDS computational analysis. <b>2009</b> ,	
793	A Survey of Manifold Learning for Images. <b>2009</b> , 1, 83-94	65
792	ISAR target recognition based on manifold learning. <b>2009</b> ,	1
791	. <b>2009</b> ,	
790	Robust Locally Linear Embedding and Application in High Dimensional Data. <b>2009</b> ,	0
789	Geodesic Methods in Computer Vision and Graphics. <b>2009</b> , 5, 197-397	51

788	TENSOR LOCALITY SENSITIVE DISCRIMINANT ANALYSIS AND ITS COMPLEXITY. <b>2009</b> , 07, 865-880	8
787	Statistical Methods and Models for Video-Based Tracking, Modeling, and Recognition. <b>2009</b> , 3, 1-151	7
786	Distance metric learning and support vector machines for classification of mass spectrometry proteomics data. <b>2009</b> , 1, 216	1
785	Recent Advances and Trends in Large-Scale Kernel Methods. <b>2009</b> , E92-D, 1338-1353	15
784	Gray-Box Identification for High-Dimensional Manifold Constrained Regression. <b>2009</b> , 42, 1292-1297	1
783	Local graph cut criterion for supervised dimensionality reduction. <b>2009</b> ,	1
782	Uncorrelated Discriminant Locality Aware Embedding for Face Recognition. <b>2009</b> ,	
781	Statistical Feature Extraction Combined with Generalized Discriminant Component Analysis Driven SVM for Fault Diagnosis of HVDC GIS. <b>2021</b> , 14, 7674	
780	Adaptive Similarity Function with Structural Features of Network Embedding for Missing Link Prediction. <b>2021</b> , 2021, 1-15	1
779	Joint Neighborhood Preserving and Projected Clustering for Feature Extraction. <b>2021</b> ,	0
778	EEG fading data classification based on improved manifold learning with adaptive neighborhood selection. <b>2021</b> ,	1
777	Dimensionality Reduction Using Variational Autoencoders. <b>2022</b> , 255-262	
776	Feature selection based on non-negative spectral feature learning and adaptive rank constraint. <b>2021</b> , 107749	1
775	Posttranscriptional Regulation of the Human LDL Receptor by the U2-Spliceosome. <b>2021</b> ,	2
774	Tensor local linear embedding with global subspace projection optimisation.	0
773	Local symmetric directional pattern: A novel descriptor for extracting compact and distinctive features in face recognition. <b>2021</b> , 251, 168331	0
772	Knowledge Distillation of Grassmann Manifold Network for Remote Sensing Scene Classification. <b>2021</b> , 13, 4537	1
771	Health Diagnosis of Roadheader Based on Reference Manifold Learning and Improved K-Means. <b>2021</b> , 2021, 1-13	

- 770 Supervised Dimensionality Reduction Technology of Generalized Discriminant Component Analysis and Its Kernelization Forms. **2021**, 108450 1
- 769 Unsupervised feature learning for electrocardiogram data using the convolutional variational autoencoder. **2021**, 16, e0260612 2
- 768 Automatic multi-organ segmentation from abdominal CT volumes with LLE-based graph partitioning and 3D Chan-Vese model. **2021**, 139, 105030 0
- 767 Clustered Multiple Manifold Metric Learning for Hyperspectral Image Dimensionality Reduction and Classification. **2021**, 1-1 3
- 766 A Clustering Ensemble Method for Cell Type Detection by Multiobjective Particle Optimization. **2021**, PP, 2
- 765 Regularization of Mixture Models for Robust Principal Graph Learning. **2021**, PP, 2
- 764 Reducing Data Complexity using Autoencoders with Class-informed Loss Functions. **2021**, PP, 2
- 763 Neural Networks and Deep Learning: A Paradigm Shift in Information Processing, Machine Learning, and Artificial Intelligence. **2021**, 589-654 2
- 762 Graph Embedding via High Dimensional Model Representation for Hyperspectral Images. **2021**, 1-1 2
- 761 A Rapid and Accurate Method for Point Cloud Reconstruction of NURBS Surface. **2021**, 1175-1182 2
- 760 Multi-label Classification of Hyperspectral Images Based on Label-Specific Feature Fusion. **2021**, 224-234 2
- 759 Developing GCN: Graph Convolutional Network with Evolving Parameters for Dynamic Graphs. **2021**, 369-376 1
- 758 Tensor Laplacian Regularized Low-Rank Representation for Non-uniformly Distributed Data Subspace Clustering. **2021**, 1-1 1
- 757 A Kullback-Leibler Divergence-Based Locally Linear Embedding Method: A Novel Parametric Approach for Cluster Analysis. **2021**, 406-420 2
- 756 UnProjection: Leveraging Inverse-Projections for Visual Analytics of High-Dimensional Data. **2021**, PP, 2
- 755 Impact of Heterogeneity on Network Embedding. **2022**, 1-1 2
- 754 Global Plus Local Projection to Latent Structures. **2022**, 147-172 2
- 753 Multicriteria semi-supervised hyperspectral band selection based on evolutionary multitask optimization. **2022**, 240, 107934 3

752	A node2vec-based graph embedding approach for unified assembly process information modeling and workstep execution time prediction. <b>2022</b> , 163, 107864	1
751	Interpretable machine learning: Fundamental principles and 10 grand challenges. <b>2022</b> , 16,	34
750	Dynamic manifold Boltzmann optimization based on self-supervised learning for human motion estimation.	
749	Unsupervised Denoising Feature Learning for Classification of Corrupted Images. <b>2022</b> , 27, 100305	2
748	Estimation of coronary artery movement using a non-rigid registration with global-local structure preservation.. <b>2021</b> , 141, 105125	
747	Deep Recursive Embedding for High-Dimensional Data. <b>2021</b> , PP,	1
746	PPPNE: Personalized proximity preserved network embedding. <b>2022</b> , 472, 103-112	0
745	Locally linear embedding vote: A novel filter method for feature selection. <b>2022</b> , 190, 110535	0
744	State degradation evaluation and early fault identification of wind turbine bearings. <b>2022</b> , 311, 122348	1
743	Computational elucidation of spatial gene expression variation from spatially resolved transcriptomics data.. <b>2022</b> , 27, 404-411	2
742	Multi-Cluster Feature Selection Based on Isometric Mapping. <b>2022</b> , 9, 570-572	2
741	Manifold Learning with High Dimensional Model Representations. <b>2020</b> ,	2
740	A Novel Method for Leaf Recognition Based on D-LLE and Polar Coordinate Feature Extraction. <b>2020</b> ,	
739	Stochastic Neighbor Embedding Algorithm Based on Quantum Genetic Algorithm with Gaussian Parameters. <b>2020</b> ,	0
738	Using UMAP for Dimensionality Reduction of Hyperspectral Data.	1
737	Performance evaluation of non-linear techniques UMAP and t-SNE for data in higher dimensional topological space. <b>2020</b> ,	1
736	Unsupervised Image Classification System for Mobile Devices Based on Incremental Isomap. <b>2020</b> ,	
735	Benchmarking Network Embedding Models for Link Prediction: Are We Making Progress?. <b>2020</b> ,	4

- 734 DRUIDJS [A JavaScript Library for Dimensionality Reduction. **2020**,
- 733 A Comparative Assessment of Dimensionality Reduction Techniques for Diagnosing Faults in Smart Grids. **2020**,
- 732 Relationship-aware Multivariate Sampling Strategy for Scientific Simulation Data. **2020**,
- 731 Novel L2-Discriminant Locality Preserving Projection Integrated with Adaboost and Its Application to Fault Diagnosis. **2020**, 0
- 730 An Interpretable Data Embedding Under Uncertain Distance Information. **2020**, 0
- 729 FairMixRep: Self-supervised Robust Representation Learning for Heterogeneous Data with Fairness constraints. **2020**,
- 728 Data representation using robust nonnegative matrix factorization for edge computing.. **2022**, 19, 2147-2178 1
- 727 Locally Linear Embedding as Nonlinear Feature Extraction to Discriminate Liquids with a Cyclic Voltammetric Electronic Tongue. **2021**, 5,
- 726 Manifold öğrenme yöntemlerinin ileri seviye regresyon yöntemleri ile genelleştirilmesi.
- 725 Evaluation of Dimensionality Reduction Techniques in the Problem of Person Recognition by Gait. **2021**,
- 724 Entropic Laplacian eigenmaps for unsupervised metric learning. **2021**,
- 723 A Machine Learning Method for Protein quaternary structure Prediction. **2021**,
- 722 Deep Manifold Prior. **2021**, 1
- 721 Feature Selection for Bayesian Inference Network in Radar Jamming Effect Analysis. **2021**,
- 720 Temporal network embedding framework with causal anonymous walks representations.. **2022**, 8, e858 1
- 719 Feature dimensionality reduction: a review. 1 11
- 718 Dissecting Cellular Heterogeneity Based on Network Denoising of scRNA-seq Using Local Scaling Self-Diffusion.. **2021**, 12, 811043
- 717 Fault Detection Method Based on Global-Local Marginal Discriminant Preserving Projection for Chemical Process. **2022**, 10, 122 3



- 716 Data visualization through non linear dimensionality reduction using feature based Ricci flow embedding. 1
- 715 Tensor representation for remote sensing images. **2022**, 483-536
- 714 Customized Carbon Dots with Predictable Optical Properties Synthesized at Room Temperature Guided by Machine Learning. **2022**, 34, 998-1009 1
- 713 Rapid identification of the variety of maize seeds based on near-infrared spectroscopy coupled with locally linear embedding.. **2022**, 61, 1704-1710 2
- 712 Unsupervised domain adaptation using shallow and deep representations. **2022**, 243-274
- 711 Sparse parameter identification of stochastic dynamical systems. **2022**, 20, 139
- 710 Generating semantic maps through multidimensional scaling: linguistic applications and theory. **2019**, 2
- 709 Robust image features for classification and zero-shot tasks by merging visual and semantic attributes. **2022**, 34, 4459 0
- 708 Spectral clustering of single-cell multi-omics data on multilayer graphs.
- 707 Pandemonium: a clustering tool to partition parameter space—Application to the B anomalies. **2022**, 137, 1
- 706 A social perspective on perceived distances reveals deep community structure.. **2022**, 119, 0
- 705 Improving Deep Learning Projections by Neighborhood Analysis. **2022**, 127-152 1
- 704 Dimensionality reduction. **2022**, 93-108
- 703 Local-to-Global Deep Clustering on Approximate Uniform Manifold. **2022**, 1-1
- 702 Research on Real-Time Face Key Point Detection Algorithm Based on Attention Mechanism.. **2022**, 2022, 6205108
- 701 Computational Methods for Single-Cell Imaging and Omics Data Integration.. **2021**, 8, 768106 1
- 700 Fuzzy rule-based hyperspectral band selection algorithm with ant colony optimization. 1
- 699 Künstliche Intelligenz [multiskale und cross-domäne Synergien von Raumfahrt und Bauwesen. **2022**, 607-690 1

