Mohamed Cheriet

List of Publications by Year in Descending Order

152 papers	2,407 citations	25 h-index	41 g-index
161 ext. papers	3,069 ext. citations	5.3 avg, IF	5.86 L-index

#	Paper	IF	Citations
152	Dynamic Controller/Switch Mapping: A Service Oriented Assignment Approach. *IEEE Transactions on Parallel and Distributed Systems*, **2022**, 1-1	3.7	
151	Anomaly Prediction with Hybrid Supervised/Unsupervised Deep Learning for Elastic Optical Networks: A Multi-Index Correlative Approach. *Journal of Lightwave Technology*, **2022**, 1-1	4	2
150	Federated Imitation Learning: A Cross-Domain Knowledge Sharing Framework for Traffic Scheduling in 6G Ubiquitous IoT. *IEEE Network*, **2021**, 35, 136-142	11.4	1
149	. *IEEE Transactions on Network and Service Management*, **2021**, 18, 538-551	4.8	6
148	. *IEEE Transactions on Network and Service Management*, **2021**, 18, 882-893	4.8	17
147	UAV Control for Wireless Service Provisioning in Critical Demand Areas: A Deep Reinforcement Learning Approach. *IEEE Transactions on Vehicular Technology*, **2021**, 70, 7138-7152	6.8	7
146	Data-Driven Network Slicing From Core to RAN for 5G Broadcasting Services. *IEEE Transactions on Broadcasting*, **2021**, 67, 23-32	4.7	24
145	Deep-Reinforcement-Learning-Based Spectrum Resource Management for Industrial Internet of Things. *IEEE Internet of Things Journal*, **2021**, 8, 3476-3489	10.7	14
144	Multispectral Image Reconstruction From Color Images Using Enhanced Variational Autoencoder and Generative Adversarial Network. *IEEE Access*, **2021**, 9, 1666-1679	3.5	9
143	Blind Decomposition of Multispectral Document Images Using Orthogonal Nonnegative Matrix Factorization. *IEEE Transactions on Image Processing*, **2021**, 30, 5997-6012	8.7	2
142	Share to Run IoT Services in Edge Cloud Computing. *IEEE Internet of Things Journal*, **2021**, 1-1	10.7	2
141	Improved Intelligent Image Segmentation Algorithm for Mechanical Sensors in Industrial IoT: A Joint Learning Approach. *Electronics (Switzerland)*, **2021**, 10, 446	2.6	0
140	Reliability-Oriented and Resource-Efficient Service Function Chain Construction and Backup. *IEEE Transactions on Network and Service Management*, **2021**, 18, 240-257	4.8	4
139	Core and Spectrum Allocation Based on Association Rules Mining in Spectrally and Spatially Elastic Optical Networks. *IEEE Transactions on Communications*, **2021**, 69, 5299-5311	6.9	17
138	Automatic guarantee scheme for intent-driven network slicing and reconfiguration. *Journal of Network and Computer Applications*, **2021**, 190, 103163	7.9	10
137	Context-aware Model Predictive Control framework for multi-zone buildings. *Journal of Building Engineering*, **2021**, 42, 102340	5.2	2
136	Parallel Route Optimization and Service Assurance in Energy-Efficient Software-Defined Industrial IoT Networks. *IEEE Access*, **2021**, 9, 24682-24696	3.5	9

