

# Abdellah Chehri

## List of Publications by Year in descending order

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Version: 2024-02-01

151  
papers

1,612  
citations

471509

17  
h-index

477307

29  
g-index

155  
all docs

155  
docs citations

155  
times ranked

892  
citing authors

#	ARTICLE	IF	CITATIONS
1	UWB-based sensor networks for localization in mining environments. Ad Hoc Networks, 2009, 7, 987-1000.	5.5	159
2	Autonomous vehicles in the sustainable cities, the beginning of a green adventure. Sustainable Cities and Society, 2019, 51, 101751.	10.4	98
3	Security Risk Modeling in Smart Grid Critical Infrastructures in the Era of Big Data and Artificial Intelligence. Sustainability, 2021, 13, 3196.	3.2	50
4	Deep Learning-Based Object Detection and Scene Perception under Bad Weather Conditions. Electronics (Switzerland), 2022, 11, 563.	3.1	46
5	Review of optical and wireless backhaul networks and emerging trends of next generation <scp>5G</scp> and <scp>6G</scp> technologies. Transactions on Emerging Telecommunications Technologies, 2021, 32, e4155.	3.9	39
6	Adapting Gaussian YOLOv3 with transfer learning for overhead view human detection in smart cities and societies. Sustainable Cities and Society, 2021, 70, 102908.	10.4	34
7	Security Monitoring Using Wireless Sensor Networks. , 2007, , .		32
8	Toward <scp>6G</scp>: Understanding network requirements and key performance indicators. Transactions on Emerging Telecommunications Technologies, 2021, 32, e4201.	3.9	31
9	A Framework of Optimizing the Deployment of IoT for Precision Agriculture Industry. Procedia Computer Science, 2020, 176, 2414-2422.	2.0	28
10	Reconfigurable Intelligent Surfaces for 5G and beyond Wireless Communications: A Comprehensive Survey. Energies, 2021, 14, 8219.	3.1	28
11	Design of wireless sensor network for mine safety monitoring. , 2011, , .		25
12	Characterization of the Ultra-Wideband Channel in Confined Environments with Diffracting Rough Surfaces. Wireless Personal Communications, 2012, 62, 859-877.	2.7	24
13	Data Management and Integration of Low Power Consumption Embedded Devices IoT for Transforming Smart Agriculture into Actionable Knowledge. Agriculture (Switzerland), 2022, 12, 329.	3.1	24
14	Support Vector Machines for indoor sensor localization. , 2011, , .		23
15	The Industrial Internet of Things: Examining How the IIoT Will Improve the Predictive Maintenance. Smart Innovation, Systems and Technologies, 2019, , 517-527.	0.6	23
16	Internet of Things â€•integrated IRâ€•UWB technology for healthcare applications. Concurrency Computation Practice and Experience, 2020, 32, e5454.	2.2	23
17	An empirical link-quality analysis for wireless sensor networks. , 2012, , .		22
18	Link-Quality Measurement and Reporting in Wireless Sensor Networks. Sensors, 2013, 13, 3066-3076.	3.8	21

