Xenofon Koutsoukos

List of Publications by Year in Descending Order

86 papers	1,222 citations	16 h-index	33 g-index
96 ext. papers	1,563 ext. citations	3.9 avg, IF	4.81 L-index

#	Paper	IF	Citations
86	Moving target defense for the security and resilience of mixed time and event triggered cyber-physical systems. *Journal of Systems Architecture*, **2022**, 125, 102420	5.5	0
85	Resilient distributed vector consensus using centerpoint. *Automatica*, **2022**, 136, 110046	5.7	0
84	Byzantine Resilient Aggregation in Distributed Reinforcement Learning. *Lecture Notes in Networks and Systems*, **2022**, 56-66	0.5	
83	Edge Augmentation With Controllability Constraints in Directed Laplacian Networks **2022**, 6, 1106-1111		0
82	Computation of the Distance-based Bound on Strong Structural Controllability in Networks. *IEEE Transactions on Automatic Control*, **2022**, 1-1	5.9	
81	Assurance monitoring of learning-enabled cyber-physical systems using inductive conformal prediction based on distance learning. *Artificial Intelligence for Engineering Design, Analysis and Manufacturing: AIEDAM*, **2021**, 35, 251-264	1.3	0
80	Fault-Adaptive Autonomy in Systems with Learning-Enabled Components. *Sensors*, **2021**, 21,	3.8	2
79	Adversarial Gaussian Process Regression in Sensor Networks **2021**, 149-159		1
78	Attacking Electricity Markets Through IoT Devices. *Computer*, **2020**, 53, 55-62	1.6	5
77	Security in Mixed Time and Event Triggered Cyber-Physical Systems using Moving Target Defense **2020**,		2
76	URMILA: Dynamically trading-off fog and edge resources for performance and mobility-aware IoT services. *Journal of Systems Architecture*, **2020**, 107, 101710	5.5	14
75	Trusted Confidence Bounds for Learning Enabled Cyber-Physical Systems **2020**,		2
74	Resilient Vector Consensus in Multi-Agent Networks Using Centerpoints **2020**,		2
73	Improving Prediction Confidence in Learning-Enabled Autonomous Systems. *Lecture Notes in Computer Science*, **2020**, 217-224	0.9	1
72	Resilient Distributed Diffusion in Networks With Adversaries. *IEEE Transactions on Signal and Information Processing Over Networks*, **2020**, 6, 1-17	2.8	6
71	. *Computer*, **2020**, 53, 66-76	1.6	5
70	Graph-Theoretic Approach for Increasing Participation in Networks With Assorted Resources. *IEEE Transactions on Network Science and Engineering*, **2020**, 7, 930-946	4.9	

69	Integrating redundancy, diversity, and hardening to improve security of industrial internet of things. *Cyber-Physical Systems*, **2020**, 6, 1-32	1.1	5
68	Safety analysis of integrated adaptive cruise and lane keeping control using multi-modal port-Hamiltonian systems. *Nonlinear Analysis: Hybrid Systems*, **2020**, 35, 100816	4.5	5
67	A game-theoretic approach for power systems defense against dynamic cyber-attacks. *International Journal of Electrical Power and Energy Systems*, **2020**, 115, 105432	5.1	13
66	Data-driven online learning and reachability analysis of stochastic hybrid systems for smart buildings. *Cyber-Physical Systems*, **2019**, 5, 41-64	1.1	4
65	Science of design for societal-scale cyber-physical systems: challenges and opportunities. *Cyber-Physical Systems*, **2019**, 5, 145-172	1.1	2
64	Transportation Networks **2019**, 425-446		0
63	A game-theoretic approach for selecting optimal time-dependent thresholds for anomaly detection. *Autonomous Agents and Multi-Agent Systems*, **2019**, 33, 430-456	2	1
62	Machine learning based novelty detection using modal analysis. *Computer-Aided Civil and Infrastructure Engineering*, **2019**, 34, 1119-1140	8.4	16
61	Model-based design for CPS with learning-enabled components **2019**,		7
60	CPS Design with Learning-Enabled Components **2019**,		3
59	Diversity and Trust to Increase Structural Robustness in Networks **2019**,		2
58	Attacks on Electricity Markets **2019**,		3
57	A model-based design approach for simulation and virtual prototyping of automotive control systems using port-Hamiltonian systems. *Software and Systems Modeling*, **2019**, 18, 1637-1653	1.9	1
56	Improving Network Connectivity and Robustness Using Trusted Nodes With Application to Resilient Consensus. *IEEE Transactions on Control of Network Systems*, **2018**, 5, 2036-2048	4	32
55	Resilient First-Order Consensus and Weakly Stable, Higher Order Synchronization of Continuous-Time Networked Multiagent Systems. *IEEE Transactions on Control of Network Systems*, **2018**, 5, 1219-1231	4	37
54	A game-theoretic approach for integrity assurance in resource-bounded systems. *International Journal of Information Security*, **2018**, 17, 221-242	2.8	3
53	. *Proceedings of the IEEE*, **2018**, 106, 93-112	14.3	38
52	Adversarial Regression for Detecting Attacks in Cyber-Physical Systems **2018**,		12

