Mujdat Cetin

List of Publications by Year
in descending order

175 papers	5,737 citations	279798 23 h-index	106344 65 g-index
176 all docs	176 docs citations	176 times ranked	3878 citing authors

#	ARTICLE	IF	CITATIONS
1	A sparse signal reconstruction perspective for source localization with sensor arrays. IEEE Transactions on Signal Processing, 2005, 53, 3010-3022.	5.3	1,933
2	Sparsity and Compressed Sensing in Radar Imaging. Proceedings of the IEEE, 2010, 98, 1006-1020.	21.3	546
3	Feature-enhanced synthetic aperture radar image formation based on nonquadratic regularization. IEEE Transactions on Image Processing, 2001, 10, 623-631.	9.8	464
4	A nonparametric statistical method for image segmentation using information theory and curve evolution. IEEE Transactions on Image Processing, 2005, 14, 1486-1502.	9.8	249
5	Sparsity-Driven Synthetic Aperture Radar Imaging: Reconstruction, autofocusing, moving targets, and compressed sensing. IEEE Signal Processing Magazine, 2014, 31, 27-40.	5.6	234
6	A Sparsity-Driven Approach for Joint SAR Imaging and Phase Error Correction. IEEE Transactions on Image Processing, 2012, 21, 2075-2088.	9.8	178
7	Distributed fusion in sensor networks. IEEE Signal Processing Magazine, 2006, 23, 42-55.	5.6	158
8	Drowsy Driver Detection Through Facial Movement Analysis. , 2007, , 6-18.		142
9	Sparse Representation in Structured Dictionaries With Application to Synthetic Aperture Radar. IEEE Transactions on Signal Processing, 2008, 56, 3548-3561.	5.3	136
10	Nonparametric shape priors for active contour-based image segmentation. Signal Processing, 2007, 87, 3021-3044.	3.7	94
11	Discriminative Methods for Classification of Asynchronous Imaginary Motor Tasks From EEG Data. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2013, 21, 716-724.	4.9	84
12	An Augmented Lagrangian Method for Complex-Valued Compressed SAR Imaging. IEEE Transactions on Computational Imaging, 2016, 2, 235-250.	4.4	79
13	<title>Wide-angle SAR imaging</title>. , 2004, , .		66
14	Data association based on optimization in graphical models with application to sensor networks. Mathematical and Computer Modelling, 2006, 43, 1114-1135.	2.0	54
15	Feature enhancement and ATR performance using nonquadratic optimization-based SAR imaging. IEEE Transactions on Aerospace and Electronic Systems, 2003, 39, 1375-1395.	4.7	51
16	SAR imaging from partial-aperture data with frequency-band omissions. , 2005, , .		41
17	Robustness of Local Binary Patterns in Brain MR Image Analysis. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 2098-101.	0.5	40
18	A latent discriminative model-based approach for classification of imaginary motor tasks from EEG data. Journal of Neural Engineering, 2012, 9, 026020.	3.5	40

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19	Joint space aspect reconstruction of wide-angle SAR exploiting sparsity. Proceedings of SPIE, 2008, , .	0.8	36
20	Compressed Sensing of Monostatic and Multistatic SAR. IEEE Geoscience and Remote Sensing Letters, 2013, 10, 1444-1448.	3.1	36
21	Parameter Selection in Sparsity-Driven SAR Imaging. IEEE Transactions on Aerospace and Electronic Systems, 2011, 47, 3040-3050.	4.7	34
22	<title>Multitarget-multisensor data association using the tree-reweighted max-product algorithm</title>. , 2003, , .		33
23	Compressed sensing of mono-static and multi-static SAR. , 2009, , .		31
24	Multiple Feature-Enhanced SAR Imaging Using Sparsity in Combined Dictionaries. IEEE Geoscience and Remote Sensing Letters, 2013, 10, 821-825.	3.1	31
25	Dendritic spine classification using shape and appearance features based on two-photon microscopy. Journal of Neuroscience Methods, 2017, 279, 13-21.	2.5	30
26	Machine Learning Systems for Detecting Driver Drowsiness. , 2009, , 97-110.		29
27	Sparsity driven ultrasound imaging. Journal of the Acoustical Society of America, 2012, 131, 1271-1281.	1.1	28
28	Brain Computer Interface based robotic rehabilitation with online modification of task speed. , 2013, 2013, 6650423.		26
29	Prediction of Reaction Time and Vigilance Variability From Spatio-Spectral Features of Resting-State EEG in a Long Sustained Attention Task. IEEE Journal of Biomedical and Health Informatics, 2020, 24, 2550-2558.	6.3	26
30	Plug-and-Play Synthetic Aperture Radar Image Formation Using Deep Priors. IEEE Transactions on Computational Imaging, 2021, 7, 43-57.	4.4	26
31	Joint SAR Imaging and Multi-Feature Decomposition From 2-D Under-Sampled Data Via Low-Rankness Plus Sparsity Priors. IEEE Transactions on Computational Imaging, 2019, 5, 1-16.	4.4	24
32	Discrimination of Moderate and Acute Drowsiness Based on Spontaneous Facial Expressions. , 2010, , .		21
33	A nonquadratic regularization-based technique for joint SAR imaging and model error correction. Proceedings of SPIE, 2009, , .	0.8	20
34	Recursive Bayesian Coding for BCIs. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2017, 25, 704-714.	4.9	19
35	Electroencephalographic identifiers of motor adaptation learning. Journal of Neural Engineering, 2017, 14, 046027.	3.5	18
36	Nonparametric Joint Shape and Feature Priors for Image Segmentation. IEEE Transactions on Image Processing, 2017, 26, 5312-5323.	9.8	18

