

Kup-Sze Choi

List of Publications by Year in descending order

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140
papers

3,564
citations

172386

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145
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145
docs citations

145
times ranked

3237
citing authors

#	ARTICLE	IF	CITATIONS
1	Correntropy-Based Low-Rank Matrix Factorization With Constraint Graph Learning for Image Clustering. IEEE Transactions on Neural Networks and Learning Systems, 2023, 34, 10433-10446.	7.2	0
2	Deep Cross-Output Knowledge Transfer Using Stacked-Structure Least-Squares Support Vector Machines. IEEE Transactions on Cybernetics, 2022, 52, 3207-3220.	6.2	6
3	A Deep-Ensemble-Level-Based Interpretable Takagi-Sugeno-Kang Fuzzy Classifier for Imbalanced Data. IEEE Transactions on Cybernetics, 2022, 52, 3805-3818.	6.2	22
4	Multi-View Clustering With the Cooperation of Visible and Hidden Views. IEEE Transactions on Knowledge and Data Engineering, 2022, 34, 803-815.	4.0	15
5	Robust Multi-Label Relief Feature Selection Based on Fuzzy Margin Co-Optimization. IEEE Transactions on Emerging Topics in Computational Intelligence, 2022, 6, 387-398.	3.4	9
6	Transductive Multiview Modeling With Interpretable Rules, Matrix Factorization, and Cooperative Learning. IEEE Transactions on Cybernetics, 2022, 52, 11226-11239.	6.2	2
7	Enhancement of prostate cancer diagnosis by machine learning techniques: an algorithm development and validation study. Prostate Cancer and Prostatic Diseases, 2022, 25, 672-676.	2.0	17
8	Monotonic relation-constrained Takagi-Sugeno-Kang fuzzy system. Information Sciences, 2022, 582, 243-257.	4.0	11
9	Manifold-Regularized Multitask Fuzzy System Modeling With Low-Rank and Sparse Structures in Consequent Parameters. IEEE Transactions on Fuzzy Systems, 2022, 30, 1486-1500.	6.5	4
10	Incomplete Multiple View Fuzzy Inference System With Missing View Imputation and Cooperative Learning. IEEE Transactions on Fuzzy Systems, 2022, 30, 3038-3051.	6.5	8
11	Multilabel Takagi-Sugeno-Kang Fuzzy System. IEEE Transactions on Fuzzy Systems, 2022, 30, 3410-3425.	6.5	6
12	Reduced-Order Extended Kalman Filter for Deformable Tissue Simulation. Journal of the Mechanics and Physics of Solids, 2022, 158, 104696.	2.3	12
13	Deep EEG feature learning via stacking common spatial pattern and support matrix machine. Biomedical Signal Processing and Control, 2022, 74, 103531.	3.5	5
14	Enhanced Multiview Fuzzy Clustering Using Double Visible-Hidden View Cooperation and Network LASSO Constraint. IEEE Transactions on Fuzzy Systems, 2022, 30, 4965-4979.	6.5	3
15	Constrained finite element method for runtime modeling of soft tissue deformation. Applied Mathematical Modelling, 2022, 109, 599-612.	2.2	7
16	EEG-based vibrotactile evoked brain-computer interfaces system: A systematic review. PLoS ONE, 2022, 17, e0269001.	1.1	3
17	Virtual reality simulation for learning wound dressing: Acceptance and usability. Clinical Simulation in Nursing, 2022, 68, 49-57.	1.5	4
18	Development of a Healthcare Information System for Community Care of Older Adults and Evaluation of Its Acceptance and Usability. Digital Health, 2022, 8, 205520762211090.	0.9	1

