Miroslav Pajic

List of Publications by Citations

79 papers	1,579 citations	22 h-index	37 g-index
87 ext. papers	1,998 ext. citations	3.7 avg, IF	5.18 L-index

#	Paper	IF	Citations
79	Robustness of attack-resilient state estimators **2014**,		114
78	Coding Schemes for Securing Cyber-Physical Systems Against Stealthy Data Injection Attacks. *IEEE Transactions on Control of Network Systems*, **2017**, 4, 106-117	4	101
77	. *IEEE Transactions on Control of Network Systems*, **2017**, 4, 82-92	4	99
76	The Wireless Control Network: A New Approach for Control Over Networks. *IEEE Transactions on Automatic Control*, **2011**, 56, 2305-2318	5.9	99
75	Cyber-Physical Modeling of Implantable Cardiac Medical Devices. *Proceedings of the IEEE*, **2012**, 100, 122-137	14.3	77
74	Design and Implementation of Attack-Resilient Cyberphysical Systems: With a Focus on Attack-Resilient State Estimators. *IEEE Control Systems*, **2017**, 37, 66-81	2.9	68
73	Model-Driven Safety Analysis of Closed-Loop Medical Systems. *IEEE Transactions on Industrial Informatics*, **2012**,	11.9	65
72	Stochastic game approach for replay attack detection **2013**,		64
71	Modeling and Verification of a Dual Chamber Implantable Pacemaker. *Lecture Notes in Computer Science*, **2012**, 188-203	0.9	62
70	Opportunistic Control Over Shared Wireless Channels. *IEEE Transactions on Automatic Control*, **2015** , 60, 3140-3155	5.9	58
69	The wireless control network: Monitoring for malicious behavior **2010**,		45
68	A hybrid stochastic game for secure control of cyber-physical systems. *Automatica*, **2018**, 93, 55-63	5.7	42
67	Attack-resilient state estimation in the presence of noise **2015**,		40
66	Coding sensor outputs for injection attacks detection **2014**,		37
65	From Verification to Implementation: A Model Translation Tool and a Pacemaker Case Study **2012**,		34
64	Sensor attack detection in the presence of transient faults **2015**,		31
63	Attack-Resilient Sensor Fusion for Safety-Critical Cyber-Physical Systems. *Transactions on Embedded Computing Systems*, **2016**, 15, 1-24	1.8	30

62	The Oral Iron Chelator Deferiprone Protects Against Retinal Degeneration Induced through Diverse Mechanisms. *Translational Vision Science and Technology*, **2012**, 1, 2	3.3	26
61	Error recovery in a micro-electrode-dot-array digital microfluidic biochip? **2016**,		26
60	Closed-loop verification of medical devices with model abstraction and refinement. *International Journal on Software Tools for Technology Transfer*, **2014**, 16, 191-213	1.3	24
59	Fuzzy inference mechanism for recognition of contact states in intelligent robotic assembly. *Journal of Intelligent Manufacturing*, **2014**, 25, 571-587	6.7	23
58	Efficient and Adaptive Error Recovery in a Micro-Electrode-Dot-Array Digital Microfluidic Biochip. *IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems*, **2018**, 37, 601-614	2.5	22
57	. *IEEE Transactions on Automatic Control*, **2019**, 64, 4843-4858	5.9	21
56	Security-Aware Scheduling of Embedded Control Tasks. *Transactions on Embedded Computing Systems*, **2017**, 16, 1-21	1.8	20
55	Control Synthesis from Linear Temporal Logic Specifications using Model-Free Reinforcement Learning **2020**,		20
54	Topological Conditions for In-Network Stabilization of Dynamical Systems. *IEEE Journal on Selected Areas in Communications*, **2013**, 31, 794-807	14.2	18
53	Model-Based Closed-Loop Testing of Implantable Pacemakers **2011**,		17
52	Topological conditions for wireless control networks **2011**,		17
51	The Wireless Control Network: Synthesis and robustness **2010**,		16
50	Synthesis of Error-Recovery Protocols for Micro-Electrode-Dot-Array Digital Microfluidic Biochips. *Transactions on Embedded Computing Systems*, **2017**, 16, 1-22	1.8	15
49	Making the internet-of-things a reality **2016**,		14
48	Supervisory Control of Discrete Event Systems in the Presence of Sensor and Actuator Attacks **2019**,		14
47	**2016**,		13
46	Recognition of Planar Segments in Point Cloud Based on Wavelet Transform. *IEEE Transactions on Industrial Informatics*, **2015**, 1-1	11.9	12
45	Network Scheduling for Secure Cyber-Physical Systems **2017**,		12