698	Deep low-rank feature learning and encoding for cross-age face recognition. <b>2022</b> , 82, 103423	1
697	Manifold Alignment Aware Ants: A Markovian Process for Manifold Extraction.. <b>2022</b> , 1-47	1
696	Cross-network representation learning for anchor users on multiplex heterogeneous social network. <b>2022</b> , 118, 108461	1
695	Global-local neighborhood based network representation for citation recommendation. 1	0
694	Graph coarsening: from scientific computing to machine learning. <b>2022</b> , 79, 187	3
693	Global structure-guided neighborhood preserving embedding for dimensionality reduction. 1	0
692	An Approach to Preprocess and Cluster a BRDF Database. <b>2022</b> , 119, 101123	
691	OUP accepted manuscript.	2
690	Graph Representation-Based Deep Multi-View Semantic Similarity Learning Model for Recommendation. <b>2022</b> , 14, 32	0
689	Improved Locality Preserving Projections Based on Heat-Kernel and Cosine Weights for Fault Classification in Complex Industrial Processes. <b>2022</b> , 1-10	6
688	Discovering cell types using manifold learning and enhanced visualization of single-cell RNA-Seq data.. <b>2022</b> , 12, 120	4
687	Deep representation learning for face hallucination. <b>2022</b> , 81, 6305	
686	Nonlinear Reduced Order Modeling using Domain Decomposition. <b>2022</b> ,	1
685	Tendency-aided Data-driven Method for Hot-spot Detection in Photovoltaic Systems. <b>2022</b> , 1-1	
684	Kernel-based data transformation model for nonlinear classification of symbolic data. <b>2022</b> , 26, 1249-1259	
683	A new elite opposite sparrow search algorithm-based optimized LightGBM approach for fault diagnosis.. <b>2022</b> , 1-19	1
682	JAGAN: A Framework for Complex Land Cover Classification Using Gaofen-5 AHSI Images. <b>2022</b> , 15, 1591-1603	5
681	A comprehensive review of computer-aided whole-slide image analysis: from datasets to feature extraction, segmentation, classification and detection approaches. 1	8

- 680 Combining intrinsic dimension and local tangent space for manifold spectral clustering image segmentation. 1
- 679 ASMFS: Adaptive-similarity-based multi-modality feature selection for classification of Alzheimer's disease. **2022**, 126, 108566 5
- 678 StackRAM: a cross-species method for identifying RNA N6-methyladenosine sites based on stacked ensemble. **2022**, 222, 104495 1
- 677 Symmetric positive definite manifold learning and its application in fault diagnosis.. **2021**, 147, 163-174 1
- 676 MTGK: Multi-source cross-network node classification via transferable graph knowledge. **2022**, 589, 395-415 0
- 675 Transferable discriminative non-negative matrix factorization for cross-database facial expression recognition. **2022**, 123, 103424
- 674 Robust low-rank representation via residual projection for image classification. **2022**, 241, 108230 1
- 673 Monitoring the propagation of mechanical discontinuity using data-driven causal discovery and supervised learning. **2022**, 170, 108791 0
- 672 MANDA: On Adversarial Example Detection for Network Intrusion Detection System. **2022**, 1-1 1
- 671 Divergent Projection Analysis for Unsupervised Dimensionality Reduction. **2022**, 199, 384-391
- 670 Estimation of Filtration Properties of Host Rocks in Sandstone-type Uranium Deposits Us-ing Machine Learning Methods. **2022**, 1-1 0
- 669 SOUND OF(F): Contextual Storytelling Using Machine Learning Representations of Sound and Music. **2022**, 332-345
- 668 DCT Based Deep Learning of Polarimetric Scattering From a Dielectric Cylinder. **2022**, 1-1
- 667 What You Like, What I Am: Online Dating Recommendation via Matching Individual Preferences with Features. **2022**, 1-1 1
- 666 Predicting Cancer Lymph-node Metastasis from LncRNA Expression Profiles using Local Linear Reconstruction Guided Distance Metric Learning.. **2022**, PP, 0
- 665 An introduction to data mining in social networks. **2022**, 1-25
- 664 Mathematics. **2022**, 640-641
- 663 Graph convolutional networks. **2022**, 71-99 1

662	Effects of age, gender, and hemisphere on cerebrovascular hemodynamics in children and young adults: Developmental scores and machine learning classifiers.. <b>2022</b> , 17, e0263106	
661	A Review on Data-Driven Process Monitoring Methods: Characterization and Mining of Industrial Data. <b>2022</b> , 10, 335	4
660	Social Media Sentiment Analysis Based on Dependency Graph and Co-occurrence Graph.	2
659	EMBEDR: Distinguishing signal from noise in single-cell omics data.. <b>2022</b> , 3, 100443	2
658	MoRE: Multi-output residual embedding for multi-label classification. <b>2022</b> , 126, 108584	1
657	A Class-Driven Approach to Dimension Embedding. <b>2022</b> , 195, 116650	0
656	Data-Driven Shape Memory Alloy Discovery using Artificial Intelligence Materials Selection (AIMS) Framework. <b>2022</b> , 228, 117751	1
655	Quantum algorithm for Neighborhood Preserving Embedding.	0
654	Nonlinear Reaction Coordinate of an Enzyme Catalyzed Proton Transfer Reaction.. <b>2022</b> ,	0
653	A Novel Framework for Fast Feature Selection Based on Multi-Stage Correlation Measures. <b>2022</b> , 4, 131-149	
652	Machine learning-based reduced-order modeling and predictive control of nonlinear processes. <b>2022</b> , 179, 435-451	1
651	Identification of DNA modification sites based on elastic net and bidirectional gated recurrent unit with convolutional neural network. <b>2022</b> , 75, 103566	1
650	Feature Extraction of High-dimensional Data Based on J-HOSVD for Cyber-Physical-Social Systems. <b>2022</b> , 13, 1-21	1
649	Classification and Inverse Design of Metasurface Absorber in Visible Band. 2100338	
648	Analyzing Grid-Based Direct Quantum Molecular Dynamics Using Non-Linear Dimensionality Reduction.. <b>2021</b> , 26,	1
647	Local-dictionary Sparsity Discriminant Preserving Projections for Rotating Machinery Fault Diagnosis based on Pre-selected Multi-domain Features. <b>2022</b> , 1-1	1
646	A Geometrically Inspired Quantification Approach for Valve Stiction Using Riemannian Logarithmic Map.	
645	Unsupervised Spectral-Spatial Semantic Feature Learning for Hyperspectral Image Classification. <b>2022</b> , 1-1	2

- 644 Robust Spectral Clustering via the Ordering Metric. **2022**, 863-873
- 643 A Unified Framework for Bidirectional Prototype Learning from Contaminated Faces across Heterogeneous Domains. **2022**, 1-1 1
- 642 Bayesian Uncertainty and Expected Gradient Length - Regression: Two Sides Of The Same Coin?. **2022**,
- 641 Automated surface mapping via unsupervised learning and classification of Mercury Visible-Near-Infrared reflectance spectra. **2022**, 131-149
- 640 Structure Guided Deep Neural Network for Unsupervised Active Learning.. **2022**, PP, 1
- 639 Heterogeneous Graph Representation Learning with Relation Awareness. **2022**, 1-1 1
- 638 Registration of Human Point Set using Automatic Key Point Detection and Region-aware Features. **2022**, 0
- 637 Divergence Regulated Encoder Network for Joint Dimensionality Reduction and Classification. **2022**, 19, 1-5
- 636 Unsupervised Dimensionality Reduction for Hyperspectral Imagery via Laplacian Regularized Collaborative Representation Projection. **2022**, 19, 1-5 2
- 635 A Graph Attribute Aggregation Method based on Feature Engineering. 1
- 634 Introduction to the Python Hyperspectral Analysis Tool (PyHAT). **2022**, 55-90
- 633 Signaling repurposable drug combinations against COVID-19 by developing the heterogeneous deep herb-graph method.. **2022**,
- 632 Fast Locality Discriminant Analysis with Adaptive Manifold Embedding.. **2022**, PP, 0
- 631 Nonlinear Dimension Reduction by PDF Estimation. **2022**, 70, 1493-1505 0
- 630 Principal component density estimation for scenario generation using normalizing flows. **2022**, 3, 0
- 629 Exploiting Knowledge Graph for Multi-faceted Conceptual Modelling using GCN. **2022**, 200, 1174-1183 0
- 628 Data Mining based Dimensionality Reduction Techniques. **2022**, 2
- 627 How to Realize Efficient and Scalable Graph Embeddings via an Entropy-driven Mechanism. **2022**, 1-1

626 Convolutional Locality-Sensitive Dictionary Learning for Facial Expressions Detection. **2022**, 3, 1-28

625 Mathematical Foundations of AIM. **2022**, 37-54

624 Low-rank Tensor Based Proximity Learning for Multi-view Clustering. **2022**, 1-1

1

623 Generalized Clustering and Multi-Manifold Learning with Geometric Structure Preservation. **2022**,

O

622 Fréchet Sufficient Dimension Reduction for Random Objects.

1

621 Applications and Comparison of Dimensionality Reduction Methods for Microbiome Data. **2022**, 2,

1

620 Sparse nonlinear dimension reduction algorithm. **2022**,

619 A machine learning tutorial for spatial auditory display using head-related transfer functions.. **2022**, 151, 1277

1

618 Single-cell RNA sequencing data analysis based on non-uniform  $\ell$ -neighborhood network.. **2022**,

1

617 TRSD: A Time-Varying and Region-Changed Speech Database for Speaker Recognition. 1

O

616 A Diagnosis Framework for High-reliability Equipment with Small Sample Based on Transfer Learning. **2022**, 2022, 1-15

O

615 Data Centric Design: A New Approach to Design of Microstructural Material Systems. **2022**,

1

614 An ABGE-aided manufacturing knowledge graph construction approach for heterogeneous IIoT data integration. 1-15

O

613 Robust Latent Common Subspace Learning for Transferable Feature Representation. **2022**, 11, 810

O

612 An Empirical Evaluation of Network Representation Learning Methods.. **2022**,

611 Overview of advanced technologies for volatile organic compounds measurement in food quality and safety.. **2022**, 1-23

O

610 An unsupervised multi-manifold discriminant isomap algorithm based on the pairwise constraints. **2022**, 13, 1317-1336