#	ARTICLE	IF	CITATIONS
19	Transfer Representation Learning With TSK Fuzzy System. IEEE Transactions on Fuzzy Systems, 2021, 29, 649-663.	6.5	25
20	Network Together: Node Classification via Cross-Network Deep Network Embedding. IEEE Transactions on Neural Networks and Learning Systems, 2021, 32, 1935-1948.	7.2	42
21	Selective Transfer Classification Learning With Classification-Error-Based Consensus Regularization. IEEE Transactions on Emerging Topics in Computational Intelligence, 2021, 5, 178-190.	3.4	3
22	Extended Kalman Filter Nonlinear Finite Element Method for Nonlinear Soft Tissue Deformation. Computer Methods and Programs in Biomedicine, 2021, 200, 105828.	2.6	17
23	Selective Learning from External Data for CT Image Segmentation. Lecture Notes in Computer Science, 2021, , 420-430.	1.0	2
24	Maximum likelihood-based extended Kalman filter for COVID-19 prediction. Chaos, Solitons and Fractals, 2021, 146, 110922.	2.5	29
25	Finite-element kalman filter with state constraint for dynamic soft tissue modelling. Computers in Biology and Medicine, 2021, 135, 104594.	3.9	6
26	Extended Kalman filter based on stochastic epidemiological model for COVID-19 modelling. Computers in Biology and Medicine, 2021, 137, 104810.	3.9	24
27	Extended Kalman filter for online soft tissue characterization based on Hunt-Crossley contact model. Journal of the Mechanical Behavior of Biomedical Materials, 2021, 123, 104667.	1.5	16
28	A Transfer-Based Additive LS-SVM Classifier for Handling Missing Data. IEEE Transactions on Cybernetics, 2020, 50, 739-752.	6.2	38
29	A Novel Transfer Support Matrix Machine for Motor Imagery-Based Brain Computer Interface. Frontiers in Neuroscience, 2020, 14, 606949.	1.4	6
30	Usability evaluation of 3D user interface for virtual planning of bone fixation plate placement. Informatics in Medicine Unlocked, 2020, 19, 100348.	1.9	3
31	CNN in CT Image Segmentation: Beyond Loss Function for Exploiting Ground Truth Images. , 2020, , .		15
32	Least squares support vector machines with fast leave-one-out AUC optimization on imbalanced prostate cancer data. International Journal of Machine Learning and Cybernetics, 2020, 11, 1909-1922.	2.3	9
33	Output based transfer learning with least squares support vector machine and its application in bladder cancer prognosis. Neurocomputing, 2020, 387, 279-292.	3.5	19
34	Deep stacked support matrix machine based representation learning for motor imagery EEG classification. Computer Methods and Programs in Biomedicine, 2020, 193, 105466.	2.6	19
35	Local and Global Structure-Aware Entropy Regularized Mean Teacher Model for 3D Left Atrium Segmentation. Lecture Notes in Computer Science, 2020, , 562-571.	1.0	48
36	Adversarial Deep Network Embedding for Cross-Network Node Classification. Proceedings of the AAAI Conference on Artificial Intelligence, 2020, 34, 2991-2999.	3.6	38