51	Scheduling Resource-Bounded Monitoring Devices for Event Detection and Isolation in Networks. *IEEE Transactions on Network Science and Engineering*, **2018**, 5, 65-78	4.9	1
50	**2018**,		3
49	Application-Aware Anomaly Detection of Sensor Measurements in Cyber-Physical Systems. *Sensors*, **2018**, 18,	3.8	2
48	Model and Tool Integration Platforms for Cyber-Physical System Design. *Proceedings of the IEEE*, **2018**, 106, 1501-1526	14.3	18
47	Scheduling Battery-Powered Sensor Networks for Minimizing Detection Delays. *IEEE Communications Letters*, **2017**, 21, 789-792	3.8	3
46	Resilient sensor placement for fault localization in water distribution networks **2017**,		2
45	**2017**,		3
44	Sensor placement for fault location identification in water networks: A minimum test cover approach. *Automatica*, **2016**, 72, 166-176	5.7	38
43	A simulation as a service cloud middleware. *Annales Des Telecommunications/Annals of Telecommunications*, **2016**, 71, 93-108	2	20
42	Optimal Thresholds for Anomaly-Based Intrusion Detection in Dynamical Environments. *Lecture Notes in Computer Science*, **2016**, 415-434	0.9	11
41	Computation and Communication Evaluation of an Authentication Mechanism for Time-Triggered Networked Control Systems. *Sensors*, **2016**, 16,	3.8	4
40	Guest Editorial Special Section on Control and Automation From the 2015 International Conference on Cyber-Physical Systems (ICCPS). *IEEE Transactions on Automation Science and Engineering*, **2016**, 13, 448-449	4.9	1
39	Safety Analysis of Automotive Control Systems Using Multi-Modal Port-Hamiltonian Systems **2016**,		7
38	Efficient evaluation of wireless real-time control networks. *Sensors*, **2015**, 15, 4134-53	3.8	9
37	Model-Based Design of Tree WSNs for Decentralized Detection. *Sensors*, **2015**, 15, 20608-47	3.8	1
36	Integrity assurance in resource-bounded systems through stochastic message authentication **2015**,		1
35	Model-based automotive control design using port-Hamiltonian systems **2015**,		3
34	An event-based distributed diagnosis framework using structural model decomposition. *Artificial Intelligence*, **2014**, 210, 1-35	3.6	30

33	A co-simulation framework for design of time-triggered automotive cyber physical systems. *Simulation Modelling Practice and Theory*, **2014**, 43, 16-33	3.9	28
32	Resilient consensus protocol in the presence of trusted nodes **2014**,		19
31	Cross-layer design for decentralized detection in WSNs. *Eurasip Journal on Advances in Signal Processing*, **2014**, 2014,	1.9	1
30	A Method for Estimating Angular Separation in Mobile Wireless Sensor Networks. *Journal of Intelligent and Robotic Systems: Theory and Applications*, **2013**, 71, 273-286	2.9	1
29	. *IEEE Journal on Selected Areas in Communications*, **2013**, 31, 766-781	14.2	294
28	Design of Networked Control Systems Using Passivity. *IEEE Transactions on Control Systems Technology*, **2013**, 21, 649-665	4.8	32
27	Model-Based Control Design and Integration of Cyberphysical Systems: An Adaptive Cruise Control Case Study. *Journal of Control Science and Engineering*, **2013**, 2013, 1-15	1.2	17
26	A case study on the model-based design and integration of automotive cyber-physical systems **2013**,		1
25	Co-simulation framework for design of time-triggered cyber physical systems **2013**,		13
24	Resilient continuous-time consensus in fractional robust networks **2013**,		12
23	Toward a Science of Cyber Physical System Integration. *Proceedings of the IEEE*, **2012**, 100, 29-44	14.3	203
22	Discussion on: Safety Verification for Probabilistic Hybrid Systems *European Journal of Control*, **2012**, 18, 588-590	2.5	1
21	Resilient asymptotic consensus in asynchronous robust networks **2012**,		14
20	A Cross-Layer Design for Decentralized Detection in Tree Sensor Networks **2012**,		1
19	NCSWT: An integrated modeling and simulation tool for networked control systems. *Simulation Modelling Practice and Theory*, **2012**, 27, 90-111	3.9	15
18	A passivity approach for model-based compositional design of networked control systems. *Transactions on Embedded Computing Systems*, **2012**, 11, 1-31	1.8	4
17	Mobile Sensor Navigation Using Rapid RF-Based Angle of Arrival Localization **2011**,		8
16	Transmission Control Policy design for decentralized detection in sensor networks **2011**,		1

15	PaNeCS: A modeling language for passivity-based design of networked control systems **2011**,		1
14	Distributed diagnosis in uncertain environments using Dynamic Bayesian Networks **2010**,		1
13	Detection using intermittent observations for passive wireless sensors **2009**,		3
12	Factoring Dynamic Bayesian Networks based on structural observability **2009**,		4
11	Maximum likelihood detection with intermittent observations **2009**,		3
10	Designing Distributed Diagnosers for Complex Continuous Systems. *IEEE Transactions on Automation Science and Engineering*, **2009**, 6, 277-290	4.9	34
9	Target tracking in heterogeneous sensor networks using audio and video sensor fusion **2008**,		12
8	Aircraft AC generators: Hybrid system modeling and simulation **2008**,		5
7	DEUCON: Decentralized End-to-End Utilization Control for Distributed Real-Time Systems. *IEEE Transactions on Parallel and Distributed Systems*, **2007**, 18, 996-1009	3.7	52
6	On Controllability and Feasibility of Utilization Control in Distributed Real-Time Systems. *Real-Time Systems (ECRTS), Proceedings of the Euromicro Workshop on*, **2007**,		6
5	Fault diagnosis of continuous systems using discrete-event methods **2007**,		6
4	FC-ORB: A robust distributed real-time embedded middleware with end-to-end utilization control. *Journal of Systems and Software*, **2007**, 80, 938-950	3.3	20
3	Optimal Discrete Rate Adaptation for Distributed Real-Time Systems **2007**,		12
2	On discrete event diagnosis methods for continuous systems **2007**,		5
1	Efficient Integration of Web Services in Ambient-aware Sensor Network Applications **2006**,		9