609 Distinguishing Homophily from Peer Influence Through Network Representation Learning.

608	Grassmannian diffusion maps based surrogate modeling via geometric harmonics.	1
607	Mixed Gaussian-Impulse noise robust face hallucination via noise suppressed low-and-high resolution space-based neighbor representation. 1	3
606	SCAPE: a mixture model revealing single-cell polyadenylation diversity and cellular dynamics during cell differentiation and reprogramming.. <b>2022</b> ,	1
605	Evading Generated-Image Detectors: A Deep Dithering Approach. <b>2022</b> , 108558	
604	Privacy-preserving quality control of neuroimaging datasets in federated environments.. <b>2022</b> ,	1
603	Differential correlation across subpopulations of single cells in subtypes of acute myeloid leukemia.	
602	Model Reduction Through Progressive Latent Space Pruning in Deep Active Inference.. <b>2022</b> , 16, 795846	
601	Manifold-Based Multi-Deep Belief Network for Feature Extraction of Hyperspectral Image. <b>2022</b> , 14, 1484	1
600	Enhancing Characteristic Gene Selection and Tumor Classification by the Robust Laplacian Supervised Discriminative Sparse PCA.. <b>2022</b> ,	1
599	Supervised Capacity Preserving Mapping: A Clustering Guided Visualization Method for scRNAseq data.. <b>2022</b> ,	0
598	DeSIDE-DDI: interpretable prediction of drug-drug interactions using drug-induced gene expressions.. <b>2022</b> , 14, 9	1
597	The line of fifths and the co-evolution of tonal pitch-classes. 1-25	1
596	Grassmannian Diffusion Maps--Based Dimension Reduction and Classification for High-Dimensional Data. <b>2022</b> , 44, B250-B274	1
595	Using machine learning and Maya to identify free-range wild giant panda. <b>2022</b> ,	
594	Learning a perceptual manifold with deep features for animation video resequencing. 1	
593	WoT -based Gaussian process multi-view learning for real-time monitoring and identification.	
592	Disentangled Inference for GANs With Latently Invertible Autoencoder. 1	2
591	Refining electronic medical records representation in manifold subspace.. <b>2022</b> , 23, 115	1

- 590 Interpolation-based Nonrigid Deformation Estimation Under Manifold Regularization Constraint. **2022**, 108695 0
- 589 A practical evaluation of machine learning for classification of ultrasound images of ovarian development in channel catfish .. **2022**, 552, 3
- 588 Geometric machine learning: research and applications. 1
- 587 Decoding clinical biomarker space of COVID-19: Exploring matrix factorization-based feature selection methods.. **2022**, 146, 105426 5
- 586 Self-paced collaborative representation with manifold weighting for hyperspectral anomaly detection. **2022**, 13, 599-610 0
- 585 A Novel Method for Fast Kernel Minimum Noise Fraction Transformation in Hyperspectral Image Dimensionality Reduction. **2022**, 14, 1737 0
- 584 An investigation on the coupling of data-driven computing and model-driven computing. **2022**, 393, 114798 2
- 583 A novel unsupervised multiple feature hashing for image retrieval and indexing (MFHIRI). **2022**, 84, 103467 1
- 582 T-copula and Wasserstein distance-based stochastic neighbor embedding. **2022**, 243, 108431 0
- 581 You are what the permissions told me! Android malware detection based on hybrid tactics. **2022**, 66, 103159 1
- 580 A survey of outlier detection in high dimensional data streams. **2022**, 44, 100463 3
- 579 An algorithm for network community structure determination by surprise. **2022**, 595, 127063 0
- 578 OLMNE+FT: Multiplex network embedding based on overlapping links. **2022**, 596, 127116
- 577 Unsupervised feature selection via adaptive autoencoder with redundancy control.. **2022**, 150, 87-101 0
- 576 Attention-based explainable friend link prediction with heterogeneous context information. **2022**, 597, 211-229 0
- 575 Single-particle optimization for network embedding preserving both local and global information. **2022**, 71, 101069 0
- 574 Manifold biomedical text sentence embedding. **2022**, 492, 117-125
- 573 Image declipping: Saturation correction in single images. **2022**, 127, 103537



- 572 Allying topology and shape optimization through machine learning algorithms. **2022**, 204, 103719 1
- 571 Node-Feature Convolution for Graph Convolutional Networks. **2022**, 128, 108661 1
- 570 Scalable Representation Learning for Dynamic Heterogeneous Information Networks via Metagraphs. **2022**, 40, 1-27 0
- 569 A Graph Embedding Method Based on Opinion Dynamics. **2021**,
- 568 Short-Term Load Forecasting Based on Modified Locally Linear Embedding Using Multiple Weights. **2021**,
- 567 Online Tensor Decomposition for Hyperspectral Data Representation. **2021**,
- 566 Fault Diagnosis for Marine Main Engines using Improved Semi-Supervised Locally Linear Embedding. **2021**, 0
- 565 LP-UIT: A Multimodal Framework for Link Prediction in Social Networks. **2021**,
- 564 Adaptively Attribute-enhanced Graph Embedding via Deep Clustering Constraints. **2021**,
- 563 Tune it the Right Way: Unsupervised Validation of Domain Adaptation via Soft Neighborhood Density. **2021**, 2
- 562 Superpixel Based Face Sketch Recognition Scheme. **2021**,
- 561 Structure-Preserving Deep Autoencoder-based Dimensionality Reduction for Data Visualization. **2021**,
- 560 Research on Face Image Digital Processing and Recognition Based on Data Dimensionality Reduction Algorithm.. **2021**, 2021, 3348225 1
- 559 Implementation of Digital Forensics Face Sketch Recognition using Fusion Based Deep Learning Convolution Neural Network. **2021**,
- 558 Fuzzy c-Means Clustering with Discriminative Projection. **2021**,
- 557 Spatial voting models in circular spaces: A case study of the U.S. House of Representatives. **2021**, 15,
- 556 Dimensionality Reduction and Visualization of Bharatanatyam Mudras. 0
- 555 Quantum algorithm for Laplacian eigenmap via Rayleigh quotient iteration. **2022**, 21, 1 0

- 554 Weighted Hybrid Feature Reduction Embedded with Ensemble Learning for Speech Data of Parkinson's Disease. **2021**, 9, 3172 1
- 553 Determination of PM1 Sources at a Prague Background Site during the 2012-2013 Period Using PMF Analysis of Combined Aerosol Mass Spectra. **2022**, 13, 20
- 552 Deep learning tackles single-cell analysis-a survey of deep learning for scRNA-seq analysis.. **2021**, 0
- 551 A Manifold Constrained Multi-Head Self-Attention Variational Autoencoder Method for Hyperspectral Anomaly Detection. **2021**, 1
- 550 Novel SVM based SMOTE integrated LPP Dimensionality Reduction Method for Imbalanced Samples Fault Diagnosis. **2021**, 1
- 549 Detecting geospatial location descriptions in natural language text. **2022**, 36, 547-584 3
- 548 Deep Metric Learning for Human Action Recognition with SlowFast Networks. **2021**, 0
- 547 A Prediction Model of Domestic Animated Films and Audience Psychology Based on Facial Expression Recognition. **2021**,
- 546 Hierarchical Boosting Dual-Stage Feature Reduction Ensemble Model for Parkinson's Disease Speech Data.. **2021**, 11, 0
- 545 Dynamic Social Network Embedding Based on Triadic Closure Pattern Analysis. **2021**,
- 544 Large Margin Graph Embedding-Based Discriminant Dimensionality Reduction. **2021**, 2021, 1-12 1
- 543 A Data Mining Method For Improving the Prediction Of Bioinformatics Data. **2021**, 2137, 012067
- 542 Topology Structure Analysis of High Dimensional Dataset by Flattening Deformation of Data Manifold. **2021**, 15, 161-164
- 541 Predicting Poverty through Machine Learning and Satellite Images. **2021**,
- 540 Prediction of Neoadjuvant Chemoradiotherapy Response in Rectal Cancer with Metric Learning Using Pretreatment 18F-Fluorodeoxyglucose Positron Emission Tomography.. **2021**, 13, 0
- 539 The Effect of Spatial Frequency on the Visual Category Representation in the Macaque Inferior Temporal Cortex.
- 538 Manifold Learning Projection Quality Quantitative Evaluation. **2021**,
- 537 Examining and Evaluating Dimension Reduction Algorithms for Classifying Alzheimer's Diseases using Gene Expression Data. **2021**,

536	Big Data - Supply Chain Management Framework for Forecasting: Data Preprocessing and Machine Learning Techniques.	
535	OUP accepted manuscript.	
534	An Advanced Artificial Intelligence System for Identifying the Near-Core Impact Features to Tropical Cyclone Rapid Intensification from the ERA-Interim Data. <b>2022</b> , 13, 643	0
533	ripple2vec: Node Embedding with Ripple Distance of Structures. <b>2022</b> , 7, 156	4
532	Low-rank isomap algorithm.	0
531	Efficient manifold approximation with spherelets.	
530	Comparison of Manifold Learning Algorithms for Rapid Circuit Defect Extraction in SPICE-Augmented Machine Learning. <b>2022</b> ,	
529	Modal clustering on PPGMMGA projection subspace.	0
528	Condition Monitoring of Mechanical Components Based on MEMED-NLOPE under Multiscale Features. <b>2022</b> , 2022, 1-18	
527	Multi-manifold Discriminant Local Spline Embedding. <b>2022</b> , 108714	
526	Performing Locally Linear Embedding with Adaptable Neighborhood Size on Manifold. <b>2006</b> , 985-989	
525	Clustering-Based Nonlinear Dimensionality Reduction on Manifold. 444-453	
524	Generating Creative Ideas Through Patents. 681-690	
523	Geodesic Gabriel Graph Based Supervised Nonlinear Manifold Learning. 882-887	
522	MULTIPLE TESTING VIA FDR FOR LARGE SCALE IMAGING DATA. <b>2011</b> , 39, 613-642	9
521	Data_Sheet_1.PDF. <b>2018</b> ,	
520	Data_Sheet_1.PDF. <b>2020</b> ,	
519	Data_Sheet_1.docx. <b>2019</b> ,	

- 518 Machine Learning in Financial Markets: Dimension Reduction and Support Vector Machine. **2022**, 199-223
- 517 Temporal Network Embedding with Motif Structural Features. **2022**, 665-681
- 516 Information Fusion Based on Score/Weight Classifier Fusion. **2022**, 175-196 o
- 515 Matrix Factorization and Topic Modeling. **2022**, 33-74
- 514 Hyper-Laplacian Regularized Nonconvex Low-Rank Representation for Multi-View Subspace Clustering. **2022**, 8, 376-388
- 513 Multi-manifold Deep Discriminative Cross-modal Hashing for Medical Image Retrieval.. **2022**, PP, o
- 512 GraFT: Graph Filtered Temporal Dictionary Learning for Functional Neural Imaging.. **2022**, 31, 3509-3524 1
- 511 Adaptive Regularized Multi-Attribute Fuzzy Distance Learning for Predicting Adverse Drug-Drug Interaction. **2022**, 1-1
- 510 GAN-based deep neural networks for graph representation learning. o
- 509 High-Dimensional Fluctuations in Liquid Water: Combining Chemical Intuition with Unsupervised Learning.. **2022**, 2
- 508 Locally fitting hyperplanes to high-dimensional data. **2022**, 34, 8885
- 507 Domain Transferred Image Recognition via Generative Adversarial Network. **2022**, 2022, 1-11
- 506 Reduced Order Modeling Using Advection-Aware Autoencoders. **2022**, 27, 34 1
- 505 A Self-Representation Method with Local Similarity Preserving for Fast Multi-View Outlier Detection. o
- 504 Real-time inflation forecasting using non-linear dimension reduction techniques. **2022**, o
- 503 A Distance-Preserving Matrix Sketch. 1-15
- 502 Person re-identification via semi-supervised adaptive graph embedding.. **2022**, 1-17 2
- 501 Fault diagnosis of rotor based on Semi-supervised Multi-Graph Joint Embedding. **2022**, 2