135	Energy-Efficient Method Based on Dynamic Topology Switching and Reliability in SDNs. *IEEE Transactions on Sustainable Computing*, **2021**, 1-1	3.5	
134	Real-Time Remote Health Monitoring System Driven by 5G MEC-IoT. *Electronics (Switzerland)*, **2020**, 9, 1753	2.6	13
133	LSTM-based indoor air temperature prediction framework for HVAC systems in smart buildings. *Neural Computing and Applications*, **2020**, 32, 17569-17585	4.8	18
132	Application-Oriented Free Data in Cellular Networks. *IEEE Access*, **2020**, 8, 71173-71188	3.5	
131	BLCS: Brain-Like Distributed Control Security in Cyber Physical Systems. *IEEE Network*, **2020**, 34, 8-15	11.4	22
130	A Human-Guided Machine Learning Approach for 5G Smart Tourism IoT. *Electronics (Switzerland)*, **2020**, 9, 947	2.6	7
129	Historical documents dating using multispectral imaging and ordinal classification. *Journal of Cultural Heritage*, **2020**, 45, 71-80	2.9	4
128	. *IEEE Internet of Things Journal*, **2020**, 7, 5412-5425	10.7	4
127	Should we fear the rebound effect in smart homes?. *Renewable and Sustainable Energy Reviews*, **2020**, 125, 109798	16.2	20
126	. *IEEE Transactions on Smart Grid*, **2020**, 11, 5019-5027	10.7	1
125	Deep Learning-Based Resource Allocation for 5G Broadband TV Service. *IEEE Transactions on Broadcasting*, **2020**, 66, 800-813	4.7	26
124	UCAA: User-Centric User Association and Resource Allocation in Fog Computing Networks. *IEEE Access*, **2020**, 8, 10671-10685	3.5	6
123	. *IEEE Access*, **2020**, 8, 60401-60416	3.5	5
122	Prioritized Uplink Resource Allocation in Smart Grid Backscatter Communication Networks via Deep Reinforcement Learning. *Electronics (Switzerland)*, **2020**, 9, 622	2.6	2
121	Intelligent-Driven Green Resource Allocation for Industrial Internet of Things in 5G Heterogeneous Networks. *IEEE Transactions on Industrial Informatics*, **2020**, 1-1	11.9	11
120	Placement and Chaining for Run-Time IoT Service Deployment in Edge-Cloud. *IEEE Transactions on Network and Service Management*, **2020**, 17, 459-472	4.8	15
119	Gaussian Process Regression Ensemble Model for Network Traffic Prediction. *IEEE Access*, **2020**, 8, 176540-176554	3.5	
118	Service and Resource Aware Flow Management Scheme for an SDN-Based Smart Digital Campus Environment. *IEEE Access*, **2020**, 8, 119635-119653	3.5	6

117	Forgery Detection in Hyperspectral Document Images using Graph Orthogonal Nonnegative Matrix Factorization **2020**,		8
116	Learning Framework for IoT Services Chain Implementation in Edge Cloud Platform **2020**,		1
115	MSdB-NMF: MultiSpectral Document Image Binarization Framework via Non-negative Matrix Factorization Approach. *IEEE Transactions on Image Processing*, **2020**, PP,	8.7	1
114	The Page Image: Towards a Visual History of Digital Documents. *Book History*, **2020**, 23, 365-397	0.5	1
113	Time Series-Based GHG Emissions Prediction for Smart Homes. *IEEE Transactions on Sustainable Computing*, **2020**, 5, 134-146	3.5	8
112	A hybrid GPU-FPGA based design methodology for enhancing machine learning applications performance. *Journal of Ambient Intelligence and Humanized Computing*, **2020**, 11, 2309-2323	3.7	10
111	Multi Features and Multi-time steps LSTM Based Methodology for Bike Sharing Availability Prediction. *Procedia Computer Science*, **2019**, 155, 394-401	1.6	10
110	TCO Planning Game for 5G Multitenant Virtualized Mobile BackHaul (V-MBH) Network. *Journal of Lightwave Technology*, **2019**, 37, 6193-6206	4	1
109	Accounting for fluctuating demand in the life cycle assessments of residential electricity consumption and demand-side management strategies. *Journal of Cleaner Production*, **2019**, 240, 118251	10.3	15
108	. *IEEE Access*, **2019**, 7, 58990-59001	3.5	6
107	Assessing behavioural change with agent-based life cycle assessment: Application to smart homes. *Renewable and Sustainable Energy Reviews*, **2019**, 111, 365-376	16.2	16
106	Visual information retrieval from historical document images. *Journal of Cultural Heritage*, **2019**, 40, 99-112		1
105	Multiscale simulation of ink seepage into paper: A mesoscopic variational model. *Computer Physics Communications*, **2019**, 239, 1-13	4.2	2
104	Blind quality assessment metric and degradation classification for degraded document images. *Signal Processing: Image Communication*, **2019**, 76, 11-21	2.8	5
103	SemTra: A semi-supervised approach to traffic flow labeling with minimal human effort. *Pattern Recognition*, **2019**, 91, 1-12	7.7	5
102	Embedding Multiple-Step-Ahead Traffic Prediction in Network Energy Efficiency Problem **2019**,		1
101	. *IEEE Access*, **2019**, 7, 133738-133748	3.5	7
100	An Improved UAV-PHD Filter-Based Trajectory Tracking Algorithm for Multi-UAVs in Future 5G IoT Scenarios. *Electronics (Switzerland)*, **2019**, 8, 1188	2.6	12

