

# Rached Dhaouadi

## List of Publications by Year in descending order

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72  
papers

1,533  
citations

567281

15  
h-index

345221

36  
g-index

73  
all docs

73  
docs citations

73  
times ranked

1224  
citing authors

#	ARTICLE	IF	CITATIONS
1	Edge-based individualized anomaly detection in large-scale distributed solar farms. <i>ICT Express</i> , 2022, 8, 174-178.	4.8	7
2	Application of Particle Swarm Optimization for the Identification of Two-Mass Electric Drive Systems. , 2022, , .		3
3	Using IoT and smart monitoring devices to optimize the efficiency of large-scale distributed solar farms. <i>Wireless Networks</i> , 2021, 27, 4313-4329.	3.0	23
4	Deep Learning at the Edge for Operation and Maintenance of Large-Scale Solar Farms. <i>Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering</i> , 2021, , 27-44.	0.3	0
5	A characterization study for the properties of dust particles collected on photovoltaic (PV) panels in Sharjah, United Arab Emirates. <i>Renewable Energy</i> , 2021, 171, 133-140.	8.9	49
6	Autonomous Landing of a Quadrotor with Wireless Charging. <i>Advances in Intelligent Systems and Computing</i> , 2021, , 830-846.	0.6	1
7	Parameter Identification of DC Motor Drive Systems using Particle Swarm Optimization. , 2021, , .		7
8	Supercapacitor Characterization Using Universal Adaptive Stabilization and Optimization. <i>IEEE Open Journal of the Industrial Electronics Society</i> , 2020, 1, 166-183.	6.8	13
9	LC Impedance Source Bi-Directional Converter with Reduced Capacitor Voltages. <i>Electronics (Switzerland)</i> , 2020, 9, 1062.	3.1	4
10	An IoT-based remote IV tracing system for analysis of city-wide solar power facilities. <i>Sustainable Cities and Society</i> , 2020, 57, 102041.	10.4	22
11	A Minimal Neural Network Model to Predict Power Loss due to Soiling in Stable Environments. , 2020, , .		2
12	Power Prediction via Module Temperature for Solar Modules Under Soiling Conditions. <i>Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering</i> , 2020, , 85-95.	0.3	3
13	Using Siamese Networks to Detect Shading on the Edge of Solar Farms. , 2020, , .		1
14	Wireless Charging of an Autonomous Drone. , 2020, , .		0
15	Adaptive Identification and Compensation of Nonlinear Friction in a Voice-Coil Linear Servomotor. , 2019, , .		1
16	Using Linear Regression and Back Propagation Neural Networks to Predict Performance of Soiled PV Modules. <i>Procedia Computer Science</i> , 2019, 155, 463-470.	2.0	27
17	Optimal Coil Design for a Quadrotor Wireless Charging System. , 2019, , .		2
18	An MQTT-Based Scalable Architecture for Remote Monitoring and Control of Large-Scale Solar Photovoltaic Systems. <i>Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering</i> , 2019, , 57-67.	0.3	4

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19	Nonlinear dynamic modeling of a V-shaped metal based thermally driven MEMS actuator for RF switches. Journal of Micromechanics and Microengineering, 2018, 28, 054004.	2.6	6
20	ADALINE-Based Friction Identification and Compensation of a Linear Voice-Coil DC Motor. , 2018, , .		1
21	Synergetic Control of a Hybrid Battery-Ultracapacitor Energy Storage System. , 2018, , .		1
22	Friction estimation of a linear voice coil motor using robust state space sinusoidal reference tracking. , 2018, , .		4
23	Modeling and analysis of PV soiling and its effect on the transmittance of solar radiation. , 2018, , .		4
24	Performance Analysis of Regenerative Braking in Permanent Magnet Synchronous Motor Drives. Advances in Science, Technology and Engineering Systems, 2018, 3, 460-466.	0.5	12
25	Dynamic Friction Characterization of a Linear Servo Motor Using an Optimal Sinusoidal Reference Tracking Controller. Journal of Robotics and Mechatronics, 2018, 30, 1014-1018.	1.0	4
26	Macromodeling of thermally driven V-shaped MEMS actuators. Mechatronics, 2017, 46, 193-204.	3.3	14
27	Modeling and analysis of a regenerative braking system with a battery-supercapacitor energy storage. , 2017, , .		14
28	Nonlinear modeling and characterization of a thermally driven MEMS actuator with a folded spring reference beam. , 2017, , .		0
29	Femto-farad capacitive sensor for MEMS thermal actuators. , 2017, , .		0
30	Modeling and characterization of thin film polysilicon in thermally driven MEMS actuators. , 2016, , .		2
31	Hybrid dynamic modeling of V-shaped thermal micro-actuators. , 2016, , .		5
32	Neural Based Autonomous Navigation of Wheeled Mobile Robots. Journal of Automation, Mobile Robotics and Intelligent Systems, 2016, 10, 64-72.	0.4	8
33	Nonlinear reduced order observer design for elastic drive systems using invariant manifolds. , 2015, , .		3
34	Simultaneous identification of the linear and nonlinear characteristics of motor drives using Dynamic Wavelet Networks. , 2015, , .		2
35	Energy management and control of a standalone PV system using ultracapacitors. , 2015, , .		4
36	A neural network based technique for vibration characterization using Gaussian laser beams. Mechatronics, 2015, 25, 44-54.	3.3	8