- 500 Graph optimization for unsupervised dimensionality reduction with probabilistic neighbors. 1
- 499 Temporal PHATE: A multi-view manifold learning method for brain state trajectories. 0
- 498 Robust Video Hashing Based on Local Fluctuation Preserving for Tracking Deep Fake Videos. **2022**,
- 497 Short-Term Power Load Forecasting Model Based on t-SNE Dimension Reduction Visualization Analysis, VMD and LSSVM Improved with Chaotic Sparrow Search Algorithm Optimization. 1 0
- 496 Double information preserving canonical correlation analysis. **2022**, 112, 104870
- 495 Unconstrained face sketch synthesis via perception-adaptive network and a new benchmark. **2022**, 494, 192-202 0
- 494 Improving neural network robustness through neighborhood preserving layers. **2022**, 123, 104469 0
- 493 Deep Isometric Maps. **2022**, 123, 104461 0
- 492 A survey of structural representation learning for social networks. **2022**, 496, 56-71 0
- 491 Thermal heat distribution features for hand identification. **2022**, 203, 117462
- 490 Regularization for Nonlinear System Identification. **2022**, 313-342 0
- 489 Adaptive distance penalty based nonnegative low-rank representation for semi-supervised learning.
- 488 Manifold embedding data-driven mechanics. **2022**, 104927 0
- 487 Can Targeted Source Information be Extracted from Superimposed Magnetic Anomalies?. 1
- 486 Using HMM to Model Neural Dynamics and Decode Useful Signals for Neuroprosthetic Control. **2022**, 59-79
- 485 Feature Selection: A Review and Comparative Study. **2022**, 351, 01046 1
- 484 Digital modelling layer: two digital modelling methodsPART 1: SCAN-TO-BIM APPROACHES: REVIEW IN A HOLISTIC WORKFLOWPART 2: REVIEW OF GEOMETRIC DIGITAL TWINNING APPROACHES BASED ON PHOTOGRAMMETRY. **2022**, 101-159
- 483 A survey of unsupervised learning methods for high-dimensional uncertainty quantification in black-box-type problems. **2022**, 111313 0

482 Interpretable Embedding and Visualization of Compressed Data.

481 Evolving Deep Neural Networks with Cultural Algorithms for Real-Time Industrial Applications. 1-32

o

480 Shape-supervised Dimension Reduction: Extracting Geometry and Physics Associated Features with Geometric Moments. **2022**, 103327

2

479 Structural damage detection via phase space based manifold learning under changing environmental and operational conditions. **2022**, 263, 114420

o

478 Multi-view unsupervised dimensionality reduction with probabilistic neighbors. **2022**, 500, 203-216

477 A Boundary Aware WiFi Localization Scheme based on UMAP and KNN. **2022**, 1-1

476 A Detailed Schematic Study on Feature Extraction Methodologies and Its Applications: A Position Paper. **2022**, 585-602

475 Recognition of Trip-Based Aggressive Driving: A System Integrated With Gaussian Mixture Model Structured of Factor-Analysis, and Hierarchical Clustering. **2022**, 1-10

1

474 Using Hybrid Scatterplots for Visualizing Multi-dimensional Data. **2022**, 517-538

473 Glasdi: Parametric Physics-Informed Greedy Latent Space Dynamics Identification.

o

472 Real-time prediction by data-driven models applied to induction heating process. **2022**, 15,

471 Machine Learning Advances in Microbiology: A Review of Methods and Applications. **2022**, 13,

o

470 Network Representation Learning With Community Awareness and Its Applications in Brain Networks. **2022**, 13,

469 Multi-View Graph Clustering by Adaptive Manifold Learning. **2022**, 10, 1821

2

468 Dimensionality reduction method based on Similarity Balance Discriminant Projection for bearing fault diagnosis.

o

467 Natural gas pipeline leak diagnosis based on improved variational modal decomposition and locally linear embedding feature extraction method. **2022**,

o

466 Coupled Heterogeneous Tucker Decomposition: A Feature Extraction Method for Multisource Fusion and Domain Adaptation Using Multisource Heterogeneous Remote Sensing Data. **2022**, 14, 2553

465 A Hashing-Based Framework for Enhancing Cluster Delineation of High-Dimensional Single-Cell Profiles.

- 464 Inverse estimation of parameters for the magnetic domain via dynamics matching using visual-perceptive similarity.
- 463 Semi-supervised multi-view clustering with dual hypergraph regularized partially shared non-negative matrix factorization. o
- 462 Semantic Segmentation of Multispectral Images via Linear Compression of Bands: An Experiment Using RIT-18. **2022**, 14, 2673
- 461 Multiview Locally Linear Embedding for Spectral-Spatial Dimensionality Reduction of Hyperspectral Imagery. **2022**, 9, 1091-1094 o
- 460 Multi-dictionary induced low-rank representation with multi-manifold regularization. o
- 459 Density-based Structural Embedding for Anomaly Detection in Dynamic Networks. **2022**,
- 458 Loop Closure Detection With Reweighting NetVLAD and Local Motion and Structure Consensus. **2022**, 9, 1087-1090 4
- 457 Projected Fuzzy C-Means with Probabilistic Neighbors. **2022**, o
- 456 Spectral clustering of single-cell multi-omics data on multilayer graphs.
- 455 Enhance Explainability of Manifold Learning. **2022**, 2
- 454 Adaptively Discriminant Locality Preserving Projection. **2021**,
- 453 A Projective Noise Reduction Algorithm Based on Laplacian Smoothing. **2021**,
- 452 Neural Network Optimization with Biologically Inspired Low-Dimensional Manifold Learning. **2021**,
- 451 A Divisive Hierarchical Clustering Approach to Hyperspectral Band Selection. **2022**, 1-1 1
- 450 Statistical Process Monitoring based on Collaboration Preserving Embedding. **2022**, 1-1
- 449 Enhanced Metagenomic Deep Learning for Disease Prediction and Reproducible Signature Identification by Restructured Microbiome 2D-Representations.
- 448 BOSO: A novel feature selection algorithm for linear regression with high-dimensional data. **2022**, 18, e1010180 o
- 447 ANGraph: attribute-interactive neighborhood-aggregative graph representation learning. o

446 Document clustering.

445 Subspace embedding for classification.

444 Hyperspectral imagery classification with minimum noise fraction, 2D spatial filtering and SVM.

443 Data-driven nonlinear model reduction to spectral submanifolds in mechanical systems. **2022**, 380, 2

442 A Survey on Dynamic Fuzzy Machine Learning.

441 Complexity visualization, dataset acquisition, and machine-learning perspectives for low-temperature plasma: a review. o

440 Exploration of the oxidation and ablation resistance of ultra-high-temperature ceramic coatings using machine learning. **2022**,

439 Adaptive graph regularized and label embedded dictionary learning for pattern classification. **2022**, 31, o

438 Global-locality preserving projection for word embedding. o

437 Assessment of spectral reduction techniques for endmember extraction in unmixing of hyperspectral images. **2022**,

436 Automated screening of COVID-19 using two-dimensional variational mode decomposition and locally linear embedding. **2022**, 103889 1

435 SWTNet: hyperspectral image classification using two-stage combined shallow and deep feature extraction. o

434 Active learning-assisted semi-supervised learning for fault detection and diagnostics with imbalanced dataset. 1-15 o

433 PSIDP: Unsupervised Deep Hashing with Pretrained Semantic Information Distillation and Preservation. **2022**,

432 Supervised learning of explicit maps with ability to correct distortions in the target output for manifold learning. **2022**,

431 Graph Refinement via Simultaneously Low-Rank and Sparse Approximation. **2022**, 44, A1525-A1553

430 The chemical process monitoring method based on temporal extended orthogonal neighbourhood preserving embedding (TONPE).

429 A two-scale manifold learning method for spatiotemporal modeling of lithium-ion battery thermal process.



- 428 Social Network Analysis: A Survey on Measure, Structure, Language Information Analysis, Privacy, and Applications.
- 427 Geometrical structure preservation joint with self-expression maintenance for adaptive graph learning. **2022**, 501, 436-450
- 426 Locality preserving projection with symmetric graph embedding for unsupervised dimensionality reduction. **2022**, 131, 108844 1
- 425 HTGCE: An Graph-based and Classifier-oriented Dimension Reduction Method for Multisource Heterogeneous Feature Tensors. **2022**, 1-1 1
- 424 Neuronal Parameter Space Visualization. **2022**, 2405-2407
- 423 Applications of Information Theory to Analysis of Neural Data. **2022**, 222-226
- 422 Research on Application of Principal Component Analysis in 3d Video Dimension Reduction. **2022**, 16-26
- 421 Manifold Enhanced 2-D Fuzzy Subspace Clustering for Image Data. **2022**, 1-12
- 420 Fault Diagnosis for Multilevel Converters Based on an Affine-Invariant Riemannian Metric Autoencoder. **2022**, 1-9
- 419 Spike Train Distance. **2022**, 3232-3245
- 418 Slow Manifold Analysis-Based Detection of Hot Spots in Photovoltaic Systems. **2022**, 71, 1-10 1
- 417 Deep Convolutional Neural Network-Based Recognition of Profile Rotated Face Images. **2022**,
- 416 Machine Learning for Antimicrobial Resistance Research and Drug Development.
- 415 Fast Computation of Generalized Eigenvectors for Manifold Graph Embedding. **2022**,
- 414 An optimized Graph Embedding based Knowledge Graph Cleaning Algorithm. **2022**,
- 413 Topologically-Informed Atlas Learning. **2022**,
- 412 Extending generalized unsupervised manifold alignment. **2022**, 65,
- 411 Exploring the Tropical Pacific Manifold in Models and Observations. **2022**, 12,

- 410 A guided multiverse study of neuroimaging analyses. **2022**, 13, 1
- 409 A\*-FastIsomap: An Improved Performance of Classical Isomap Based on A\* Search Algorithm.
- 408 Latent Low-Rank Projection Learning with Graph Regularization for Feature Extraction of Hyperspectral Images. **2022**, 14, 3078
- 407 A robust optimal mean cosine angle 2DPCA for image feature extraction. 1
- 406 Hagrid: using Hilbert and Gosper curves to gridify scatterplots.
- 405 Discriminative aging subspace learning for age estimation.
- 404 A Domain-Adapted Machine Learning Approach for Visual Evaluation and Interpretation of Robot-Assisted Surgery Skills. **2022**, 7, 8202-8208 1
- 403 Data-driven reduced-order modeling of spatiotemporal chaos with neural ordinary differential equations. **2022**, 32, 073110 1
- 402 Structure-Preserving and Batch-Correcting Visualization Using Deep Manifold Transformation for Single-cell RNA-Seq Profiles.
- 401 Learning interpretable shared space via rank constraint for multi-view clustering.
- 400 Panoramic Manifold Projection (Panoramap) for Single-Cell Data Dimensionality Reduction and Visualization. **2022**, 23, 7775 0
- 399 Superpixel-guided Locality Quaternion Representation for Color Face Hallucination. **2022**, 0
- 398 An Integrated Method of Rolling Bearing Fault Diagnosis Based on Convolutional Neural Network Optimized by Sparrow Optimization Algorithm. **2022**, 2022, 1-16
- 397 Effective attributed network embedding with information behavior extraction. 8, e1030
- 396 Simultaneous p- and s-orders minmax robust locality preserving projection.
- 395 Classification of Heterogeneous Mining Areas Based on ResCapsNet and Gaofen-5 Imagery. **2022**, 14, 3216 2
- 394 Bit-aware Semantic Transformer Hashing for Multi-modal Retrieval. **2022**, 0
- 393 A new key performance indicator oriented industrial process monitoring and operating performance assessment method based on improved Hessian locally linear embedding. 1-18 3