#	ARTICLE	IF	CITATIONS
37	Effects of an mHealth Brisk Walking Intervention on Increasing Physical Activity in Older People With Cognitive Frailty: Pilot Randomized Controlled Trial. JMIR MHealth and UHealth, 2020, 8, e16596.	1.8	52
38	Using Dual Neural Network Architecture to Detect the Risk of Dementia With Community Health Data: Algorithm Development and Validation Study. JMIR Medical Informatics, 2020, 8, e19870.	1.3	6
39	Shape Mask Generator: Learning to Refine Shape Priors for Segmenting Overlapping Cervical Cytoplasm. Lecture Notes in Computer Science, 2020, , 639-649.	1.0	1
40	Generalized Hidden-Mapping Transductive Transfer Learning for Recognition of Epileptic Electroencephalogram Signals. IEEE Transactions on Cybernetics, 2019, 49, 2200-2214.	6.2	49
41	Segmentation of Overlapping Cytoplasm in Cervical Smear Images via Adaptive Shape Priors Extracted From Contour Fragments. IEEE Transactions on Medical Imaging, 2019, 38, 2849-2862.	5.4	17
42	JOint Shape Matching for Overlapping Cytoplasm Segmentation in Cervical Smear Images. , 2019, , .		2
43	Virtual Reality Wound Care Training for Clinical Nursing Education: An Initial User Study. , 2019, , .		13
44	Deep Multi-View Feature Learning for EEG-Based Epileptic Seizure Detection. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2019, 27, 1962-1972.	2.7	109
45	Walking Imagery Evaluation in Brain Computer Interfaces via a Multi-View Multi-Level Deep Polynomial Network. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2019, 27, 497-506.	2.7	27
46	Concise Fuzzy System Modeling Integrating Soft Subspace Clustering and Sparse Learning. IEEE Transactions on Fuzzy Systems, 2019, 27, 2176-2189.	6.5	29
47	Reliability Learning for Interval Type-2 TSK Fuzzy Logic System with its Application to Medical Diagnosis. , 2019, , .		0
48	Deep Additive Least Squares Support Vector Machines for Classification With Model Transfer. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2019, 49, 1527-1540.	5.9	41
49	Feature-preserving ultrasound speckle reduction via L ₀ minimization. Neurocomputing, 2018, 294, 48-60.	3.5	7
50	Tackling Missing Data in Community Health Studies Using Additive LS-SVM Classifier. IEEE Journal of Biomedical and Health Informatics, 2018, 22, 579-587.	3.9	26
51	Data-Driven Elastic Fuzzy Logic System Modeling: Constructing a Concise System With Human-Like Inference Mechanism. IEEE Transactions on Fuzzy Systems, 2018, 26, 2160-2173.	6.5	25
52	Diagnosis of prostate cancer in a Chinese population by using machine learning methods. , 2018, 2018, 1-4.		15
53	Transductive Joint-Knowledge-Transfer TSK FS for Recognition of Epileptic EEG Signals. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2018, 26, 1481-1494.	2.7	67
54	Computer aided diagnostic tool for prostate cancer with rule extraction from Support Vector Machines. , 2018, , .		1

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55	Enhanced Knowledge-Leverage-Based TSK Fuzzy System Modeling for Inductive Transfer Learning. ACM Transactions on Intelligent Systems and Technology, 2017, 8, 1-21.	2.9	24
56	Fast feature-preserving speckle reduction for ultrasound images via phase congruency. Signal Processing, 2017, 134, 275-284.	2.1	21
57	Recognition of Epileptic EEG Signals Using a Novel Multiview TSK Fuzzy System. IEEE Transactions on Fuzzy Systems, 2017, 25, 3-20.	6.5	157
58	Synchronization clustering based on central force optimization and its extension for large-scale datasets. Knowledge-Based Systems, 2017, 118, 31-44.	4.0	14
59	Semi-supervised learning using hidden feature augmentation. Applied Soft Computing Journal, 2017, 59, 448-461.	4.1	9
60	Evaluation of Motor Training Performance in 3D Virtual Environment via Combining Brain-computer Interface and Haptic Feedback. Procedia Computer Science, 2017, 107, 256-261.	1.2	9
61	Seizure Classification From EEG Signals Using Transfer Learning, Semi-Supervised Learning and TSK Fuzzy System. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2017, 25, 2270-2284.	2.7	179
62	Virtual haptic system for intuitive planning of bone fixation plate placement. Informatics in Medicine Unlocked, 2017, 9, 145-153.	1.9	2
63	An output-based knowledge transfer approach and its application in bladder cancer prediction. , 2017, , .		5
64	Rehabilitation of activities of daily living in virtual environments with intuitive user interface and force feedback. Disability and Rehabilitation: Assistive Technology, 2017, 12, 672-680.	1.3	12
65	Detection of epilepsy with Electroencephalogram using rule-based classifiers. Neurocomputing, 2017, 228, 283-290.	3.5	43
66	Performance Evaluation of Walking Imagery Training Based on Virtual Environment in Brain-Computer Interfaces. , 2017, , .		3
67	Enhancing the Performance of Brain-Computer Interface with Haptics. , 2017, , .		0
68	Towards Interactive and Realistic Rendering of 3D Fetal Ultrasound via Photon Mapping. , 2017, , .		0
69	Robust extreme learning fuzzy systems using ridge regression for small and noisy datasets. , 2017, , .		7
70	Using Machine Learning to Diagnose Bacterial Sepsis in the Critically Ill Patients. Lecture Notes in Computer Science, 2017, , 223-233.	1.0	6
71	Intelligent Diagnostic Methods for Thyroid Nodules. Journal of Medical Imaging and Health Informatics, 2017, 7, 1772-1779.	0.2	2
72	Locality Preserving Projections with Adaptive Neighborhood Size. Lecture Notes in Computer Science, 2017, , 223-234.	1.0	1