#	ARTICLE	IF	CITATIONS
19	An IoT-enabled smart health care system for screening of COVID-19 with multi layers features fusion and selection. Computing (Vienna/New York), 2023, 105, 743-760.	4.8	21
20	Two-Dimensional Permutation Vectorsâ€™™ (PV) Code for Optical Code Division Multiple Access Systems. Entropy, 2020, 22, 576.	2.2	20
21	Design of efficient techniques for tomato leaf disease detection using genetic algorithm-based and deep neural networks. Plant and Soil, 2022, 479, 251-266.	3.7	20
22	AI-based modeling and data-driven evaluation for smart farming-oriented big data architecture using IoT with energy harvesting capabilities. Sustainable Energy Technologies and Assessments, 2022, 52, 102093.	2.7	19
23	CTHp1-8: Measurements and Modeling of Line-of-Sight UWB Channel in Underground Mines. IEEE Global Telecommunications Conference (GLOBECOM), 2006, , .	0.0	18
24	IoT in Smart Farming Analytics, Big Data Based Architecture. Smart Innovation, Systems and Technologies, 2021, , 269-279.	0.6	18
25	Frequency Domain Analysis of UWB Channel Propagation in Underground Mines. , 2006, , .		17
26	A Blockchain-Based Approach for Optimal and Secure Routing in Wireless Sensor Networks and IoT. , 2019, , .		17
27	Energy-efficient modified DCC-MAC protocol for IoT in e-health applications. Internet of Things (Netherlands), 2021, 14, 100119.	7.7	17
28	Geolocation for UWB Networks in underground mines. , 2006, , .		16
29	Experimental Testing of IEEE801.15.4/ZigBee Sensor Networks in Confined Area. , 2010, , .		16
30	Energy Efficiency Proposal for IoT Call Admission Control in 5G Network. , 2019, , .		16
31	Vision-Based Robotic Arm Control Algorithm Using Deep Reinforcement Learning for Autonomous Objects Grasping. Applied Sciences (Switzerland), 2021, 11, 7917.	2.5	16
32	An Optimized Spectrum Sensing Implementation Based on SVM, KNN and TREE Algorithms. , 2019, , .		15
33	5G NBâ€™IoT: Efficient network call admission control in cellular networks. Concurrency Computation Practice and Experience, 2021, 33, e6047.	2.2	15
34	Two-Path Network with Feedback Connections for Pan-Sharpening in Remote Sensing. Remote Sensing, 2020, 12, 1674.	4.0	15
35	Zigbee-based remote environmental monitoring for smart industrial mining. , 2019, , .		15
36	Application of Ad-hoc sensor networks for localization in underground mines. , 2006, , .		14

#	ARTICLE	IF	CITATIONS
37	On the TOA Estimation for UWB Ranging in Complex Confined Area. , 2007, , .		14
38	Large-Scale Fading and Time Dispersion Parameters of UWB Channel in Underground Mines. International Journal of Antennas and Propagation, 2008, 2008, 1-10.	1.2	14
39	FEMAN: Fuzzy-Based Energy Management System for Green Houses Using Hybrid Grid Solar Power. Journal of Renewable Energy, 2013, 2013, 1-6.	3.6	14
40	Reduction of Complexity Design of SAC OCDMA Systems by Utilizing Diagonal Permutation Shift (DPS) Codes with Single Photodiode (SPD) Detection Technique. Electronics (Switzerland), 2022, 11, 1224.	3.1	14
41	Wireless Body Area Network Based on RFID System for Healthcare Monitoring: Progress and Architectures. , 2019, , .		13
42	Efficient and secure routing protocol based on Blockchain approach for wireless sensor networks. Concurrency Computation Practice and Experience, 2021, 33, e6144.	2.2	13
43	UWB Spatial Fading and Small Scale Characterization in Underground Mines. , 0, , .		12
44	Radio channel characterization through leaky feeder for different frequency bands. , 2010, , .		12
45	New MMSE Downlink Channel Estimation for Sub-6 GHz Non-Line-of-Sight Backhaul. , 2018, , .		12
46	Optimization of Spectrum Utilization Parameters in Cognitive Radio Using Genetic Algorithm. Procedia Computer Science, 2020, 176, 2466-2475.	2.0	12
47	Real-time multiuser scheduling based on end-user requirement using big data analytics. Concurrency Computation Practice and Experience, 2021, 33, e5021.	2.2	12
48	Optimal matching between energy saving and traffic load for mobile multimedia communication. Concurrency Computation Practice and Experience, 2021, 33, e5035.	2.2	12
49	Optical Code Construction of 2D Spectral/Spatial BIBD Codes for SAC-OCDMA Systems. Applied Sciences (Switzerland), 2021, 11, 783.	2.5	12
50	Smart Water Distribution System Based on IoT Networks, a Critical Review. Smart Innovation, Systems and Technologies, 2021, , 293-303.	0.6	12
51	Theory and Practice of Implementing a Successful Enterprise IoT Strategy in the Industry 4.0 Era. Procedia Computer Science, 2021, 192, 4609-4618.	2.0	12
52	Accelerating Power Grid Monitoring with Flying Robots and Artificial Intelligence. IEEE Communications Standards Magazine, 2021, 5, 48-54.	4.9	12
53	A Smart Network Architecture for e-Health Applications. Smart Innovation, Systems and Technologies, 2010, , 157-166.	0.6	11
54	On the Ultra-Reliable and Low-Latency Communications for Tactile Internet in 5G Era. Procedia Computer Science, 2020, 176, 3853-3862.	2.0	11