392	Human identification based on Gait Manifold.	0
391	The effects of spectral dimensionality reduction on hyperspectral pixel classification: A case study. <b>2022</b> , 17, e0269174	
390	A geometrically inspired quantification approach for valve stiction using Riemannian logarithmic map. <b>2022</b> , 199, 111562	1
389	SQuadMDS: A lean Stochastic Quartet MDS improving global structure preservation in neighbor embedding like t-SNE and UMAP. <b>2022</b> , 503, 17-27	
388	Review of Artificial Intelligence and Machine Learning Technologies: Classification, Restrictions, Opportunities and Challenges. <b>2022</b> , 10, 2552	1
387	Material Forming Digital Twins: The Alliance between Physics-Based and Data-Driven Models. 926, 3-14	0
386	DeepAdversaries: examining the robustness of deep learning models for galaxy morphology classification. <b>2022</b> , 3, 035007	1
385	Application of Adaptive Laplacian Eigenmaps in Near Infrared Spectral Modeling. <b>2022</b> , 121630	
384	Machine Learning for Electrocatalyst and Photocatalyst Design and Discovery.	5
383	Context-guided entropy minimization for semi-supervised domain adaptation. <b>2022</b> ,	1
382	Quality-Relevant Process Monitoring with Concurrent Locality-Preserving Dynamic Latent Variable Method.	
381	Feature extraction and health status prediction in PV systems. <b>2022</b> , 53, 101696	
380	Unsupervised manifold learning with polynomial mapping on symmetric positive definite matrices. <b>2022</b> , 609, 215-227	0
379	Unsupervised dimensionality reduction by jointing dynamic hypergraph and low-rank embedding for classification and clustering. <b>2022</b> , 208, 118225	
378	Copyright Page. <b>2011</b> , iv-iv	
377	Foreword. <b>2011</b> , vii-viii	
376	Dedication. <b>2011</b> , v-vi	
375	List of abbreviations. <b>2011</b> , xix-xx	

374 Epigraph. **2011**, xi-xii

373 Author's Preface. **2011**, ix-x

372 Spectral-Spatial Feature Extraction with Dual Graph Autoencoder for Hyperspectral Image Clustering. **2022**, 1-1 2

371 Classifying EEG Signals of Mind-Wandering Across Different Styles of Meditation. **2022**, 152-163 0

370 Few-Shot Learning With Class-Covariance Metric for Hyperspectral Image Classification. **2022**, 31, 5079-5092 7

369 Manifold Learning-Based CSI Feedback in Massive MIMO Systems. **2022**,

368 HyperNP: Interactive Visual Exploration of Multidimensional Projection Hyperparameters. **2022**, 41, 169-181

367 False Data Injection Attack Detection Based on Local Linear Embedding and Extreme Learning Machine. **2022**,

366 Nonparametric locality reforming projection for linear discriminative dimensionality reduction. **2022**, 31,

365 A Dimensionality Reduction and Reconstruction Method for Data with Multiple Connected Components. **2022**,

364 AI-Enabled Intelligent Visible Light Communications: Challenges, Progress, and Future. **2022**, 9, 529 1

363 Fault monitoring of batch process based on multi-stage optimization regularized neighborhood preserving embedding algorithm. 014233122211085

362 Integration of computational analysis and spatial transcriptomics in single-cell study. **2022**, 1

361 Facial-sketch Synthesis: A New Challenge. **2022**, 19, 257-287 1

360 Addressing Label Ambiguity Imbalance in Candidate Labels: Measures and Disambiguation Algorithm. **2022**,

359 Fault Diagnosis of Rotating Machinery Based on Local Centroid Mean Local Fisher Discriminant Analysis.

358 Submodular Feature Selection for Partial Label Learning. **2022**,

357 Dimensionality Reduction in Surrogate Modeling: A Review of Combined Methods. 1

356	Optimal recovery of precision matrix for Mahalanobis distance from high-dimensional noisy observations in manifold learning.	1
355	Training Process of Unsupervised Learning Architecture for Gravity Spy Dataset. 2200140	
354	Improved prediction of gene expression through integrating cell signalling models with machine learning. <b>2022</b> , 23,	0
353	Quantification of Valve Stiction in Control Loops Using the Bayesian Approach on the Riemannian Manifold. <b>2022</b> , 61, 11880-11897	
352	Deep autoencoder based hybrid dimensionality reduction approach for classification of SERS for melanoma cancer diagnostics. <b>2022</b> , 1-15	0
351	Graph-based Multilingual Language Model. <b>2022</b> ,	
350	Scalability and robustness of spectral embedding: landmark diffusion is all you need.	1
349	Precision dynamical mapping using topological data analysis reveals a hub-like transition state at rest. <b>2022</b> , 13,	0
348	Characteristics of Kepler Eclipsing Binaries Displaying a Significant O'Connell Effect. <b>2022</b> , 262, 10	1
347	Time-series forecasting using manifold learning, radial basis function interpolation, and geometric harmonics. <b>2022</b> , 32, 083113	0
346	Visualizing Conformational Space of Functional Biomolecular Complexes by Deep Manifold Learning. <b>2022</b> , 23, 8872	0
345	A Comparison of Three Different Group Intelligence Algorithms for Hyperspectral Imagery Classification. <b>2022</b> , 10, 1672	0
344	MFHE: Multi-View Fusion-Based Heterogeneous Information Network Embedding. <b>2022</b> , 12, 8218	
343	A comprehensive overview of knowledge graph completion. <b>2022</b> , 109597	0
342	Cost function for low-dimensional manifold topology assessment. <b>2022</b> , 12,	1
341	Core patent forecasting based on graph neural networks with an application in stock markets. 1-15	
340	Dimensionality reduction for visualizing high-dimensional biological data. <b>2022</b> , 220, 104749	0
339	Robust discriminative projection with dynamic graph regularization for feature extraction and classification. <b>2022</b> , 253, 109563	

- 338 Patent representation learning with a novel design of patent ontology: Case study on PEM patents. **2022**, 183, 121912
- 337 Deep attributed network representation learning via attribute enhanced neighborhood. **2022**, 508, 170-181 ○
- 336 ELP: Link prediction in social networks based on ego network perspective. **2022**, 605, 128008 ○
- 335 METranSE: Manifold-like mechanism enhanced embedding for reasoning over knowledge graphs. **2022**, 209, 118288 1
- 334 Manifold-based unsupervised metric Learning, with applications in individualized predictions based on functional connectivity. **2023**, 79, 104081
- 333 Mixed noise face hallucination via adaptive weighted residual and nuclear-norm regularization. ○
- 332 Robust unsupervised feature selection via sparse and minimum-redundant subspace learning with dual regularization. **2022**, 511, 1-21 ○
- 331 Machine learning in aerodynamic shape optimization. **2022**, 134, 100849 1
- 330 Graph prototypical contrastive learning. **2022**, 612, 816-834 ○
- 329 DEEPStack-RBP: Accurate identification of RNA-binding proteins based on autoencoder feature selection and deep stacking ensemble classifier. **2022**, 256, 109875 ○
- 328 HyperNTF: A hypergraph regularized nonnegative tensor factorization for dimensionality reduction. **2022**, 512, 190-202 ○
- 327 Dimensionality reduction to improve search time and memory footprint in content-retrieval tasks: Application to semiconductor inspection images. **2022**, 5, 100097 ○
- 326 Low-rank 2D local discriminant graph embedding for robust image feature extraction. **2023**, 133, 109034 1
- 325 Unsupervised learning. **2023**, 153-181 ○
- 324 Machine learning: An overview. **2023**, 135-151 ○
- 323 Network Embedding Via Deep Prediction Model. **2022**, 1-16 ○
- 322 SSMD: Dimensionality Reduction and Classification of Hyperspectral Images Based on SpatialSpectral Manifold Distance Metric Learning. **2022**, 60, 1-16 1
- 321 Incorporation of Human Knowledge Into Data Embeddings to Improve Pattern Significance and Interpretability. **2022**, 1-11 ○

320	Locally Linear Embedding Discriminant Feature Learning Model. <b>2022</b> , 3-14	0
319	Using Meta Path Information to Adjust Embedded Recommendation System. <b>2022</b> , 57-71	0
318	Deep Discriminative Feature Models (DDFMs) for Set Based Face Recognition and Distance Metric Learning. <b>2022</b> , 1-14	1
317	Manifold Learning via Linear Tangent Space Alignment (LTSA) for Accelerated Dynamic MRI with Sparse Sampling. <b>2022</b> , 1-1	0
316	AcaVis: A Visual Analytics Framework for Exploring Evolution of Dynamic Academic Networks. <b>2022</b> , 499-511	0
315	Neural-Gas VAE. <b>2022</b> , 292-303	0
314	Deep Attributed Graph Embeddings. <b>2022</b> , 181-192	0
313	Feature Reconstruction with Label Correlation for Label Distribution Learning.	0
312	Learning Asymmetric Embedding for Attributed Networks Via Convolutional Neural Network.	0
311	Discriminative Projection Learning with Adaptive Reversed Graph Embedding for Supervised and Semi-supervised Dimensionality Reduction. <b>2022</b> , 1-1	0
310	A Sense of 'Direction' in Biomedical Neural Networks. <b>2022</b> , 77-86	0
309	Machine Learning for Microcontroller-Class Hardware - A Review. <b>2022</b> , 1-1	1
308	Challenges for a Massive Implementation of Phenomics in Plant Breeding Programs. <b>2022</b> , 135-157	0
307	Integrating Constraints into Dimensionality Reduction for Visualization: a Survey. <b>2022</b> , 1-19	0
306	Marginal Fisher Analysis With Polynomial Matrix Function. <b>2022</b> , 10, 102451-102461	0
305	Joint Graph and Reduced Flexible Manifold Embedding for Scalable Semi-Supervised Learning.	0
304	Geodesic Learning With Uniform Interpolation on Data Manifold. <b>2022</b> , 10, 98662-98669	0
303	Boosted Locality Sensitive Hashing: Discriminative, Efficient, and Scalable Binary Codes for Source Separation. <b>2022</b> , 30, 2659-2672	0