44	Embedded Virtual Machines for Robust Wireless Control and Actuation **2010**,		12
43	**2017**,		11
42	Design methodologies for securing cyber-physical systems **2015**,		11
41	Automatic verification of linear controller software **2015**,		9
40	Scalable Verification of Linear Controller Software. *Lecture Notes in Computer Science*, **2016**, 662-679	0.9	9
39	Cyber-Physical Manufacturing Systems (CPMS). *Lecture Notes in Mechanical Engineering*, **2017**, 199-214	0.4	8
38	Three challenges in cyber-physical systems **2016**,		8
37	. *IEEE Transactions on Control Systems Technology*, **2020**, 28, 1586-1594	4.8	8
36	Operator Strategy Model Development in UAV Hacking Detection. *IEEE Transactions on Human-Machine Systems*, **2019**, 49, 540-549	4.1	7
35	**2015**,		7
34	Security of Cyber-Physical Systems in the Presence of Transient Sensor Faults. *ACM Transactions on Cyber-Physical Systems*, **2017**, 1, 1-23	2.3	6
33	Cyber Physical Production Systems An IEC 61499 Perspective. *Lecture Notes in Mechanical Engineering*, **2017**, 27-39	0.4	5
32	Model-Based Design of Closed Loop Deep Brain Stimulation Controller using Reinforcement Learning **2020**,		5
31	Embedded Virtual Machines for Robust Wireless Control Systems **2009**,		5
30	Automatic Verification of Finite Precision Implementations of Linear Controllers. *Lecture Notes in Computer Science*, **2017**, 153-169	0.9	5
29	Attack-Resilient Supervisory Control with Intermittently Secure Communication **2019**,		5
28	. *IEEE Transactions on Industrial Informatics*, **2021**, 17, 775-786	11.9	5
27	Human Augmentation of UAV Cyber-Attack Detection. *Lecture Notes in Computer Science*, **2018**, 154-167	0.9	4

26	Security-Aware Synthesis of Human-UAV Protocols **2019**,		3
25	Reliable industrial IoT-based distributed automation **2019**,		3
24	Opportunistic scheduling of control tasks over shared wireless channels **2014**,		3
23	Opportunistic sensor scheduling in wireless control systems **2014**,		3
22	Opportunities and Challenges in Monitoring Cyber-Physical Systems Security. *Lecture Notes in Computer Science*, **2018**, 9-18	0.9	3
21	. *IEEE Transactions on Automatic Control*, **2019**, 64, 238-253	5.9	3
20	An optimal graph-search method for secure state estimation. *Automatica*, **2021**, 123, 109323	5.7	3
19	Transient performance & availability modeling in high volume outpatient clinics **2017**,		2
18	Platform for security-aware design of human-on-the-loop cyber-physical systems **2017**,		2
17	Attack-resilient sensor fusion **2014**,		2
16	Power-aware communication for wireless sensor-actuator systems **2013**,		2
15	Spatio-Temporal Techniques for Anti-Jamming in Embedded Wireless Networks. *Eurasip Journal on Wireless Communications and Networking*, **2010**, 2010,	3.2	2
14	Network synthesis for dynamical system stabilization **2011**,		2
13	Integrating Security in Resource-Constrained Cyber-Physical Systems. *ACM Transactions on Cyber-Physical Systems*, **2020**, 4, 1-27	2.3	2
12	Context-Aware Temporal Logic for Probabilistic Systems. *Lecture Notes in Computer Science*, **2020**, 215-232	0.9	2
11	. *IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems*, **2020**, 39, 3531-3543	2.5	2
10	. *IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems*, **2021**, 1-1	2.5	2
9	**2013**,		1

8	Detection of cyber-attacks in systems with distributed control based on support vector regression. *Telfor Journal*, **2020**, 12, 104-109	0.1	1
7	Security-Aware Synthesis Using Delayed-Action Games. *Lecture Notes in Computer Science*, **2019**, 180-199	0.9	1
6	LCV: A Verification Tool for Linear Controller Software. *Lecture Notes in Computer Science*, **2019**, 213-225	0.9	1
5	Perfect Attackability of Linear Dynamical Systems with Bounded Noise **2020**,		1
4	Automated Identification of Referable Retinal Pathology in Teleophthalmology Setting. *Translational Vision Science and Technology*, **2021**, 10, 30	3.3	1
3	Security Analysis for Distributed IoT-Based Industrial Automation. *IEEE Transactions on Automation Science and Engineering*, **2021**, 1-16	4.9	1
2	Attack-resilient state estimation with intermittent data authentication. *Automatica*, **2021**, 110035	5.7	0
1	Automated Recognition of Retinal Pigment Epithelium Cells on Limited Training Samples Using Neural Networks. *Translational Vision Science and Technology*, **2020**, 9, 31	3.3	