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55	Performance of Reconfigurable Antenna Fabricated on Flexible and Nonflexible Materials for Band Switching Applications. <i>Energies</i> , 2021, 14, 2553.	3.1	11
56	How Will 5G Transform Industrial IoT: Latency and Reliability Analysis. <i>Smart Innovation, Systems and Technologies</i> , 2021, , 335-345.	0.6	11
57	Bio-Inspired Routing Protocol in VANET Networks- A Case Study. <i>Procedia Computer Science</i> , 2019, 159, 2384-2393.	2.0	10
58	Energy-efficient and self-organizing Internet of Things networks for soil monitoring in smart farming. <i>Computers and Electrical Engineering</i> , 2021, 92, 107142.	4.8	10
59	Survey on localization methods for autonomous vehicles in smart cities. , 2019, , .		10
60	Service-oriented architecture for smart building energy management. , 2013, , .		9
61	Optimization of UHF RFID Five-Slotted Patch Tag Design Using PSO Algorithm for Biomedical Sensing Systems. <i>International Journal of Environmental Research and Public Health</i> , 2020, 17, 8593.	2.6	9
62	An efficient 2D encoding/decoding technique for optical communication system based on permutation vectors theory. <i>Multimedia Systems</i> , 2021, 27, 691-707.	4.7	9
63	Cross-layer link adaptation design for UWB-based sensor networks. <i>Computer Communications</i> , 2009, 32, 1568-1575.	5.1	8
64	Energy Efficiency Adaptation for Multihop Routing in Wireless Sensor Networks. <i>Journal of Computer Networks and Communications</i> , 2012, 2012, 1-8.	1.6	8
65	Routing Protocol in the Industrial Internet of Things for Smart Factory Monitoring. <i>Smart Innovation, Systems and Technologies</i> , 2019, , 505-515.	0.6	8
66	Mining and IoT-based Vehicle Ad-hoc NETWORK: Industry opportunities and innovation. <i>Internet of Things (Netherlands)</i> , 2021, 14, 100117.	7.7	8
67	Transport Systems for Smarter Cities, a Practical Case Applied to Traffic Management in the City of Montreal. <i>Smart Innovation, Systems and Technologies</i> , 2022, , 255-266.	0.6	8
68	Realistic 5.9GHz DSRC Vehicle-to-Vehicle Wireless Communication Protocols for Cooperative Collision Warning in Underground Mining. <i>Smart Innovation, Systems and Technologies</i> , 2020, , 133-141.	0.6	8
69	Autonomous Vehicles in Underground Mines, Where We Are, Where We Are Going?. , 2020, , .		7
70	PHY-MAC MIMO Precoder Design for Sub-6 GHz Backhaul Small Cell. , 2020, , .		7
71	An Efficient Clusterhead Placement for Hybrid Sensor Networks. <i>Lecture Notes in Computer Science</i> , 2010, , 123-134.	1.3	7
72	Communication and Localization Techniques in VANET Network for Intelligent Traffic System in Smart Cities: A Review. <i>Smart Innovation, Systems and Technologies</i> , 2020, , 167-177.	0.6	7