99	Gabor filter-based texture for ancient degraded document image binarization. *Pattern Analysis and Applications*, **2019**, 22, 1-22	2.3	9
98	Word spotting and recognition via a joint deep embedding of image and text. *Pattern Recognition*, **2019**, 88, 312-320	7.7	9
97	. *IEEE Transactions on Smart Grid*, **2019**, 10, 5345-5359	10.7	1
96	Efficient Provisioning of Security Service Function Chaining Using Network Security Defense Patterns. *IEEE Transactions on Services Computing*, **2019**, 12, 534-549	4.8	18
95	Elastic memory learning for fuzzy inference models. *Applied Soft Computing Journal*, **2018**, 67, 1-7	7.5	1
94	Efficient No-Reference Quality Assessment and Classification Model for Contrast Distorted Images. *IEEE Transactions on Broadcasting*, **2018**, 64, 518-523	4.7	27
93	A Survey on Metrics and Measurement Tools for Sustainable Distributed Cloud Networks. *IEEE Communications Surveys and Tutorials*, **2018**, 20, 1244-1270	37.1	9
92	Preemptive cloud resource allocation modeling of processing jobs. *Journal of Supercomputing*, **2018**, 74, 2116-2150	2.5	4
91	. *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing*, **2018**, 11, 1191-1202	4.7	11
90	Convolutional pyramid of bidirectional character sequences for the recognition of handwritten words. *Pattern Recognition Letters*, **2018**, 111, 87-93	4.7	6
89	Automatic segmentation and reconstruction of historical manuscripts in gradient domain. *IET Image Processing*, **2018**, 12, 502-512	1.7	2
88	Real-time environmental assessment of electricity use: a tool for sustainable demand-side management programs. *International Journal of Life Cycle Assessment*, **2018**, 23, 1981-1994	4.6	19
87	Dynamic Optimal Countermeasure Selection for Intrusion Response System. *IEEE Transactions on Dependable and Secure Computing*, **2018**, 15, 755-770	3.9	21
86	Towards end-to-end integrated optical packet network: Empirical analysis. *Optical Switching and Networking*, **2018**, 27, 18-39	1.6	9
85	The efficiency of the NSHPZ-HMM: theoretical and practical study. *Applied Intelligence*, **2018**, 48, 4660-4677	4.9	1
84	BackHauling-as-a-Service (BHaaS) for 5G Optical Sliced Networks: An Optimized TCO Approach. *Journal of Lightwave Technology*, **2018**, 36, 4006-4017	4	7
83	A TOPSIS-based QoE model for adapted content selection of slide documents. *Multimedia Tools and Applications*, **2018**, 77, 26741-26768	2.5	
82	Energy and connectivity aware resource optimization of nodes traffic distribution in smart home networks. *Future Generation Computer Systems*, **2018**, 88, 559-570	7.5	3