302	Unsupervised Graph Embedding via Adaptive Graph Learning. <b>2022</b> , 1-10	1
301	A neural network regularization method to address variance inflation in autoencoders. <b>2022</b> , 55, 744-749	0
300	PC-Expo: A Metrics-Based Interactive Axes Reordering Method for Parallel Coordinate Displays. <b>2022</b> , 1-11	0
299	Instance-Dependent Label-Noise Learning with Manifold-Regularized Transition Matrix Estimation. <b>2022</b> ,	0
298	Contextual Debiasing for Visual Recognition with Causal Mechanisms. <b>2022</b> ,	0
297	Performance-Aware Mutual Knowledge Distillation for Improving Neural Architecture Search. <b>2022</b> ,	0
296	CO-SNE: Dimensionality Reduction and Visualization for Hyperbolic Data. <b>2022</b> ,	0
295	Data-driven efficient solvers for Langevin dynamics on manifold in high dimensions. <b>2023</b> , 62, 261-309	2
294	RUL prediction of machinery using convolutional-vector fusion network through multi-feature dynamic weighting. <b>2023</b> , 185, 109788	1
293	Curvature flow learning: algorithm and analysis. <b>2022</b> , 65,	0
292	Machine learning meets visualization I Experiences and lessons learned. <b>2022</b> , 64, 169-180	0
291	One-Step Multi-view Clustering Based on Low-Rank Tensor Proximity Learning. <b>2022</b> ,	0
290	A dimension reduction in neural network using copula matrix. 1-16	2
289	Manifold classification of neuron types from microscopic images.	0
288	Manifold Learning and Nonlinear Homogenization. <b>2022</b> , 20, 1093-1126	0
287	Dimensionality Reduction and Classification of Hyperspectral Remote Sensing Image Feature Extraction. <b>2022</b> , 14, 4579	3
286	Reducing Smearing Effect in Contribution Plots and Improving Fault Detection via Polynomial Approximated Isomap Embeddings.	0
285	Robust semi-supervised data representation and imputation by correntropy based constraint nonnegative matrix factorization.	0



- 284 Dimensionality Reduction by Similarity Distance-Based Hypergraph Embedding. **2022**, 13, 1449 ○
- 283 An evaluation of how connectopic mapping reveals visual field maps in V1. **2022**, 12, ○
- 282 Retrieving Adversarial Cliques in Cognitive Communities: A New Conceptual Framework for Scientific Knowledge Graphs. **2022**, 14, 262 1
- 281 RegGeoNet: Learning Regular Representations for Large-Scale 3D Point Clouds. ○
- 280 CNN and ensemble learning based wafer map failure pattern recognition based on local property based features. ○
- 279 Protein Function Analysis through Machine Learning. **2022**, 12, 1246 ○
- 278 Self-supervised Discriminative Representation Learning by Fuzzy Autoencoder. ○
- 277 1-DREAM: 1D recovery, extraction and analysis of manifolds in noisy environments. **2022**, 100658 1
- 276 Effective weight function in graphs-based discriminant neighborhood embedding. ○
- 275 Community detection based on competitive walking network embedding method. **2022**, 2022, 093402 ○
- 274 SORAG: Synthetic Data Over-Sampling Strategy on Multi-Label Graphs. **2022**, 14, 4479 ○
- 273 Hyperspectral Band Selection via Band Grouping and Adaptive Multi-Graph Constraint. **2022**, 14, 4379 1
- 272 Manifold reconstruction and denoising from scattered data in high dimension. **2022**, 114818 ○
- 271 MR GİRİTİLERİNDEN ALZHEMER TESPİTİNDE BOYUT AZALTMA VE DERİN BENME YAKLAŞIMLARININ KARILAŞTIRILMASI. ○
- 270 A Smoothed Matrix Multivariate Elliptical Distribution-Based Projection Method for Feature Extraction. **2022**, 2022, 1-12 ○
- 269 Common population codes produce extremely nonlinear neural manifolds. ○
- 268 Feature selection using class-level regularized self-representation. ○
- 267 A combination of supervised dimensionality reduction and learning methods to forecast solar radiation. ○

- 266 Manifold Alignment-Based Nonintrusive and Nonlinear Multifidelity Reduced-Order Modeling. 1-21 o
- 265 Modality-correlation embedding model for breast tumor diagnosis with mammography and ultrasound images. **2022**, 150, 106130 o
- 264 Data Dimensionality Reduction Technique Based on Preservation of Hellinger Divergence. **2022**, 190-198 o
- 263 Outfit Recommendation using Graph Neural Networks via Visual Similarity. **2022**, 208-222 o
- 262 DLME: Deep Local-Flatness Manifold Embedding. **2022**, 576-592 2
- 261 Locally Varying Distance Transform for Unsupervised Visual Anomaly Detection. **2022**, 354-371 o
- 260 A Review of Deep Learning Applications for Railway Safety. **2022**, 12, 10572 2
- 259 Adversarial Manifold Estimation. o
- 258 Application of support vector machine algorithm for early differential diagnosis of prostate cancer. **2022**, o
- 257 Unified feature extraction framework based on contrastive learning. **2022**, 110028 o
- 256 NNNPE: non-neighbourhood and neighbourhood preserving embedding. **2022**, 34, 2615-2629 o
- 255 High-Order Topology-Enhanced Graph Convolutional Networks for Dynamic Graphs. **2022**, 14, 2218 o
- 254 Fair Benchmark for Unsupervised Node Representation Learning. **2022**, 15, 379 o
- 253 Multiplex network infomax: Multiplex network embedding via information fusion. **2022**, o
- 252 A Label Distribution Manifold Learning Algorithm. **2022**, 109112 o
- 251 On component-wise dissimilarity measures and metric properties in pattern recognition. 8, e1106 1
- 250 A Spectral Method for Assessing and Combining Multiple Data Visualizations. o
- 249 Measuring Friendship Closeness: A Perspective of Social Identity Theory. **2022**, o

- 248 Utilities of Artificial Intelligence in Poverty Prediction: A Review. **2022**, 14, 14238 2
- 247 Incorporating social knowledge structures into computational models. **2022**, 13, 0
- 246 Predictive Nanotoxicology. **2022**, 199-250 0
- 245 An Automatic Chinaware Fragments Reassembly Method Framework Based on Linear Feature of Fracture Surface Contour. 0
- 244 Empowering engineering with data, machine learning and artificial intelligence: a short introductory review. **2022**, 9, 0
- 243 Deep locally linear embedding network. **2022**, 0
- 242 Subspace Modeling for Fast Out-Of-Distribution and Anomaly Detection. **2022**, 0
- 241 Cross-domain Prototype Learning from Contaminated Faces via Disentangling Latent Factors. **2022**, 0
- 240 One-step Low-Rank Representation for Clustering. **2022**, 0
- 239 Fast neighborhood reconstruction with adaptive weights learning. **2022**, 110082 0
- 238 Pairwise Constraints Multidimensional Scaling for Discriminative Feature Learning. **2022**, 10, 4059 1
- 237 Reconstructing Computational Dynamics from Neural Measurements with Recurrent Neural Networks. 0
- 236 Attractor and integrator networks in the brain. 2
- 235 Image feature selection embedded distribution differences between classes for convolutional neural network. **2022**, 131, 109715 0
- 234 Image super-resolution: A comprehensive review, recent trends, challenges and applications. **2023**, 91, 230-260 0
- 233 Deep Autoencoder-like NMF with Contrastive Regularization and Feature Relationship Preservation. **2023**, 214, 119051 0
- 232 Adaptive graph representation for clustering. **2022**, 1-1 0
- 231 Dictionary, Structured Low-Rank, and Manifold Learning-Based Reconstruction. **2022**, 249-279 0

- 230 Canonical Correlation Analysis With Low-Rank Learning for Image Representation. **2022**, 31, 7048-7062 o
- 229 A Robust Fault Detection Method Based on Neighborhood Preserving Embedding. **2022**, 71, 1-12 o
- 228 Unsupervised Detection of Sub-Territories of the Subthalamic Nucleus During DBS Surgery with Manifold Learning. **2022**, 1-12 o
- 227 Impact of signal-to-noise ratio and bandwidth on graph Laplacian spectrum from high-dimensional noisy point cloud. **2022**, 1-1 o
- 226 Unsupervised feature selection via discrete spectral clustering and feature weights. **2023**, 517, 106-117 o
- 225 Cross-domain structure learning for visual data recognition. **2023**, 134, 109127 o
- 224 An improved feature extraction method using low-rank representation for motor imagery classification. **2023**, 80, 104389 1
- 223 GENHOP: An Image Generation Method Based on Successive Subspace Learning. **2022**, o
- 222 Deep manifold regularized semi-nonnegative matrix factorization for Multi-view Clustering. **2022**, 109806 o
- 221 Multiple Band Prioritization Criteria-Based Band Selection for Hyperspectral Imagery. **2022**, 14, 5679 o
- 220 Sparse Representation-Based Hyperspectral Image Classification. **2022**, 483-505 o
- 219 Reweighted Manifold Learning of Collective Variables from Enhanced Sampling Simulations. 1
- 218 Patient Clustering and Classification for Vital Organ Failure Using ICD Code with Graph Attention. o
- 217 Comparing different nonlinear dimensionality reduction techniques for data-driven unsteady fluid flow modeling. **2022**, 34, 117119 1
- 216 MSF-UBRW: An Improved Unbalanced Bi-Random Walk Method to Infer Human lncRNA-Disease Associations. **2022**, 13, 2032 o
- 215 Shape-aware stochastic neighbor embedding for robust data visualisations. **2022**, 23, o
- 214 Improved Evaluation and Generation Of Grid Layouts Using Distance Preservation Quality and Linear Assignment Sorting. o
- 213 Optimal Design of Experiments on Riemannian Manifolds. 1-22 o

212	BMPMDA: Prediction of MiRNA-Disease Associations Using a Space Projection Model Based on Block Matrix.	0
211	Systematic investigation of keywords selection and processing strategy on search engine forecasting: a case of tourist volume in Beijing.	0
210	Deep data representation with feature propagation for semi-supervised learning.	0
209	Bipartite Graph based Spectral Clustering with Comprehensive Structure Information Learning. <b>2022</b> ,	0
208	Multi-Patches Cooperative Point Cloud Denoising Algorithm Based on Locally Linear Embedding. <b>2022</b> ,	0
207	Challenges and opportunities of deep learning-based process fault detection and diagnosis: a review.	0
206	A Novel Label Enhancement Algorithm Based on Manifold Learning. <b>2023</b> , 135, 109189	0
205	Neighbor Graph Based Tensor Recovery for Accurate Internet Anomaly Detection. <b>2022</b> , 1-18	0
204	Detection of maize seed germination rate based on improved locally linear embedding. <b>2023</b> , 204, 107514	0
203	CMOS-GAN: Semi-Supervised Generative Adversarial Model for Cross-Modality Face Image Synthesis. <b>2023</b> , 32, 144-158	0
202	An efficient facial expression recognition system with appearance-based fused descriptors. <b>2023</b> , 17, 200166	0
201	Unsupervised Feature Selection via Neural Networks and Self-Expression with Adaptive Graph Constraint. <b>2023</b> , 135, 109173	0
200	Unsupervised feature selection through combining graph learning and $\ell_{2,0}$ -norm constraint. <b>2023</b> , 622, 68-82	0
199	An Efficient Transformer Based on Global and Local Self-attention for Face Photo-Sketch Synthesis. <b>2022</b> , 1-1	0
198	Hyperspectral Image Denoising Based on Dual Low-Rank Structure Preservation. <b>2022</b> , 430-441	0
197	Optimization of Polynomials with Sparsity Encoded in a Few Linear Forms. <b>2022</b> , 55, 383-387	0
196	Intrinsic Image Transfer for Illumination Manipulation. <b>2022</b> , 1-12	1
195	Loop Closure Detection With Bidirectional Manifold Representation Consensus. <b>2022</b> , 1-14	0