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73	Exploiting multiuser diversity for OFDMA next generation wireless networks. , 2013, , .		6
74	IoT and Deep Learning Solutions for an Automated Crack Detection for the Inspection of Concrete Bridge Structures. Smart Innovation, Systems and Technologies, 2021, , 110-119.	0.6	6
75	Traffic Signs Detection and Recognition System in Snowy Environment Using Deep Learning. Lecture Notes in Networks and Systems, 2021, , 503-513.	0.7	6
76	Localization for Vehicular Ad Hoc Network and Autonomous Vehicles, Are We Done Yet?. , 2020, , 293-317.		6
77	Energy-aware multi-hop transmission for sensor networks based on adaptive modulation. , 2010, , .		5
78	QoS aware green routing protocol for wireless sensor networks. , 2012, , .		5
79	Enhancing Energy Efficiency of Wireless Sensor Network for Mining Industry Applications. Procedia Computer Science, 2020, 176, 261-270.	2.0	5
80	A TextCNN and WGAN-gp based deep learning frame for unpaired text style transfer in multimedia services. Multimedia Systems, 2021, 27, 723-732.	4.7	5
81	5G Assisted Smart Manufacturing and Industrial Automation. Lecture Notes in Networks and Systems, 2021, , 385-393.	0.7	5
82	Project Management of Smart University Development: Models and Tools. Smart Innovation, Systems and Technologies, 2021, , 339-350.	0.6	5
83	A Cognitive Radio Spectrum Sensing Implementation Based on Deep Learning and Real Signals. Lecture Notes in Networks and Systems, 2021, , 930-941.	0.7	5
84	Use of Innovation and Emerging Technologies to Address Covid-19-Like Pandemics Challenges in Education Systems. Smart Innovation, Systems and Technologies, 2021, , 441-450.	0.6	5
85	A Practical Evaluation of ZigBee Sensor Networks for Temperature Measurement. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2010, , 495-506.	0.3	4
86	Link adaptation-based optimization for wireless sensor networks routing protocol. , 2012, , .		4
87	An Energy-Efficient Routing Protocol for wireless sensor networks through nonlinear optimization. , 2012, , .		4
88	In Underground Vehicular Radio Channel Characterization. Procedia Computer Science, 2019, 159, 514-523.	2.0	4
89	Empirical Radio Channel Characterization at 5.9 GHz for Vehicle-to-Infrastructure Communication. , 2019, , .		4
90	Non-Cooperative Spectrum Allocation Based on Game Theory in IoT-Oriented Narrowband PLC Networks. , 2020, , .		4

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91	Design of Folded Dipole with Double U Shaped Slot UHF RFID Tag Using Genetic Algorithm Optimization for Healthcare Sensing Applications. Lecture Notes in Networks and Systems, 2021, , 1003-1014.	0.7	4
92	Indoor Cooperative Positioning Based on Fingerprinting and Support Vector Machines. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2012, , 114-124.	0.3	4
93	Wireless Positioning and Tracking for Internet of Things in Heavy Snow Regions. Smart Innovation, Systems and Technologies, 2021, , 395-404.	0.6	4
94	Throughput-Delay Trade-Off for Slotted Aloha Multiple Access with Capture Effect. Journal of Computer Science, 2009, 5, 630-634.	0.6	4
95	Modified Optical Burst Switching (OBS) Based Edge Node Architecture Using Real-Time Scheduling Techniques. IEEE Access, 2021, 9, 167305-167321.	4.2	4
96	Time delay estimation for UWB non coherent receiver in indoor environment, from theory to practice. Eurasip Journal on Wireless Communications and Networking, 2018, 2018, .	2.4	3
97	Parallel Genetic Algorithm Decoder Scheme Based on DP-LDPC Codes for Industrial IoT Scenarios. Procedia Computer Science, 2020, 176, 3496-3505.	2.0	3
98	Editorial for the Special Issue "Advanced Machine Learning for Time Series Remote Sensing Data Analysis". Remote Sensing, 2020, 12, 2815.	4.0	3
99	Automatic Anode Rod Inspection in Aluminum Smelters using Deep-Learning Techniques: A Case Study. Procedia Computer Science, 2020, 176, 3536-3544.	2.0	3
100	Architecting Intelligent Service Ecosystems: Perspectives, Frameworks, and Practices. Lecture Notes in Business Information Processing, 2021, , 150-164.	1.0	3
101	2D Autonomous Robot Localization Using Fast SLAM 2.0 and YOLO in Long Corridors. Smart Innovation, Systems and Technologies, 2021, , 199-208.	0.6	3
102	Deep Neural Network and Boosting Based Hybrid Quality Ranking for e-Commerce Product Search. Big Data and Cognitive Computing, 2021, 5, 35.	4.7	3
103	Smart Grid for Sustainable Cities: Strategies and Pathways for Energy Efficiency Solutions. Smart Innovation, Systems and Technologies, 2022, , 317-327.	0.6	3
104	On the Performance of 5G Narrow-Band Internet of Things for Industrial Applications. Smart Innovation, Systems and Technologies, 2022, , 275-286.	0.6	3
105	Call Admission Control Optimization in 5G in Downlink Single-Cell MISO System. Procedia Computer Science, 2021, 192, 2502-2511.	2.0	3
106	Performance Analysis of UWB Body Sensor Networks for Medical Applications. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2010, , 471-481.	0.3	3
107	Automatic Classification of Rotating Machinery Defects Using Machine Learning (ML) Algorithms. Smart Innovation, Systems and Technologies, 2021, , 193-203.	0.6	3
108	MAC Protocols for Industrial Delay-Sensitive Applications in Industry 4.0: Exploring Challenges, Protocols, and Requirements. Procedia Computer Science, 2021, 192, 4542-4551.	2.0	3