81	Hierarchical representation learning using spherical k-means for segmentation-free word spotting. *Pattern Recognition Letters*, **2018**, 101, 52-59	4.7	4
80	Subjective and objective quality assessment of degraded document images. *Journal of Cultural Heritage*, **2018**, 30, 199-209	2.9	8
79	**2018**,		2
78	NFV-Based Architecture for the Interworking Between WebRTC and IMS. *IEEE Transactions on Network and Service Management*, **2018**, 15, 1363-1377	4.8	5
77	Multiple-Step-Ahead Traffic Prediction in High-Speed Networks. *IEEE Communications Letters*, **2018**, 22, 2447-2450	3.8	19
76	Graph and Sparse-Based Robust Nonnegative Block Value Decomposition for Clustering. *IEEE Journal on Selected Topics in Signal Processing*, **2018**, 12, 1561-1574	7.5	4
75	A distributed approach to emergency demand response in geo-distributed mixed-use buildings. *Journal of Building Engineering*, **2018**, 19, 506-518	5.2	5
74	Consideration of marginal electricity in real-time minimization of distributed data centre emissions. *Journal of Cleaner Production*, **2017**, 143, 116-124	10.3	24
73	PSI: Patch-based script identification using non-negative matrix factorization. *Pattern Recognition*, **2017**, 67, 328-339	7.7	5
72	A new efficient binarization method: application to degraded historical document images. *Signal, Image and Video Processing*, **2017**, 11, 1155-1162	1.6	15
71	Combination of context-dependent bidirectional long short-term memory classifiers for robust offline handwriting recognition. *Pattern Recognition Letters*, **2017**, 90, 58-64	4.7	15
70	A Monte-Carlo approach to lifespan failure performance analysis of the network fabric in modular data centers. *Journal of Network and Computer Applications*, **2017**, 87, 131-146	7.9	2
69	Consequences of Future Data Center Deployment in Canada on Electricity Generation and Environmental Impacts: A 2015⊡2030 Prospective Study. *Journal of Industrial Ecology*, **2017**, 21, 1312-1322	7.2	9
68	. *IEEE Signal Processing Letters*, **2017**, 24, 1651-1655	3.2	10
67	Tandem hidden Markov models using deep belief networks for offline handwriting recognition. *Frontiers of Information Technology and Electronic Engineering*, **2017**, 18, 978-988	2.2	8
66	Automatic evaluation of vessel diameter variation from 2D X-ray angiography. *International Journal of Computer Assisted Radiology and Surgery*, **2017**, 12, 1867-1876	3.9	2
65	Forgetting of unused classes in missing data environment using automatically generated data: Application to on-line handwritten gesture command recognition. *Pattern Recognition*, **2017**, 72, 355-367	7.7	5
64	KRNN: k Rare-class Nearest Neighbour classification. *Pattern Recognition*, **2017**, 62, 33-44	7.7	47

63	Iterative Classifiers Combination Model for Change Detection in Remote Sensing Imagery. *IEEE Transactions on Geoscience and Remote Sensing*, **2016**, 54, 6997-7008	8.1	14
62	Mean Deviation Similarity Index: Efficient and Reliable Full-Reference Image Quality Evaluator. *IEEE Access*, **2016**, 4, 5579-5590	3.5	63
61	Incremental Similarity for real-time on-line incremental learning systems. *Pattern Recognition Letters*, **2016**, 74, 61-67	4.7	3
60	Taxonomy of information security risk assessment (ISRA). *Computers and Security*, **2016**, 57, 14-30	4.9	85
59	Real-time optimized NFV architecture for internetworking WebRTC and IMS **2016**,		7
58	Gaussian Process Regression Based Traffic Modeling and Prediction in High-Speed Networks **2016**,		12
57	Energy Efficient Resource Allocation in Cloud Computing Environments. *IEEE Access*, **2016**, 4, 8544-8557	3.5	32
56	Virtual Edge-Based Smart Community Network Management. *IEEE Internet Computing*, **2016**, 20, 32-41	2.4	11
55	Performance analysis of modified BCube topologies for virtualized data center networks. *Computer Communications*, **2016**, 96, 52-61	5.1	8
54	A graph-based approach for spatio-temporal segmentation of coronary arteries in X-ray angiographic sequences. *Computers in Biology and Medicine*, **2016**, 79, 45-58	7	9
53	MUG: A Parameterless No-Reference JPEG Quality Evaluator Robust to Block Size and Misalignment. *IEEE Signal Processing Letters*, **2016**, 23, 1577-1581	3.2	3
52	SO-ARTIST: Self-Organized ART-2A inspired clustering for online Takagi–Sugeno fuzzy models. *Applied Soft Computing Journal*, **2015**, 31, 132-152	7.5	2
51	Influence of Color-to-Gray Conversion on the Performance of Document Image Binarization: Toward a Novel Optimization Problem. *IEEE Transactions on Image Processing*, **2015**, 24, 3637-51	8.7	14
50	Taxonomy of Distributed Denial of Service mitigation approaches for cloud computing. *Journal of Network and Computer Applications*, **2015**, 58, 165-179	7.9	40
49	Multistage OCDO: Scalable Security Provisioning Optimization in SDN-Based Cloud **2015**,		4
48	Tensor representation learning based image patch analysis for text identification and recognition. *Pattern Recognition*, **2015**, 48, 1211-1224	7.7	16
47	OpenFlow-based in-network Layer-2 adaptive multipath aggregation in data centers. *Computer Communications*, **2015**, 61, 58-69	5.1	13
46	Environment-Aware Virtual Slice Provisioning in Green Cloud Environment. *IEEE Transactions on Services Computing*, **2015**, 8, 507-519	4.8	15