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37	Robust Control of Elastic Drives Through Immersion and Invariance. IEEE Transactions on Industrial Electronics, 2015, 62, 1572-1580.	7.9	30
38	Robust control of an ultracapacitor-based hybrid energy storage system for electric vehicles. , 2014, , .		9
39	Vibration suppression in elastic drive systems using the immersion and invariance methodology. , 2013, , .		2
40	Vibration characterization using Gaussian laser beam. , 2013, , .		2
41	Nonlinear Friction Estimation in Elastic Drive Systems Using a Dynamic Neural Network-Based Observer. Journal of Advanced Computational Intelligence and Intelligent Informatics, 2013, 17, 637-646.	0.9	12
42	Neural-based navigation of a differential-drive mobile robot. , 2012, , .		15
43	Efficiency Optimization of a DSP-Based Standalone PV System Using Fuzzy Logic and Dual-MPPT Control. IEEE Transactions on Industrial Informatics, 2012, 8, 573-584.	11.3	298
44	Indirect adaptive tracking control of a nonholonomic mobile robot via neural networks. Neurocomputing, 2012, 88, 54-66.	5.9	111
45	Modeling and Analysis of a Wavelet Network-Based Optical Sensor for Vibration Monitoring. IEEE Sensors Journal, 2011, 11, 1657-1668.	4.7	5
46	Single input fuzzy controller (SFLC) based maximum power point tracking. , 2011, , .		5
47	Development of a Modular Mobile Robot Platform: Applications in Motion-Control Education. IEEE Industrial Electronics Magazine, 2011, 5, 35-45.	2.6	15
48	Beam-stabilized optical switch using a voice-coil motor actuator. Journal of the Franklin Institute, 2011, 348, 1-11.	3.4	13
49	Position detection and vibration monitoring system using quad-cell optical beam power distribution. Journal of the Franklin Institute, 2011, 348, 1435-1455.	3.4	5
50	Reactive navigation algorithm for wheeled mobile robots under non-holonomic constraints. , 2011, , .		1
51	A Neural Network Based Adaptive Tracking Controller for Nonholonomic Wheeled Mobile Robots With Unknown Dynamics. , 2010, , .		1
52	Efficiency optimization of a 150W PV system using dual axis tracking and MPPT. , 2010, , .		8
53	Intelligent neural network based controllers for path tracking of wheeled mobile robots: A comparative analysis. , 2010, , .		6
54	Improving electrical engineering education at the American University of Sharjah through continuous assessment. European Journal of Engineering Education, 2009, 34, 15-28.	2.3	7

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55	Adaptive control of a nonlinear dc motor drive using recurrent neural networks. Applied Soft Computing Journal, 2008, 8, 371-382.	7.2	58
56	A fuzzy learning Sliding mode controller for direct field-oriented induction machines. Neurocomputing, 2008, 71, 2693-2701.	5.9	30
57	Design of a novel optical vibrometer using Gaussian beam analysis. , 2008, , .		2
58	A self tuning PID controller using Wavelet Networks. Power Electronics Specialist Conference (PESC), IEEE, 2008, , .	0.0	6
59	Modelling and Analysis of Nonlinear Stiffness, Hysteresis and Friction in Harmonic Drive Gears. International Journal of Modelling and Simulation, 2008, 28, 329-336.	3.3	19
60	A New Adaptive Control Scheme Using Dynamic Neural Networks. Journal of Robotics and Mechatronics, 2008, 20, 171-177.	1.0	3
61	Dynamic Modeling of Nonlinear Systems Using Wavelet Networks. Journal of Robotics and Mechatronics, 2008, 20, 178-187.	1.0	1
62	Discussion on: Adaptive Field-oriented Control of Synchronous Motors with Damping Windings. European Journal of Control, 2008, 14, 196-200.	2.6	0
63	Virtual SCADA Simulation System for Power Substation. , 2007, , .		5
64	Adaptive PID Neuro-Controller for a Nonlinear Servomechanism. , 2007, , .		1
65	Microcontroller-operated anthropomorphic manipulator with haptic feedback. Robotics and Computer-Integrated Manufacturing, 2007, 23, 63-70.	9.9	2
66	Torque Control in Harmonic Drives with Nonlinear Dynamic Friction Compensation. Journal of Robotics and Mechatronics, 2004, 16, 388-396.	1.0	10
67	A new dynamic model of hysteresis in harmonic drives. IEEE Transactions on Industrial Electronics, 2003, 50, 1165-1171.	7.9	96
68	A nonlinear control method for good dynamic performance elastic drives. IEEE Transactions on Industrial Electronics, 1999, 46, 868-870.	7.9	4
69	Analysis and compensation of speed drive systems with torsional loads. IEEE Transactions on Industry Applications, 1994, 30, 760-766.	4.9	54
70	Two-degree-of-freedom robust speed controller for high-performance rolling mill drives. IEEE Transactions on Industry Applications, 1993, 29, 919-926.	4.9	73
71	Design and implementation of an extended Kalman filter for the state estimation of a permanent magnet synchronous motor. IEEE Transactions on Power Electronics, 1991, 6, 491-497.	7.9	311
72	Analysis of current-regulated voltage-source inverters for permanent magnet synchronous motor drives in normal and extended speed ranges. IEEE Transactions on Energy Conversion, 1990, 5, 137-144.	5.2	51