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37	Data Mining Spontaneous Facial Behavior with Automatic Expression Coding. Lecture Notes in Computer Science, 2008, , 1-20.	1.3	18
38	Coupled Nonparametric Shape and Moment-Based Intershape Pose Priors for Multiple Basal Ganglia Structure Segmentation. IEEE Transactions on Medical Imaging, 2010, 29, 1959-1978.	8.9	16
39	Disjunctive normal shape models. , 2015, 2015, 1535-1539.		16
40	Context-aware hybrid classification system for fine-grained retail product recognition. , 2016, , .		16
41	Covariance Matrix Estimation for Interest-Rate Risk Modeling via Smooth and Monotone Regularization. IEEE Journal on Selected Topics in Signal Processing, 2016, 10, 1006-1014.	10.8	15
42	A mobile app that uses neurofeedback and multi-sensory learning methods improves reading abilities in dyslexia: A pilot study. Applied Neuropsychology: Child, 2022, 11, 518-528.	1.4	15
43	Online discriminative graph learning from multi-class smooth signals. Signal Processing, 2021, 186, 108101.	3.7	15
44	Disjunctive Normal Parametric Level Set With Application to Image Segmentation. IEEE Transactions on Image Processing, 2017, 26, 2618-2631.	9.8	14
45	Changes in EEG complexity with neurofeedback and multi-sensory learning in children with dyslexia: A multiscale entropy analysis. Applied Neuropsychology: Child, 2022, 11, 133-144.	1.4	14
46	Disjunctive Normal Shape and Appearance Priors with Applications to Image Segmentation. Lecture Notes in Computer Science, 2015, 9351, 703-710.	1.3	14
47	Autofocused compressive SAR imaging based on the alternating direction method of multipliers. , 2017, , .		13
48	Joint image formation and anisotropy characterization in wide-angle SAR. , 2006, , .		12
49	AR-PCA-HMM Approach for Sensorimotor Task Classification in EEG-based Brain-Computer Interfaces. , 2010, , .		12
50	Video-SAR Imaging of Dynamic Scenes Using Low-Rank and Sparse Decomposition. IEEE Transactions on Computational Imaging, 2021, 7, 384-398.	4.4	12
51	Learning the Dynamics and Time-Recursive Boundary Detection of Deformable Objects. IEEE Transactions on Image Processing, 2008, 17, 2186-2200.	9.8	11
52	A graphical model based solution to the facial feature point tracking problem. Image and Vision Computing, 2011, 29, 335-350.	4.5	11
53	SAR moving target imaging in a sparsity-driven framework. Proceedings of SPIE, 2011, , .	0.8	11
54	A joint classification and segmentation approach for dendritic spine segmentation in 2-photon microscopy images. , 2015, , .		11