#	Title	IF	Cit.
45	Carbon-aware distributed cloud: multi-level grouping genetic algorithm. *Cluster Computing*, **2015**, 18, 477-491	2.1	22
44	ICDAR 2015 contest on MultiSpectral Text Extraction (MS-TEx 2015) **2015**,		14
43	Taxonomy of intrusion risk assessment and response system. *Computers and Security*, **2014**, 45, 1-16	4.9	50
42	Virtual Slice Assignment in Large-Scale Cloud Interconnects. *IEEE Internet Computing*, **2014**, 18, 37-46	2.4	3
41	Phase-based binarization of ancient document images: model and applications. *IEEE Transactions on Image Processing*, **2014**, 23, 2916-30	8.7	26
40	Arabic word descriptor for handwritten word indexing and lexicon reduction. *Pattern Recognition*, **2014**, 47, 3477-3486	7.7	6
39	Large margin low rank tensor analysis. *Neural Computation*, **2014**, 26, 761-80	2.9	18
38	Constrained Energy Maximization and Self-Referencing Method for Invisible Ink Detection from Multispectral Historical Document Images **2014**,		11
37	A modified GHG intensity indicator: Toward a sustainable global economy based on a carbon border tax and emissions trading. *Energy Policy*, **2013**, 57, 363-380	7.2	14
36	Historical document image restoration using multispectral imaging system. *Pattern Recognition*, **2013**, 46, 2297-2312	7.7	47
35	3-D curvilinear structure detection filter via structure-ball analysis. *IEEE Transactions on Image Processing*, **2013**, 22, 2849-63	8.7	6
34	Ground-Truth Estimation in Multispectral Representation Space: Application to Degraded Document Image Binarization **2013**,		6
33	Powering a Data Center Network via Renewable Energy: A Green Testbed. *IEEE Internet Computing*, **2013**, 17, 40-49	2.4	29
32	A learning framework for the optimization and automation of document binarization methods. *Computer Vision and Image Understanding*, **2013**, 117, 269-280	4.3	21
31	A protocol for quantifying the carbon reductions achieved through the provision of low or zero carbon ICT services. *Sustainable Computing: Informatics and Systems*, **2012**, 2, 23-32	3	3
30	AdOtsu: An adaptive and parameterless generalization of Otsu's method for document image binarization. *Pattern Recognition*, **2012**, 45, 2419-2431	7.7	128
29	W-TSV: Weighted topological signature vector for lexicon reduction in handwritten Arabic documents. *Pattern Recognition*, **2012**, 45, 3277-3287	7.7	11
28	Nonrigid 2D/3D registration of coronary artery models with live fluoroscopy for guidance of cardiac interventions. *IEEE Transactions on Medical Imaging*, **2012**, 31, 1557-72	11.7	50