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109	Hybrid Deep Learning Vision-based Models for Human Object Interaction Detection by Knowledge Distillation. <i>Procedia Computer Science</i> , 2021, 192, 5093-5103.	2.0	3
110	Data Lake Conception for Smart Farming: A Data Migration Strategy for Big Data Analytics. <i>Smart Innovation, Systems and Technologies</i> , 2022, , 191-201.	0.6	3
111	Time-of-arrival estimation for IR-UWB systems based on two step energy detection. , 2008, , .		2
112	Image Enlargement Using Multiple Sensors. <i>Journal of Sensors</i> , 2016, 2016, 1-3.	1.1	2
113	A Low Complexity Turbo Equalizer for Power-Line Communication with Applications to Smart Grid Networks. , 2019, , .		2
114	Low-Cost Localization and Tracking System with Wireless Sensor Networks in Snowy Environments. <i>Smart Innovation, Systems and Technologies</i> , 2019, , 529-543.	0.6	2
115	Block Matching Algorithms for the Estimation of Motion in Image Sequences: Analysis. <i>Procedia Computer Science</i> , 2021, 192, 2980-2989.	2.0	2
116	Reconfigurable Intelligent Surfaces Supported Wireless Communications. <i>Procedia Computer Science</i> , 2021, 192, 2491-2501.	2.0	2
117	Spectrum Management of Power Line Communications Networks for Industrial Applications. <i>Smart Innovation, Systems and Technologies</i> , 2021, , 173-182.	0.6	2
118	Review of Internet of Things and Design of New UHF RFID Folded Dipole with Double U Slot Tag. <i>Smart Innovation, Systems and Technologies</i> , 2021, , 281-291.	0.6	2
119	SMART Technologies as the Innovative Way of Development and the Answer to Challenges of Modern Time. <i>ITM Web of Conferences</i> , 2020, 35, 06010.	0.5	2
120	SVC device optimal location for voltage stability enhancement based on a combined particle swarm optimization-continuation power flow technique. <i>Telkomnika (Telecommunication Computing) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 29</i>		
121	Potential of sixth generation technologies for emerging future wireless networks. <i>Transactions on Emerging Telecommunications Technologies</i> , 2022, 33, .	3.9	2
122	Fast Constant-Time Modular Inversion over Fp Resistant to Simple Power Analysis Attacks for IoT Applications. <i>Sensors</i> , 2022, 22, 2535.	3.8	2
123	A Moroccan News Articles Dataset (MNAD) For Arabic Text Categorization. , 2021, , .		2
124	Eigen-Analysis of UWB Channel on the Basis of Information Theoretic Criteria. , 2007, , .		1
125	A sub-optimal receiver performance study over a multipath UWB channel. , 2013, , .		1
126	Error performance of pulse-based ultra-wideband systems in underground mines. , 2014, , .		1