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55	MCMC Shape Sampling for Image Segmentation with Nonparametric Shape Priors. , 2016, , .		11
56	Image Segmentation Using Disjunctive Normal Bayesian Shape and Appearance Models. IEEE Transactions on Medical Imaging, 2018, 37, 293-305.	8.9	11
57	Graphical Model-based Approaches to Target Tracking in Sensor Networks: An Overview of Some Recent Work and Challenges. , 2007, , .		10
58	Sparse Signal Representation for Complex-Valued Imaging. , 2009, , .		10
59	Automatic dendritic spine detection using multiscale dot enhancement filters and SIFT features. , 2014, , .		10
60	Combining learning-based intensity distributions with nonparametric shape priors for image segmentation. Signal, Image and Video Processing, 2014, 8, 789-798.	2.7	10
61	Asynchronous decoding of finger movements from ECoG signals using long-range dependencies conditional random fields. Journal of Neural Engineering, 2016, 13, 036017.	3.5	10
62	Tracking-assisted Detection of Dendritic Spines in Time-Lapse Microscopic Images. Neuroscience, 2018, 394, 189-205.	2.3	10
63	Improving cognitive functions of dyslexies using multi-sensory learning and EEG neurofeedback. , 2018, , .		10
64	<title>Analysis of the impact of feature-enhanced SAR imaging on ATR performance</title>. , 2002, , .		9
65	Feature compression: A framework for multi-view multi-person tracking in visual sensor networks. Journal of Visual Communication and Image Representation, 2014, 25, 864-873.	2.8	9
66	An Augmented Lagrangian Method for image reconstruction with multiple features. , 2015, , .		9
67	Compressed Sensing ISAR Reconstruction Considering Highly Maneuvering Motion. Electronics (Switzerland), 2017, 6, 21.	3.1	9
68	A Novel Plug-and-Play SAR Reconstruction Framework Using Deep Priors. , 2019, , .		9
69	Hyper-parameter selection in non-quadratic regularization-based radar image formation. , 2008, , .		8
70	Multiple feature-enhanced synthetic aperture radar imaging. , 2009, , .		8
71	Word-level language modeling for P300 spellers based on discriminative graphical models. Journal of Neural Engineering, 2015, 12, 026007.	3.5	8
72	SAR moving object imaging using sparsity imposing priors. Eurasip Journal on Advances in Signal Processing, 2017, 2017, .	1.7	8

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73	SAR imaging of moving targets by subaperture based low-rank and sparse decomposition. , 2017, , .		8
74	\<title>Application of point enhancement technique for ship target recognition by HRR\</title>. , 2003, , .		7
75	Incorporation of a language model into a brain computer interface based speller through HMMs. , 2013, , .		7
76	Dictionary learning for sparsity-driven SAR image reconstruction. , 2014, , .		7
77	Low-rank sparse matrix decomposition for sparsity-driven SAR image reconstruction. , 2015, , .		7
78	Sparse representation-based algorithm for joint SAR image formation and autofocus. Signal, Image and Video Processing, 2017, 11, 589-596.	2.7	7
79	Fast target detection in radar images using Rayleigh Mixtures and Summed Area Tables. , 2018, 77, 86-101.		7
80	Compressive Synthetic Aperture Radar Imaging and Autofocusing by Augmented Lagrangian Methods. IEEE Transactions on Computational Imaging, 2022, 8, 273-285.	4.4	7
81	EEG Emotion Recognition via Graph-based Spatio-Temporal Attention Neural Networks. , 2021, 2021, 571-574.		7
82	Dendritic spine shape classification from two-photon microscopy images. , 2015, , .		6
83	Disjunctive Normal Shape Boltzmann Machine. , 2017, , .		6
84	SAR ATR in the phase history domain using deep convolutional neural networks. , 2018, , .		6
85	Online Graph Learning under Smoothness Priors. , 2021, , .		6
86	Joint sparsity-driven inversion and model error correction for radar imaging. , 2010, , .		5
87	Sparsity-driven image formation and space-variant focusing for SAR. , 2011, , .		5
88	A group sparsity-driven approach to 3-D action recognition. , 2011, , .		5
89	Region based target detection approach for synthetic aperture radar images and its parallel implementation. Proceedings of SPIE, 2012, , .	0.8	5
90	A robust nonlinear scale space change detection approach for SAR images. Proceedings of SPIE, 2013, , .	0.8	5