27	Environmental-aware virtual data center network. *Computer Networks*, **2012**, 56, 2538-2550	5.4	14
26	Time-Frequency Distributions Based on Compact Support Kernels: Properties and Performance Evaluation. *IEEE Transactions on Signal Processing*, **2012**, 60, 2814-2827	4.8	34
25	Real-time knowledge-based processing of images: application of the online NLPM method to perceptual visual analysis. *IEEE Transactions on Image Processing*, **2012**, 21, 3390-404	8.7	2
24	Maximum Entropy Gibbs Density Modeling for Pattern Classification. *Entropy*, **2012**, 14, 2478-2491	2.8	2
23	Semisupervised learning using Bayesian interpretation: application to LS-SVM. *IEEE Transactions on Neural Networks*, **2011**, 22, 513-24		27
22	Non-local adaptive structure tensors: Application to anisotropic diffusion and shock filtering. *Image and Vision Computing*, **2011**, 29, 730-743	3.7	10
21	Beyond pixels and regions: A non-local patch means (NLPM) method for content-level restoration, enhancement, and reconstruction of degraded document images. *Pattern Recognition*, **2011**, 44, 363-374	7.7	13
20	Unsupervised MRI segmentation of brain tissues using a local linear model and level set. *Magnetic Resonance Imaging*, **2011**, 29, 243-59	3.3	22
19	A spatially adaptive statistical method for the binarization of historical manuscripts and degraded document images. *Pattern Recognition*, **2011**, 44, 2184-2196	7.7	40
18	Help-Training for semi-supervised support vector machines. *Pattern Recognition*, **2011**, 44, 2220-2230	7.7	25
17	A multi-scale framework for adaptive binarization of degraded document images. *Pattern Recognition*, **2010**, 43, 2186-2198	7.7	121
16	Genetic algorithm-based training for semi-supervised SVM. *Neural Computing and Applications*, **2010**, 19, 1197-1206	4.8	26
15	Correcting Arabic OCR Errors Using Improved Topic-Based Language Models. *International Journal of Computer Processing of Languages*, **2009**, 22, 321-340		
14	RSLDI: Restoration of single-sided low-quality document images. *Pattern Recognition*, **2009**, 42, 3355-3364	7.7	38
13	Model selection for the LS-SVM. Application to handwriting recognition. *Pattern Recognition*, **2009**, 42, 3264-3270	7.7	132
12	New Frontiers in Handwriting Recognition. *Pattern Recognition*, **2009**, 42, 3129-3130	7.7	8
11	Handwriting recognition research: Twenty years of achievement and beyond. *Pattern Recognition*, **2009**, 42, 3131-3135	7.7	25
10	Robust NL-Means Filter With Optimal Pixel-Wise Smoothing Parameter for Statistical Image Denoising. *IEEE Transactions on Signal Processing*, **2009**, 57, 1703-1716	4.8	29

9	Semisupervised least squares support vector machine. *IEEE Transactions on Neural Networks*, **2009**, 20, 1858-70		57
8	2DPCA-based techniques in DCT domain for face recognition. *International Journal of Intelligent Systems Technologies and Applications*, **2009**, 7, 243	0.5	2
7	Bayes classification of online arabic characters by Gibbs modeling of class conditional densities. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, **2008**, 30, 1121-31	13.3	31
6	PKCS: a polynomial kernel family with compact support for scale- space image processing. *IEEE Transactions on Image Processing*, **2007**, 16, 2299-308	8.7	11
5	Optimizing resources in model selection for support vector machine. *Pattern Recognition*, **2007**, 40, 953-963	7.7	30
4	Databases for recognition of handwritten Arabic cheques. *Pattern Recognition*, **2003**, 36, 111-121	7.7	88
3	StrCombo: combination of string recognizers. *Pattern Recognition Letters*, **2002**, 23, 381-394	4.7	17
2	A generic method of cleaning and enhancing handwritten data from business forms. *International Journal on Document Analysis and Recognition*, **2001**, 4, 84-96	3.8	17
1	Extraction of bankcheck items by mathematical morphology. *International Journal on Document Analysis and Recognition*, **1999**, 2, 53-66	3.8	14