- 194 Jointly Linear Embedding via L2,1-Norm for Dimensionality Reduction. **2021**, 8, 151-164 o
- 193 Task-adaptive Few-shot Learning on Sphere Manifold. **2022**, o
- 192 NLED: Neighbor Linear-Embedding Denoising for Fluorescence Microscopy Images. **2022**, o
- 191 Parametric Dimension Reduction by Preserving Local Structure. **2022**, o
- 190 Improved Dynamic Kernel PCA Based on Local Preserving Projections and Its Application for Electric Submersible Pump Fault Diagnosis. o
- 189 The generalized ratios intrinsic dimension estimator. **2022**, 12, o
- 188 Multi-view spectral clustering with latent representation learning for applications on multi-omics cancer subtyping. 1
- 187 DNETC: dynamic network embedding preserving both triadic closure evolution and community structures. o
- 186 A survey of graph neural networks in various learning paradigms: methods, applications, and challenges. 1
- 185 A novel conformal deformation based sparse subspace clustering. o
- 184 Selective Search Collaborative Representation for Hyperspectral Anomaly Detection. **2022**, 12, 12015 o
- 183 Low-Complexity Hyperbolic Embedding Schemes for Temporal Complex Networks. **2022**, 22, 9306 o
- 182 Profile evaluation of rail joint in a 3 - m wavelength based on unsupervised learning. o
- 181 Dual-weight local linear embedding algorithm based on adaptive neighborhood. 014233122211318 o
- 180 Improving performance of robots using human-inspired approaches: a survey. **2022**, 65, 4
- 179 SLISEMAP: supervised dimensionality reduction through local explanations. 1
- 178 Tracking Evolving Geometric Data by Local Graph Laplacian Operators. **2022**, o
- 177 Multi-temporal PolSAR Image Classification Using F-SAE-CNN. **2022**, o

- 176 An unsupervised machine learning based ground motion selection method for computationally efficient estimation of seismic fragility. o
- 175 Spatial and Temporal Pattern of Rainstorms Based on Manifold Learning Algorithm. **2023**, 15, 37 1
- 174 Data-driven discovery of intrinsic dynamics. **2022**, 4, 1113-1120 o
- 173 Knowledge Graph Double Interaction Graph Neural Network for Recommendation Algorithm. **2022**, 12, 12701 o
- 172 Manifold Regularized Principal Component Analysis Method Using L2,p-Norm. **2022**, 10, 4603 o
- 171 Contrastive learningBased structure preserving projection for hyperspectral images. **2022**, 43, 7002-7023 o
- 170 Neural manifold analysis of brain circuit dynamics in health and disease. o
- 169 Algorithm for orthogonal matrix nearness and its application to feature representation. **2022**, o
- 168 Hypergraph regularized low-rank tensor multi-view subspace clustering via L1 norm constraint. o
- 167 Robust and accurate prediction of self-interacting proteins from protein sequence information by exploiting weighted sparse representation based classifier. **2022**, 23, o
- 166 A pseudo principal component analysis method for multi-dimensional open-high-low-close data in candlestick chart. 1-27 o
- 165 Application of novel hybrid machine learning systems and radiomics features for non-motor outcome prediction in Parkinson's disease. o
- 164 Spectral Reflectance Reconstruction of Organ Tissue Based on Metameric Black and Lattice Regression. **2022**, 22, 9405 o
- 163 Enhanced metagenomic deep learning for disease prediction and consistent signature recognition by restructured microbiome 2D representations. **2022**, 100658 o
- 162 Staying the course: iteratively locating equilibria of dynamical systems on Riemannian manifolds defined by point-clouds. o
- 161 Dimensionality reduction using local-global standard hypergraph embedding for rotor fault diagnosis. **2023**, 34, 034006 o
- 160 EEG signals classification using a new radial basis function neural network and jellyfish meta-heuristic algorithm. o
- 159 Low-rank tensor multi-view subspace clustering via cooperative regularization. o

- 158 Holistic Utility Satisfaction in Cloud Data Centre Network Using Reinforcement Learning. **2022**, 14, 368 o
- 157 Heterogeneous graph neural networks analysis: a survey of techniques, evaluations and applications. o
- 156 Robust semi-supervised discriminant embedding method with soft label in kernel space. o
- 155 Some recent trends in embeddings of time series and dynamic networks. 1
- 154 Toward the Non-Targeted Detection of Adulterated Virgin Olive Oil with Edible Oils via FTIR Spectroscopy & Chemometrics: Research Methodology Trends, Gaps and Future Perspectives. **2023**, 28, 337 o
- 153 User structural information in priority-based ranking for top-N recommendation. **2023**, 3, o
- 152 Intelligent electronic tongue system for the classification of genuine and false honeys. **2023**, 26, 327-343 1
- 151 Linear and Nonlinear Dimensionality Reduction from Fluid Mechanics to Machine Learning. o
- 150 Detection of Sparsity in Multidimensional Data Using Network Degree Distribution and Improved Supervised Learning with Correction of Data Weighting. **2023**, 390-401 o
- 149 A Super-resolution-based Approach for the Detection of Covid-19 Infection From Chest X-ray Images. **2023**, 28, 127-148 o
- 148 Texture feature dimensionality reduction-based mammography classification using Random Forest. **2023**, 1-9 o
- 147 Towards an ML-Based Semantic IoT for Pandemic Management: A Survey of Enabling Technologies for COVID-19. **2023**, 1
- 146 Fault Monitoring Based on the VLSW-MADF Test and DLPPCA for Multimodal Processes. **2023**, 23, 987 1
- 145 Data Preprocessing Technology in Pipeline Health Monitoring. **2023**, 213-255 o
- 144 Exploiting Human Pose and Scene Information for Interaction Detection. **2023**, 74, 5853-5870 o
- 143 SVMWPE-HLLE Based Fault Diagnosis Approach for Rolling Bearing. **2023**, 11, 4645-4659 o
- 142 Investigating Tropical Cyclone Rapid Intensification with an Advanced Artificial Intelligence System and Gridded Reanalysis Data. **2023**, 14, 195 o
- 141 Robust non-negative supervised low-rank discriminant embedding (NSLRDE) for feature extraction. o



- 140 Network representation learning via improved random walk with restart. **2023**, 110255 ○
- 139 Manifold learning for coherent design interpolation based on geometrical and topological descriptors. **2023**, 405, 115859 ○
- 138 Sex classification of silkworm pupae from different varieties by near infrared spectroscopy combined with chemometrics. **2023**, 129, 104553 ○
- 137 Automatic feature learning model combining functional connectivity network and graph regularization for depression detection. **2023**, 82, 104520 ○
- 136 SemanticGraph2Vec: Semantic graph embedding for text representation. **2023**, 17, 100276 ○
- 135 Geometric consistent fuzzy cluster ensemble with membership reconstruction for image segmentation. **2023**, 134, 103901 ○
- 134 Computing committors in collective variables via Mahalanobis diffusion maps. **2023**, 64, 62-101 ○
- 133 Hypergraph based semi-supervised symmetric nonnegative matrix factorization for image clustering. **2023**, 137, 109274 ○
- 132 Poincaré-Fr chet mean. **2023**, 137, 109302 ○
- 131 Linear dimensionality reduction method based on topological properties. **2023**, 624, 493-511 ○
- 130 Graph Neural Networks with Multi-granularity Pooling. **2022**, ○
- 129 Fitting an immersed submanifold to data via Sussmann's orbit theorem. **2022**, ○
- 128 Tuning OER Electrocatalysts toward LOM Pathway through the Lens of Multi-Descriptor Feature Selection by Artificial Intelligence-Based Approach. 299-320 ○
- 127 Model-free data-driven identification algorithm enhanced by local manifold learning. ○
- 126 Modified t-Distribution Stochastic Neighbor Embedding Using Augmented Kernel Mahalanobis-Distance for Dynamic Multimode Chemical Process Monitoring. **2022**, 2022, 1-19 ○
- 125 Learning Emotion Representations on a Manifold. **2022**, ○
- 124 A Universal Law of Robustness via Isoperimetry. 2
- 123 SAR Target Orientation Estimation Based on Manifold Learning. **2022**, ○

- 122 MHILDA: identifying disease-associated lncRNAs by extracting key features from integrated heterogeneous networks. **2022**, ○
- 121 A novel framework based on network embedding for the simulation and analysis of disease progression.. **2022**, ○
- 120 Laplacian-Based Dimensionality Reduction. **2023**, 249-284 ○
- 119 Locally Linear Embedding. **2023**, 207-247 ○
- 118 Hybrid N-way Partial Least Squares and Random Forest Model for Brick Tea Identification Based on Excitation-Emission Matrix Fluorescence Spectroscopy. ○
- 117 PGAGP: Predicting pathogenic genes based on adaptive network embedding algorithm. 13, ○
- 116 Applicability Domain Characterization for Machine Learning QSAR Models. **2023**, 323-353 ○
- 115 Generalized unsupervised functional map learning for dense correspondence. ○
- 114 Community Detection Supported by Node Embeddings (Searching for a Suitable Method). **2023**, 221-232 ○
- 113 Coarse geometric kernels for networks embedding. ○
- 112 Automatic Extraction of the Sparse Prior Correspondences for Non-Rigid Point Cloud Registration. **2023**, 136, 1835-1856 ○
- 111 From snapshots to manifolds: A tale of shear flows. **2023**, 955, ○
- 110 Principal Component Analysis. **2023**, 123-154 ○
- 109 Unified Spectral Framework and Maximum Variance Unfolding. **2023**, 285-312 ○
- 108 PKNNNet: a novel feature learning architecture for vegetation mapping using remote sensing hyperspectral image classification. ○
- 107 Novel Bootstrap-Based Discriminant NPE Integrated With Orthogonal LPP for Fault Diagnosis. **2023**, 72, 1-9 ○
- 106 iMGC: Interactive Multiple Graph Clustering With Constrained Laplacian Rank. **2023**, 53, 427-437 1
- 105 EnD: Enhanced Dedensification for Graph Compressing and Embedding. **2022**, ○