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127	Entropy-Based Algorithms for Signal Processing. Entropy, 2020, 22, 621.	2.2	1
128	Special issue on video and imaging systems for critical engineering applications [SI 1096]. Multimedia Tools and Applications, 2020, 79, 8327-8335.	3.9	1
129	Special issue on real-time behavioral monitoring in IoT applications using big data analytics. Concurrency Computation Practice and Experience, 2021, 33, e5529.	2.2	1
130	A Framework for 5G Ultra-Reliable Low Latency for Industrial and Mission-Critical Machine-Type Communication. Smart Innovation, Systems and Technologies, 2021, , 99-109.	0.6	1
131	Guest editorial: Special issue on design architecture and applications of smart embedded devices in internet of things. Journal of Systems Architecture, 2021, 115, 102018.	4.3	1
132	Security Analysis Using Deep Learning in IoT and Intelligent Transport System. Smart Innovation, Systems and Technologies, 2021, , 9-19.	0.6	1
133	UHF RFID Spiral-Loaded Dipole Tag Antenna Conception for Healthcare Applications. Procedia Computer Science, 2021, 192, 2531-2539.	2.0	1
134	Hybrid OSA-CSA Model for an Efficient Dynamic Spectrum Access in Cognitive Radio Environments. Smart Innovation, Systems and Technologies, 2021, , 130-139.	0.6	1
135	Color Image Restoration Technique Using Gradient Edge Direction Detection. Smart Innovation, Systems and Technologies, 2010, , 101-109.	0.6	1
136	An Efficient Spectral/Spatial OCDMA System Using 2D BIBD Code Based on Combinatorial Constructions of Galois Field. , 2020, , .		1
137	Performance Analysis of Mobile Network Software Testbed. Smart Innovation, Systems and Technologies, 2021, , 305-319.	0.6	1
138	A Hybrid Automatic Facial Expression Recognition Based on Convolutional Neuronal Networks and Support Vector Machines Techniques. Smart Innovation, Systems and Technologies, 2022, , 27-39.	0.6	1
139	Swarm Robotics: Moving from Concept to Application. Smart Innovation, Systems and Technologies, 2022, , 179-189.	0.6	1
140	A comparison between different FHSS techniques for use in a multiple access secure wireless sensor network. , 2006, , .		0
141	Embedded Systems for Mobile Sensors. Journal of Sensors, 2016, 2016, 1-3.	1.1	0
142	Workshop Messages. , 2019, , .		0
143	Backhaul Networks and TV White Spaces (TVWS) with Implementation Challenges in 5G: A Review. Lecture Notes in Networks and Systems, 2021, , 954-965.	0.7	0
144	Rotating Machinery Condition Monitoring Using Time Series Analysis of Vibration Signal. Smart Innovation, Systems and Technologies, 2021, , 232-242.	0.6	0

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145	Special issue on deep learning for emerging big multimedia super-resolution. Multimedia Systems, 2021, 27, 581-587.	4.7	0
146	Special issue on deep learning for emerging embedded real-time image and video processing systems. Journal of Real-Time Image Processing, 2021, 18, 1167-1171.	3.5	0
147	Special issue on applied computational intelligence. Concurrency Computation Practice and Experience, 0, , e6632.	2.2	0
148	Computing Techniques for Environmental Research and Public Health. International Journal of Environmental Research and Public Health, 2021, 18, 9851.	2.6	0
149	Real-Time Data Processing in Autonomous Vehicles Based on Distributed Architecture: A Case Study. Smart Innovation, Systems and Technologies, 2020, , 143-154.	0.6	0
150	Link-Quality Measurement and Performance of WirelessHART in Industrial Environments. , 2021, , .		0
151	Contention Based Medium Access Control Protocol for Point-To-Multipoint Backhaul Networks in the 3.65 GHz Band. , 2021, , .		0