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91	Detection of intention level in response to task difficulty from EEG signals. , 2013, , .		5
92	Pseudo-Marginal MCMC Sampling for Image Segmentation Using Nonparametric Shape Priors. IEEE Transactions on Image Processing, 2019, 28, 5702-5715.	9.8	5
93	Context-Aware Confidence Sets for Fine-Grained Product Recognition. IEEE Access, 2019, 7, 76376-76393.	4.2	5
94	<title>Formation of HRR profiles by nonquadratic optimization for improved feature extraction</title>. , 2002, 4727, 213.		4
95	<title>Region-enhanced imaging for sparse-aperture passive radar</title>. , 2004, , .		4
96	Coupled nonparametric shape priors for segmentation of multiple basal ganglia structures. , 2008, , .		4
97	Design, Implementation and Evaluation of a Real-Time P300-based Brain-Computer Interface System. , 2010, , .		4
98	Control of a BCI-based upper limb rehabilitation system utilizing posterior probabilities. , 2013, , .		4
99	An Augmented Lagrangian Method for autofocused Compressed SAR Imaging. , 2015, , .		4
100	Dendritic spine shape analysis using disjunctive normal shape models. , 2016, , .		4
101	On comparison of manifold learning techniques for dendritic spine classification. , 2016, , .		4
102	Emotionality of Turkish language and primary adaptation of affective English norms for Turkish. Current Psychology, 2019, 38, 273-294.	2.8	4
103	Prediction of Response Time and Vigilance Score in a Sustained Attention Task from Pre-trial Phase Synchrony using Deep Neural Networks. , 2019, 2019, 676-679.		4
104	Automatic Annotation of X-Ray Images: A Study on Attribute Selection. Lecture Notes in Computer Science, 2010, , 97-109.	1.3	4
105	Improved DInSAR timeâ€series reconstruction in the presence of phase unwrapping errors using Huberâ€norm. IET Radar, Sonar and Navigation, 2019, 13, 1063-1073.	1.8	4
106	Variational approaches on discontinuity localization and field estimation in sea surface temperature and soil moisture. IEEE Transactions on Geoscience and Remote Sensing, 2006, 44, 336-350.	6.3	3
107	Target localization in acoustic sensor networks using factor graphs. , 2008, , .		3
108	Segmentation of the evolving left ventricle by learning the dynamics. , 2008, , .		3

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109	Monte Carlo Optimization of Decentralized Estimation Networks Over Directed Acyclic Graphs Under Communication Constraints. IEEE Transactions on Signal Processing, 2011, 59, 5558-5576.	5.3	3
110	Disjunctive normal level set: An efficient parametric implicit method. , 2016, 2016, 4299-4303.		3
111	Nonparametric joint shape and feature priors for segmentation of dendritic spines. , 2016, , .		3
112	A Local Binary Patterns and Shape Priors Based Texture Segmentation Method. , 2007, , .		2
113	Factors that Affect Classification Performance in EEG based Brain-Computer Interfaces. , 2007, , .		2
114	segmentation of multiple brain structures using coupled nonparametric shape priors. , 2008, , .		2
115	Detecting driver drowsiness using computer vision techniques. , 2008, , .		2
116	An efficient Monte Carlo approach for optimizing decentralized estimation networks constrained by undirected topologies. , 2009, , .		2
117	A brain-computer interface system for online spelling. , 2010, , .		2
118	Automatic and semi-automatic extraction of curvilinear features from SAR images. Proceedings of SPIE, 2012, , .	0.8	2
119	A sparsity-driven approach to multi-camera tracking in visual sensor networks. , 2013, , .		2
120	A watershed and active contours based method for dendritic spine segmentation in 2-photon microscopy images. , 2013, , .		2
121	Detection of task difficulty from intention level information in the EEG features. , 2014, , .		2
122	Retail product recognition with a graphical shelf model. , 2017, , .		2
123	RmSAT-CFAR: Fast and accurate target detection in radar images. SoftwareX, 2018, 8, 39-42.	2.6	2
124	Electroencephalographic identifiers of reading abilities in turkish language. , 2018, , .		2
125	Neural Signatures of Motor Skill in the Resting Brain. , 2019, , .		2
126	Dendritic Spine Shape Analysis: A Clustering Perspective. Lecture Notes in Computer Science, 2016, , 256-273.	1.3	2