104	Exploring Latent Sparse Graph for Large-Scale Semi-supervised Learning. <b>2023</b> , 367-383	o
103	Colorization. <b>2023</b> , 31-41	o
102	SpectralMAP: Approximating Data Manifold With Spectral Decomposition. <b>2023</b> , 11, 31530-31540	o
101	Towards a dynamical understanding of microstate analysis of M/EEG data.	o
100	Data-driven control of agent-based models: An Equation/Variable-free machine learning approach. <b>2023</b> , 478, 111953	o
99	Incremental label propagation for data sets with imbalanced labels. <b>2023</b> , 535, 144-155	o
98	FV-MgNet: Fully connected V-cycle MgNet for interpretable time series forecasting. <b>2023</b> , 69, 102005	o
97	Semi-supervised non-negative matrix tri-factorization with adaptive neighbors and block-diagonal learning. <b>2023</b> , 121, 106043	o
96	Random Manifold Sampling and Joint Sparse Regularization for Multi-Label Feature Selection. <b>2023</b> , 32, 100383	o
95	Learning asymmetric embedding for attributed networks via convolutional neural network. <b>2023</b> , 219, 119659	o
94	Underestimation modification for intrinsic dimension estimation. <b>2023</b> , 140, 109580	o
93	A time sequence coding based node-structure feature model oriented to node classification. <b>2023</b> , 223, 119872	o
92	Dual-graph regularized concept factorization for multi-view clustering. <b>2023</b> , 223, 119949	o
91	Discriminative subspace learning via optimization on Riemannian manifold. <b>2023</b> , 139, 109450	o
90	MEQA: Manifold embedding quality assessment via anisotropic scaling and Kolmogorov-Smirnov test. <b>2023</b> , 139, 109447	o
89	Dimensionality reduction method based on multiple feature-space collaborative discriminative projection for rotor fault diagnosis. <b>2023</b> , 34, 055007	o
88	Gaussian Processes for High-Dimensional, Large Data Sets: A Review. <b>2022</b> ,	o
87	Structural similarity-based Bi-representation through true noise level for noise-robust face super-resolution.	o

- 86 FVec2vec: A Fast Nonlinear Dimensionality Reduction Approach for General Data. **2022**, ○
- 85 Evaluating COVID-19 Sequence Data Using Nearest-Neighbors Based Network Model. **2022**, ○
- 84 Manifold clustering-based prediction for dynamic multiobjective optimization. **2023**, 77, 101254 ○
- 83 Automated design of feature extraction for unsupervised image clustering using grammatical evolution. **2022**, ○
- 82 Robust feature matching via progressive smoothness consensus. **2023**, 196, 502-513 1
- 81 Improving Self-supervised Dimensionality Reduction: Exploring Hyperparameters and Pseudo-Labeling Strategies. **2023**, 135-161 ○
- 80 Introduction. **2023**, 1-14 ○
- 79 Robust Dimensionality Reduction via Low-rank Laplacian Graph Learning. **2023**, 14, 1-24 ○
- 78 Image perceptual hashing for content authentication based on Watson's visual model and LLE. **2023**, 20, ○
- 77 Spectral Metric Learning. **2023**, 313-351 ○
- 76 Joint graph and reduced flexible manifold embedding for scalable semi-supervised learning. ○
- 75 Semi-Supervised Multi-Label Dimensionality Reduction Learning by Instance and Label Correlations. **2023**, 11, 782 ○
- 74 IAN: Iterated Adaptive Neighborhoods for Manifold Learning and Dimensionality Estimation. **2023**, 35, 453-524 ○
- 73 Multi-instance Multi-label Learning Based on Parallel Attention and Local Label Manifold Correlation. **2022**, ○
- 72 Dimensionality reduction by regularized least squares weighted discriminant projection. **2021**, ○
- 71 Frequency Domain Feature Extraction and Long Short-Term Memory for Rolling Bearing Fault Diagnosis. **2022**, ○
- 70 Thermodynamics-informed neural networks for physically realistic mixed reality. **2023**, 407, 115912 ○
- 69 Simultaneous Monitoring of Different Drought Types Using Linear and Nonlinear Combination Approaches. **2023**, 37, 1125-1151 ○

- 68 A spectral method for assessing and combining multiple data visualizations. **2023**, 14, ☐
- 67 Digitale Transformation im Bauwesen [Grundlagen zur künstlichen Intelligenz und deren Anwendung im Wohnungsbau. **2023**, 275-308 ☐
- 66 Multi-sample dual-decoder graph autoencoder. **2023**, 211, 31-41 ☐
- 65 MI Classification based on Locally Linear Embedding and One-dimensional Simplified Convolutional Neural Network. **2022**, ☐
- 64 Unsupervised Diffusion and Volume Maximization-Based Clustering of Hyperspectral Images. **2023**, 15, 1053 ☐
- 63 UDRN: Unified Dimensional Reduction Neural Network for feature selection and feature projection. **2023**, 161, 626-637 ☐
- 62 Fast orthogonal locality-preserving projections for unsupervised feature selection. **2023**, 531, 100-113 ☐
- 61 Comprehensive survey of face super-resolution techniques. **2023**, 213-233 ☐
- 60 An NPE-PCA-based Detection Method of Distribution Transformer Closing Surge Waveform. **2023**, 2427, 012019 ☐
- 59 Conformational analysis of chromosome structures reveals vital role of chromosome morphology in gene function. ☐
- 58 Stability Analysis of Supervised Decision Boundary Maps. **2023**, 4, ☐
- 57 Network-Based Dimensionality Reduction for Textual Datasets. **2023**, 175-190 ☐
- 56 Side effects of learning from low-dimensional data embedded in a Euclidean space. **2023**, 10, ☐
- 55 Visualizing High-Dimensional Functions with Dense Maps. **2023**, 4, ☐
- 54 Learning Sparse Kernel CCA With Graph Priors for Nonlinear Process Monitoring. **2023**, 23, 7381-7389 ☐
- 53 Statistical Embedding: Beyond Principal Components. **2023**, -1, ☐
- 52 Current developments in artificial intelligence from obstetrics and gynecology to urogynecology. 10, ☐
- 51 Adaptive Reference-Related Graph Embedding for Hyperspectral Anomaly Detection. **2023**, 61, 1-14 ☐

- 50 Non-negative low-rank adaptive preserving sparse matrix regression model for supervised image feature selection and classification. ○
- 49 Graph representation learning via redundancy reduction. **2023**, 533, 161-177 ○
- 48 Social determinants of health derived from people with opioid use disorder: Improving data collection, integration and use with cross-domain collaboration and reproducible, data-centric, notebook-style workflows. 10, ○
- 47 Prediction of drug amount in Parkinson's disease using hybrid machine learning systems and radiomics features. ○
- 46 Stabilizing and Simplifying Sharpened Dimensionality Reduction Using Deep Learning. **2023**, 4, ○
- 45 Effective Dimensionality Reduction Using Kernel Locality Preserving Partial Least Squares Discriminant Analysis. **2023**, 46, ○
- 44 Regression Prediction of Effective Temperature of Stellar Spectrum Based on Kernel Method. **2023**, 5, 91-94 ○
- 43 MATNet: A Combining Multi-Attention and Transformer Network for Hyperspectral Image Classification. **2023**, 61, 1-15 ○
- 42 Data Analysis for Information Discovery. **2023**, 13, 3481 ○
- 41 Design and Implementation of a Synergy-Based Cable-Driven Humanoid Arm With Variable Stiffness. **2024**, 16, ○
- 40 Focused Stochastic Neighbor Embedding for Better Preserving Points of Interest. **2022**, ○
- 39 Deep Federated Anomaly Detection for Multivariate Time Series Data. **2022**, ○
- 38 Joint L2,p-norm and random walk graph constrained PCA for single-cell RNA-seq data. 1-14 ○
- 37 Face recognition using feature dimension decrease arithmetic\*. **2022**, ○
- 36 A Novel Method of Efficient Max-min Metric for Classification. **2023**, 2449, 012014 ○
- 35 Heterogeneous Graph Purification Network: Purifying Noisy Heterogeneity without Metapaths. **2023**, 13, 3989 ○
- 34 Principal component analysis and manifold learning techniques for the design of brain-computer interfaces based on steady-state visually evoked potentials. **2023**, 68, 102000 ○
- 33 Quantum average neighborhood margin maximization for feature extraction. **2023**, 22, ○

- 32 Electroencephalography-Based BrainMachine Interfaces in Older Adults: A Literature Review. **2023**, 10, 395 ○
- 31 AVIDA: An alternating method for visualizing and integrating data. **2023**, 68, 101998 ○
- 30 Reduced-order modeling and analysis of dynamic cerebral autoregulation via diffusion maps. **2023**, 44, 044001 ○
- 29 Reducing the Dimensionality of SPD Matrices with Neural Networks in BCI. **2023**, 11, 1570 ○
- 28 Unsupervised Ensemble Learning Improves Discriminability of Stochastic Neighbor Embedding. **2023**, 16, ○
- 27 Geometrically Preserved Dual Projections Learning for Multi-label Classification. ○
- 26 Local Tetra Pattern-based Bilateral LPP in Robot Navigation Guidance Systems: A Robust Approach against Vision Sensor Noises. **2022**, ○
- 25 Channel Estimation of mmWave Massive MIMO System Based on Manifold Learning. **2022**, ○
- 24 Summarizing Data Structures with Gaussian Process and Robust Neighborhood Preservation. **2023**, 157-173 ○
- 23 Multi-view manifold learning of human brain-state trajectories. **2023**, 3, 240-253 ○
- 22 An improved nonlinear correlation method for feature selection of complex data. ○
- 21 A Novel Link Prediction Method for Social Multiplex Networks Based on Deep Learning. **2023**, 11, 1705 ○
- 20 METHODOLOGY FOR ASSESSING DIGITAL MATURITY OF INDUSTRIAL ECOSYSTEMS. **2023**, 85-101 ○
- 19 TRTCD: trust route prediction based on trusted community detection. ○
- 18 Structure-preserving visualization for single-cell RNA-Seq profiles using deep manifold transformation with batch-correction. **2023**, 6, ○
- 17 Robust Exponential Graph Regularization Non-Negative Matrix Factorization Technology for Feature Extraction. **2023**, 11, 1716 ○
- 16 Intensifying graph diffusion-based salient object detection with sparse graph weighting. ○
- 15 clusterMaker2: a major update to clusterMaker, a multi-algorithm clustering app for Cytoscape. **2023**, 24, ○

- 14 Learning effective SDEs from Brownian dynamic simulations of colloidal particles. ○
- 13 Stack-VTP: prediction of vesicle transport proteins based on stacked ensemble classifier and evolutionary information. **2023**, 24, ○
- 12 Graph-based machine learning improves just-in-time defect prediction. **2023**, 18, e0284077 ○
- 11 Artificial intelligence-navigated development of high-performance electrochemical energy storage systems through feature engineering of multiple descriptor families of materials. ○
- 10 Attributed Graph Embedding with Random Walk Regularization and Centrality-Based Attention. **2023**, 11, 1830 ○
- 9 Intelligent Urban Sensing for Gas Leakage Risk Assessment. **2023**, 11, 37900-37910 ○
- 8 A geometric framework for outlier detection in high-dimensional data. ○
- 7 Discriminative feature encoding for intrinsic image decomposition. ○
- 6 An Efficient Framework for classifying Cancer diseases using Ensemble machine learning over Cancer Gene Expression and Sequence Based Protein Interactions.. **2023**, ○
- 5 A review on the t-distributed stochastic neighbors embedding. **2023**, 36, 167-173 ○
- 4 Consensus cluster structure guided multi-view unsupervised feature selection. **2023**, 110578 ○
- 3 Multimodal medical tensor fusion network-based DL framework for abnormality prediction from the radiology CXRs and clinical text reports. ○
- 2 An asymmetric topology-preserving Neighborhood Retrieval Visualizer. **2023**, 120175 ○
- 1 Rates of the Strong Uniform Consistency for the Kernel-Type Regression Function Estimators with General Kernels on Manifolds. **2023**, 32, 27-80 ○