

# Martin Pies

## List of Publications by Year in descending order

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Version: 2024-02-01

46  
papers

210  
citations

1163117

8  
h-index

1199594

12  
g-index

50  
all docs

50  
docs citations

50  
times ranked

122  
citing authors

#	ARTICLE	IF	CITATIONS
1	Measuring System for Longtime Monitoring and Visualization of Temperature and Toxic Gases Concentration. Elektronika Ir Elektrotechnika, 2012, 122, .	0.8	20
2	Radio Telemetry Unit for Online Monitoring System at Mining Dumps. Applied Mechanics and Materials, 2014, 548-549, 736-743.	0.2	16
3	Use of IQRF Technology for Large Monitoring Systems – 8 – This work was supported by the project of the Ministry of Industry and Trade - MPO TIP FR-TI 4/327 – Research into the possibility of a comprehensive revitalization of industrial waste landfills, incl. the use of their potential, develop measuring systems for remote monitoring, creation of guidelines and sample projects for revitalizing and optimizing – and by project SP2015/154. – Development of algorithms and systems for control, measurement and safety app. IFAC-PapersOnLine, 2015, 48, 486-491.	0.9	16
4	Wireless Measurement of Carbon Dioxide by use of IQRF Technology. IFAC-PapersOnLine, 2018, 51, 78-83.	0.9	14
5	Conventional controller design based on Takagi – Sugeno fuzzy models. Journal of Applied Logic, 2015, 13, 148-155.	1.1	11
6	Autonomous Monitoring System for Measurement of Parameters of Heat Collection Technology at Thermal Active Mining Dumps. Elektronika Ir Elektrotechnika, 2013, 19, .	0.8	11
7	Design, Implementation and Data Analysis of an Embedded System for Measuring Environmental Quantities. Sensors, 2020, 20, 2304.	3.8	9
8	Monitoring Environmental Variables Through Intelligent Lamps. Lecture Notes in Electrical Engineering, 2018, , 148-156.	0.4	9
9	Analysis of the Appropriateness of the Use of Peltier Cells as Energy Sources. Sensors, 2016, 16, 760.	3.8	8
10	Using MATLAB and COMSOL Multiphysics for Optimization of the Model of Underground Thermal Processes at Old Mining Dumps. Applied Mechanics and Materials, 0, 548-549, 571-578.	0.2	7
11	Use of the IQRF and Node-RED technology for control and visualization in an IQMESH network. IFAC-PapersOnLine, 2018, 51, 295-300.	0.9	7
12	Monitoring the condition of the protective fence above the railway track. IFAC-PapersOnLine, 2019, 52, 145-150.	0.9	7
13	Using the IQRF Technology for the Internet of Things: Case Studies. Lecture Notes in Electrical Engineering, 2018, , 274-283.	0.4	7
14	Case studies on optimization problems in MATLAB and COMSOL multiphysics by means of the livelink. AIP Conference Proceedings, 2016, , .	0.4	6
15	Simulation of MIT Rule-Based Adaptive Controller of a Power Plant Superheater. Advances in Intelligent and Soft Computing, 2012, , 473-479.	0.2	5
16	Image signal processing, analysis and detection for robotic system. , 2014, , .		5
17	Use of accelerometer sensors to measure the states of retaining steel networks and dynamic barriers. , 2018, , .		5
18	Wireless Measuring System for Monitoring the Condition of Devices Designed to Protect Line Structures. Sensors, 2020, 20, 2512.	3.8	5

#	ARTICLE	IF	CITATIONS
19	Using Methodology for MATLAB Designing the First-Order Chebyshev Analogue and IIR Digital Filters. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 399-405.	0.4	4
20	Wireless measurement of carbon monoxide concentration. , 2014, , .		4
21	Predictive Protective Control for Flexible Energy System. IFAC-PapersOnLine, 2018, 51, 1-6.	0.9	3
22	Computation of Swing-up Signal for Inverted Pendulum Using Dynamic Optimization. Lecture Notes in Computer Science, 2014, , 301-314.	1.3	3
23	TRT System for Heat Pumps. , 2008, , .		2
24	Heat energy collection from thermally active mining dump Hedvika. , 2014, , .		2
25	Design and Implementation of Embedded Systems in Matlab&Simulink Environment. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2009, 42, 73-79.	0.4	1
26	Application of H-infinity Robust Controller on PAC. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 126-131.	0.4	1
27	STD Approach for Simulation, Control and Visualization of Color-sorting Machine. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 276-279.	0.4	1
28	Simulation of power plant superheater by Simulink S-functions. , 2010, , .		1
29	Mixed Sensitivity H- $\infty$ Control for Helicopter Model*. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 104-109.	0.4	1
30	The Temperature Time Responses of the Heat Exchanger Equipped by the Protective Control. IFAC-PapersOnLine, 2016, 49, 487-492.	0.9	1
31	Experience in collecting heat at the Hedvika and Krimich thermally active mining dumps**This work was supported by the project SP2016/162, "Development of algorithms and systems for control, measurement and safety applications" of the Student Grant System, VAB-TU Ostrava.. IFAC-PapersOnLine, 2016, 49, 546-551.	0.9	1
32	The physical model for research of behavior of grouting mixtures. AIP Conference Proceedings, 2016, , .	0.4	1
33	Case studies on design, simulation and visualization of control and measurement applications using REX control system. AIP Conference Proceedings, 2016, , .	0.4	1
34	Monitoring of environmental variables in rooms of the Department of Cybernetics and Biomedical Engineering. , 2018, , .		1
35	Case Studies on The Use of LiveLink for MATLAB for Evaluation and Optimization of The Heat Sources in Experimental Borehole. Sensors, 2020, 20, 1297.	3.8	1
36	Takagi-Sugeno Fuzzy Model in Task of Controllers Design. Advances in Intelligent Systems and Computing, 2013, , 391-400.	0.6	1

#	ARTICLE	IF	CITATIONS
37	Control circuit of the heat exchanger and its verification on real operation data. , 2011, , .		0
38	Modeling heat exchanger by FDM and FEM in C# and Comsol Multiphysics. , 2011, , .		0
39	Dynamic Optimization Case Studies in Matlab&Simulink and Dynopt. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 265-270.	0.4	0
40	Dynamic optimization case studies in DYNOPT tool. AIP Conference Proceedings, 2016, , .	0.4	0
41	Design and Implementation of an IoT Sensor for High Temperatures. , 2021, , .		0
42	Motion detector with IR matrix sensor using IQRF Technology. , 2021, , .		0
43	Design and Implementation of Model Reference Adaptive Controller of a Superheater in Matlab&Simulink Environment. , 2011, , 235-238.		0
44	Mathematical Models for Turbine Simulation of Flexible Energy System. , 2011, , 229-233.		0
45	Control Design of Mixed Sensitivity Problem for Educational Model of Helicopter. Advances in Electrical and Electronic Engineering, 2014, 12, .	0.3	0
46	Use Of REX Control System For The Ball On Spool Model. Journal of Electrical Engineering, 2015, 66, 214-219.	0.7	0