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73	Virtual Reality in Nursing: Nasogastric Tube Placement Training Simulator. <i>Studies in Health Technology and Informatics</i> , 2017, 245, 1298.	0.2	5
74	Fast Gabor texture feature extraction with separable filters using GPU. <i>Journal of Real-Time Image Processing</i> , 2016, 12, 5-13.	2.2	14
75	A Heuristic Force Model for Haptic Simulation of Nasogastric Tube Insertion Using Fuzzy Logic. <i>IEEE Transactions on Haptics</i> , 2016, 9, 295-310.	1.8	2
76	Discrimination of motor imagery tasks via information flow pattern of brain connectivity. <i>Technology and Health Care</i> , 2016, 24, S795-S801.	0.5	19
77	Stereoscopic Three-Dimensional Visualization for Immersive and Intuitive Anatomy Learning. , 2016, , .		4
78	Improving the discrimination of hand motor imagery via virtual reality based visual guidance. <i>Computer Methods and Programs in Biomedicine</i> , 2016, 132, 63-74.	2.6	54
79	A novel multi-task TSK fuzzy classifier and its enhanced version for labeling-risk-aware multi-task classification. <i>Information Sciences</i> , 2016, 357, 39-60.	4.0	15
80	Towards Using Tiny Multi-sensors Unit for Child Care Reminders. , 2016, , .		2
81	Towards Using Tiny Sensors with Heat Balancing Criteria for Child Care Reminders. <i>International Journal of Semantic Computing</i> , 2016, 10, 365-378.	0.4	1
82	A Computer-Based Method for Teaching Catheter-Access Hemodialysis Management. <i>CIN - Computers Informatics Nursing</i> , 2016, 34, 476-483.	0.3	8
83	Takagi-Sugeno-Kang Transfer Learning Fuzzy Logic System for the Adaptive Recognition of Epileptic Electroencephalogram Signals. <i>IEEE Transactions on Fuzzy Systems</i> , 2016, 24, 1079-1094.	6.5	66
84	Enhancing training performance for brain-computer interface with object-directed 3D visual guidance. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2016, 11, 2129-2137.	1.7	7
85	Distance metric learning for soft subspace clustering in composite kernel space. <i>Pattern Recognition</i> , 2016, 52, 113-134.	5.1	61
86	Transfer Prototype-Based Fuzzy Clustering. <i>IEEE Transactions on Fuzzy Systems</i> , 2016, 24, 1210-1232.	6.5	88
87	A survey on soft subspace clustering. <i>Information Sciences</i> , 2016, 348, 84-106.	4.0	92
88	Safety control for impedance haptic interfaces. <i>Multimedia Tools and Applications</i> , 2016, 75, 15795-15819.	2.6	1
89	Noise-benefit FRSDE for speedup of density estimation on large data. <i>Journal of Intelligent and Fuzzy Systems</i> , 2015, 30, 443-450.	0.8	0
90	A novel privacy-preserving probability transductive classifiers from group probabilities based on regression model. <i>Journal of Intelligent and Fuzzy Systems</i> , 2015, 29, 917-925.	0.8	1