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127	Stereo based 3D head pose tracking using the scale invariant featrue transform. , 2008, , .		1
128	Hyper-parameter selection in advanced synthetic aperture radar imaging algorithms. , 2008, , .		1
129	Volumetric segmentation of multiple basal ganglia structures using nonparametric coupled shape and inter-shape pose priors. , 2009, , .		1
130	Binary and nonbinary description of hypointensity for search and retrieval of brain MR images. Proceedings of SPIE, 2009, , .	0.8	1
131	Segmentation of Anatomical Structures in Brain MR Images Using Atlases in FSL - A Quantitative Approach. , 2010, , .		1
132	The first Brain-Computer Interface utilizing a Turkish language model. , 2013, , .		1
133	Interactive ship segmentation in SAR images. , 2013, , .		1
134	Dictionary learning-based approach for SAR image reconstruction. , 2014, , .		1
135	Optimization of decentralized random field estimation networks under communication constraints through Monte Carlo methods. , 2014, 34, 16-28.		1
136	On the Quality and Timeliness of Fusion in a Random Access Sensor Network. IEEE Signal Processing Letters, 2015, 22, 1259-1263.	3.6	1
137	Semi-supervised adaptation of motor imagery based BCI systems. , 2015, , .		1
138	Sparsity-driven SAR image reconstruction via low-rank sparse matrix decomposition. , 2015, , .		1
139	Sparsity-driven bandwidth-efficient decentralized tracking in visual sensor networks. Computer Vision and Image Understanding, 2015, 139, 40-58.	4.7	1
140	Resting-state EEG correlates of motor learning performance in a force-field adaptation task. , 2016, , .		1
141	A Markov Chain Monte Carlo based rigid image registration method. , 2017, , .		1
142	On comparison of different classification techniques for the fine-grained retail product recognition problem. , 2017, , .		1
143	Pre-movement contralateral EEG low beta power is modulated with motor adaptation learning. , 2017, , .		1
144	Combining Nonparametric Spatial Context Priors With Nonparametric Shape Priors for Dendritic Spine Segmentation in 2-Photon Microscopy Images. , 2019, , .		1

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145	Automated X-Ray Image Annotation. Lecture Notes in Computer Science, 2010, , 247-254.	1.3	1
146	A subaperture based approach for SAR moving target imaging by low-rank and sparse decomposition. , 2018, , .		1
147	What Does Your Computational Imaging Algorithm Not Know?: A Plug-and-Play Model Quantifying Model Uncertainty. , 2021, , .		1
148	Eye Feature Point Tracking by Using Graphical Models. , 2007, , .		0
149	A Robust Facial Feature Point Tracker using Graphical Models. , 2007, , .		0
150	Non-quadratic Regularization Based Image Deblurring: Automatic Parameter Selection and Feature Based Evaluation. , 2007, , .		0
151	A Sparse Signal Representation-based Approach to Image Formation and Anisotropy Determination in Wide-Angle Radar. , 2007, , .		0
152	Decentralized random-field estimation under communication constraints. , 2009, , .		0
153	A nonquadratic regularization based image reconstruction technique for SAR data with phase errors. , 2009, , .		0
154	Multi-object segmentation using coupled nonparametric shape and relative pose priors. , 2009, , .		0
155	A brain-computer interface algorithm based on Hidden Markov models and dimensionality reduction. , 2010, , .		0
156	Sparsity-driven focused SAR image formation. , 2010, , .		0
157	Segmentation of inhomogeneous foreground and background intensity objects using a probability density function based data term and nonparametric shape priors. , 2012, , .		0
158	Special Issue on Awards from ICPR 2010. Pattern Recognition Letters, 2012, 33, 808-810.	4.2	0
159	Biomedical image time series registration with particle filtering. , 2013, , .		0
160	Automated dendritic spine tracking on 2-photon microscopic images. , 2015, , .		0
161	Adaptive neurofeedback on parieto-occipital cortex for motor learning performance. , 2015, , .		0
162	Information-theoretic noisy band detection in hyperspectral imagery. , 2015, , .		0

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163	Design and comparative evaluation of a BCI-based upper extremity robotic rehabilitation protocol. , 2015, , .		0
164	Dendritic spine classification based on two-photon microscopic images using sparse representation. , 2016, , .		0
165	Classification of motor task execution speed from EEG data. , 2016, , .		0
166	Disjunctive normal unsupervised LDA for P300-based brain-computer interfaces. , 2016, , .		0
167	Detection of motor task difficulty level from EEG data. , 2016, , .		0
168	Coupled shape priors for dynamic segmentation of dendritic spines. , 2017, , .		0
169	3B dendritic spine segmentation using nonparametric shape priors. , 2017, , .		0
170	Image Segmentation by Deep Learning of Disjunctive Normal Shape Model Shape Representation. , 2018, , .		0
171	Sparsity and Compressed Sensing in Mono-Static and Multi-Static Radar Imaging. Signals and Communication Technology, 2014, , 395-421.	0.5	0
172	Decentralized Human Tracking in Visual Sensor Networks: Using Sparse Representation for Efficient Communication. , 2014, , 45-73.		0
173	Sparsity-driven coupled imaging and autofocusing for interferometric SAR. , 2018, , .		0
174	Sparse 4D TomoSAR imaging in the presence of non-linear deformation. , 2018, , .		0
175	Graphical Models and Fusion in Sensor Networks. , 0, , 215-249.		0