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91	Using Interactive Computer Simulation for Teaching the Proper Use of Personal Protective Equipment. CIN - Computers Informatics Nursing, 2015, 33, 49-57.	0.3	32
92	A virtual reality based simulator for learning nasogastric tube placement. Computers in Biology and Medicine, 2015, 57, 103-115.	3.9	24
93	Prediction of mortality after radical cystectomy for bladder cancer by machine learning techniques. Computers in Biology and Medicine, 2015, 63, 124-132.	3.9	71
94	Facilitating mathematics learning for students with upper extremity disabilities using touch-input system. Disability and Rehabilitation: Assistive Technology, 2015, 10, 170-180.	1.3	3
95	Detection of Epileptic Seizures in EEG Signals with Rule-Based Interpretation by Random Forest Approach. Lecture Notes in Computer Science, 2015, , 738-744.	1.0	8
96	Nonnegative matrix factorization with manifold regularization and maximum discriminant information. International Journal of Machine Learning and Cybernetics, 2015, 6, 837-846.	2.3	0
97	Convex nonnegative matrix factorization with manifold regularization. Neural Networks, 2015, 63, 94-103.	3.3	16
98	Using analytical force model for efficient deformation simulation and haptic rendering of soft objects. Multimedia Tools and Applications, 2015, 74, 1823-1844.	2.6	2
99	Using artificial neural network to predict mortality of radical cystectomy for bladder cancer. , 2014, , .		4
100	Transductive domain adaptive learning for epileptic electroencephalogram recognition. Artificial Intelligence in Medicine, 2014, 62, 165-177.	3.8	39
101	Generalized Hidden-Mapping Ridge Regression, Knowledge-Leveraged Inductive Transfer Learning for Neural Networks, Fuzzy Systems and Kernel Methods. IEEE Transactions on Cybernetics, 2014, 44, 2585-2599.	6.2	179
102	Effective user training for motor imagery based brain computer interface with object-directed 3D visual display. , 2014, , .		4
103	Classification of motor imagery tasks using phase synchronization analysis of EEG based on multivariate empirical mode decomposition. , 2014, , .		1
104	T2FELA: Type-2 Fuzzy Extreme Learning Algorithm for Fast Training of Interval Type-2 TSK Fuzzy Logic System. IEEE Transactions on Neural Networks and Learning Systems, 2014, 25, 664-676.	7.2	62
105	Heartbeat classification using disease-specific feature selection. Computers in Biology and Medicine, 2014, 46, 79-89.	3.9	282
106	A Virtual Reality Training System for Helping Disabled Children to Acquire Skills in Activities of Daily Living. Lecture Notes in Computer Science, 2014, , 244-251.	1.0	1
107	Knowledge-Leverage-Based TSK Fuzzy System Modeling. IEEE Transactions on Neural Networks and Learning Systems, 2013, 24, 1200-1212.	7.2	113
108	Modified sequential floating selection for blood glucose monitoring using near infrared spectral data. Journal of Applied Spectroscopy, 2013, 80, 284-288.	0.3	3

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109	An extension to the discriminant analysis of near-infrared spectra. Medical Engineering and Physics, 2013, 35, 172-177.	0.8	11
110	Alternatives to relational database: Comparison of NoSQL and XML approaches for clinical data storage. Computer Methods and Programs in Biomedicine, 2013, 110, 99-109.	2.6	83
111	Minimumâ€‘maximum local structure information for feature selection. Pattern Recognition Letters, 2013, 34, 527-535.	2.6	18
112	Effect of Packet Loss on Collaborative Haptic Interactions in Networked Virtual Environments: An Experimental Study. Presence: Teleoperators and Virtual Environments, 2013, 22, 36-53.	0.3	6
113	Healthcare Information System: A Facilitator of Primary Care for Underprivileged Elderly via Mobile Clinic. Lecture Notes in Computer Science, 2013, , 107-112.	1.0	3
114	Using computer-assisted method to teach children with intellectual disabilities handwashing skills. Disability and Rehabilitation: Assistive Technology, 2012, 7, 507-516.	1.3	12
115	Packet-loss-resilient perception-based haptic data reduction and transmission using ACK packets. , 2012, , .		2
116	Generalized locality preserving Maxiâ€‘Min Margin Machine. Neural Networks, 2012, 36, 18-24.	3.3	1
117	Fast Rendering of Diffusion Curves with Triangles. IEEE Computer Graphics and Applications, 2012, 32, 68-78.	1.0	18
118	Using sequential floating forward selection algorithm to detect epileptic seizure in EEG signals. , 2012, , .		9
119	Virtual Suturing Simulation Based on Commodity Physics Engine for Medical Learning. Journal of Medical Systems, 2012, 36, 1781-1793.	2.2	22
120	Scalable TSK Fuzzy Modeling for Very Large Datasets Using Minimal-Enclosing-Ball Approximation. IEEE Transactions on Fuzzy Systems, 2011, 19, 210-226.	6.5	112
121	EEW-SC: Enhanced Entropy-Weighting Subspace Clustering for high dimensional gene expression data clustering analysis. Applied Soft Computing Journal, 2011, 11, 4798-4806.	4.1	20
122	A hand rehabilitation system with force feedback for children with cerebral palsy: two case studies. Disability and Rehabilitation, 2011, 33, 1704-1714.	0.9	14
123	Haptic Rendering in Interactive Applications Developed with Commodity Physics Engine. Journal of Multimedia, 2011, 6, .	0.3	4
124	Collaborative Simulation of Soft-Tissue Deformation for Virtual Surgery Applications. Journal of Medical Systems, 2010, 34, 367-378.	2.2	8
125	Learning Blood Management in Orthopedic Surgery through Gameplay. IEEE Computer Graphics and Applications, 2010, 30, 45-57.	1.0	53
126	Enhanced soft subspace clustering integrating within-cluster and between-cluster information. Pattern Recognition, 2010, 43, 767-781.	5.1	178

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127	A Virtual Psychiatric Ward for Orientating Patients Admitted for the First Time. <i>Cyberpsychology, Behavior, and Social Networking</i> , 2010, 13, 637-648.	2.1	1
128	Toward realistic virtual surgical simulation: using heuristically parameterized anisotropic mass-spring model to simulate tissue mechanical responses. , 2010, , .		4
129	A Rehabilitation Method with Visual and Haptic Guidance for Children with Upper Extremity Disability. <i>Lecture Notes in Computer Science</i> , 2010, , 77-84.	1.0	6
130	A Virtual Reality Simulator Prototype for Learning and Assessing Phaco-sculpting Skills. <i>Lecture Notes in Computer Science</i> , 2010, , 145-156.	1.0	4
131	Integrating PhysX and OpenHaptics: Efficient force feedback generation using physics engine and haptic devices. , 2009, , .		10
132	A framework using cluster-based hybrid network architecture for collaborative virtual surgery. <i>Computer Methods and Programs in Biomedicine</i> , 2009, 96, 205-216.	2.6	8
133	A virtual training simulator for learning cataract surgery with phacoemulsification. <i>Computers in Biology and Medicine</i> , 2009, 39, 1020-1031.	3.9	75
134	Detecting fake images using watermarks and support vector machines. <i>Computer Standards and Interfaces</i> , 2008, 30, 132-136.	3.8	5
135	Simulation of Soft Deformable Objects for Virtual Reality Medical Applications. <i>Communications in Computer and Information Science</i> , 2007, , 355-364.	0.4	0
136	Interactive cutting of deformable objects using force propagation approach and digital design analogy. <i>Computers and Graphics</i> , 2006, 30, 233-243.	1.4	14
137	An efficient and scalable deformable model for virtual reality-based medical applications. <i>Artificial Intelligence in Medicine</i> , 2004, 32, 51-69.	3.8	30
138	Deformable simulation using force propagation model with finite element optimization. <i>Computers and Graphics</i> , 2004, 28, 559-568.	1.4	22
139	Interactive deformation of soft tissues with haptic feedback for medical learning. <i>IEEE Transactions on Information Technology in Biomedicine</i> , 2003, 7, 358-363.	3.6	44
140	System identification of biological cells by atomic force microscopy. <i>International Journal on Interactive Design and Manufacturing</i> , 0, , 1.	1.3	1