John S Baras

List of Publications by Year in Descending Order

94 papers	555 citations	11 h-index	18 g-index
129 ext. papers	731 ext. citations	3.5 avg, IF	4.33 L-index

#	Paper	IF	Citations
94	Voice Interface Technology Adoption by Patients With Heart Failure: Pilot Comparison Study. *JMIR MHealth and UHealth*, **2021**, 9, e24646	5.5	4
93	A Cross-Layer Optimal Co-Design of Control and Networking in Time-Sensitive Cyber-Physical Systems **2021**, 5, 917-922		3
92	Value of Information in Feedback Control: Quantification. *IEEE Transactions on Automatic Control*, **2021**, 1-1	5.9	1
91	Delay-Sensitive Joint Optimal Control and Resource Management in Multiloop Networked Control Systems. *IEEE Transactions on Control of Network Systems*, **2021**, 8, 1093-1106	4	1
90	Feedback Control over Noisy Channels: Characterization of a General Equilibrium. *IEEE Transactions on Automatic Control*, **2021**, 1-1	5.9	
89	Minimal Feedback Optimal Control of Linear-Quadratic-Gaussian Systems: No Communication is also a Communication. *IFAC-PapersOnLine*, **2020**, 53, 2201-2207	0.7	0
88	An optimization model for multi-appointment scheduling in an outpatient cardiology setting. *Operations Research for Health Care*, **2020**, 26, 100267	1.8	0
87	Joint Satellite Gateway Placement and Routing for Integrated Satellite-Terrestrial Networks **2020**,		4
86	. *IEEE Transactions on Automatic Control*, **2020**, 65, 604-619	5.9	4
85	Trust-Aware Service Chain Embedding **2019**,		7
84	Binary Hypothesis Testing by Two Collaborating Observers: A Fresh Look **2019**,		1
83	Trust is the Cure to Distributed Consensus with Adversaries **2019**,		2
82	Optimal LQG Control Under Delay-Dependent Costly Information **2019**, 3, 102-107		15
81	Inferring Particle Interaction Physical Models and Their Dynamical Properties **2019**,		4
80	Robot Navigation Under MITL Constraints Using Time-Dependent Vector Field Based Control **2019**,		2
79	Convergence Analysis of Classes of Asymmetric Networks of Cucker Smale Type With Deterministic Perturbations. *IEEE Transactions on Control of Network Systems*, **2018**, 5, 1852-1863	4	2
78	Event-triggered Feedback Control for Signal Temporal Logic Tasks **2018**,		1

77	Event-Triggered Controller Synthesis for Dynamical Systems with Temporal Logic Constraints **2018**,		2
76	Authentication of Swipe Fingerprint Scanners. *IEEE Transactions on Information Forensics and Security*, **2017**, 12, 2212-2226	8	6
75	RFID-based smart parking management system. *Cyber-Physical Systems*, **2017**, 3, 22-41	1.1	33
74	Distributed energy-aware mobile sensor coverage: A game theoretic approach **2016**,		1
73	Synchronization and collision avoidance in non-linear flocking networks of autonomous agents **2016**,		2
72	Trust-aware network utility optimization in multihop wireless networks with delay constraints **2016**,		3
71	Timed automata approach for motion planning using metric interval temporal logic **2016**,		20
70	Dynamics of collectives with opinionated agents: The case of scrambling connectivity **2016**,		1
69	Performance-Aware Cross-Layer Design in Wireless Multihop Networks Via a Weighted Backpressure Approach. *IEEE/ACM Transactions on Networking*, **2016**, 24, 245-258	3.8	11
68	Attitude synchronization of multiple rigid bodies in SE(3) over proximity networks **2016**,		1
67	Time varying control set design for UAV collision avoidance using reachable tubes **2016**,		7
66	Exploiting diversity of usage to enhance user equipment energy efficiency in LTE networks. *Telecommunication Systems*, **2015**, 59, 5-23	2.3	1
65	Modeling the Role of the Glymphatic Pathway and Cerebral Blood Vessel Properties in Alzheimer's Disease Pathogenesis. *PLoS ONE*, **2015**, 10, e0139574	3.7	56
64	Reachable set approach to collision avoidance for UAVs **2015**,		11
63	A simple proof of the continuous time linear consensus problem with applications in non-linear flocking networks **2015**,		9
62	Pose synchronization of rigid body networks with switching topologies **2015**,		1
61	Event based control of stochastic linear systems **2015**,		5
60	Event based control for control affine nonlinear systems: A Lyapunov function based approach **2015**,		4

59	Motion planning in dynamic environments with bounded time temporal logic specifications **2015**,	3
58	Trust-aware optimal crowdsourcing with budget constraint **2015**,	5
57	Distributed solution of the Economic Dispatch Problem in smart grid power systems framework with delays **2015**,	3
56	A fresh look at network science: Interdependent multigraphs models inspired from statistical physics **2014**,	2
55	Utility-based almost blank subframe optimization in heterogeneous cellular networks **2014**,	7
54	Load balancing with almost blank subframe control in heterogeneous cellular networks **2014**,	2
53	Social network ad allocation via hyperbolic embedding **2014**,	4
52	HybridSim: A Modeling and Co-simulation Toolchain for Cyber-physical Systems **2013**,	17
51	A distributed learning algorithm with bit-valued communications for multi-agent welfare optimization **2013**,	8
50	ON THE DYNAMICS OF A SIMPLE RATIONAL PLANAR MAP. *International Journal of Bifurcation and Chaos in Applied Sciences and Engineering*, **2013**, 23, 1330021	2	2
49	Coordinated scheduling and power control for downlink cross-tier interference mitigation in heterogeneous cellular networks **2013**,	3
48	Convergence guarantees for a decentralized algorithm achieving pareto optimality **2013**,	9
47	A coalitional game based approach for multi-metric optimal routing in wireless networks **2013**,	3
46	Integrated Modeling and Simulation Framework for Wireless Sensor Networks **2012**,	6
45	Reachability analysis for linear discrete time set-dynamics driven by random convex compact sets **2012**,	1
44	A distributed opportunistic scheduling protocol for multi-channel wireless ad-hoc networks **2012**,	2
43	Minimizing aggregation latency under the physical interference model in Wireless Sensor Networks **2012**,	7
42	Sequential Anomaly Detection in Wireless Sensor Networks and Effects of Long-Range Dependent Data. *Sequential Analysis*, **2012**, 31, 458-480	0.7	1

41	A graph theoretic mathematical model for Alzheimer's disease: Using a systems biology approach **2012**,	1
40	Social networks over wireless networks **2012**,	3
39	Trust-assisted anomaly detection and localization in wireless sensor networks **2011**,	5
38	A Robust Collaborative Filtering Algorithm Using Ordered Logistic Regression **2011**,	2
37	Performance Analysis of Time-Critical Peer-to-Peer Communications in IEEE 802.15.4 Networks **2011**,	1
36	Motif-based communication network formation for task specific collaboration in complex environments **2011**,	4
35	Exploiting Trust Relations for Nash Equilibrium Efficiency in Ad Hoc Networks **2011**,	2
34	Robust State Estimation under False Data Injection in Distributed Sensor Networks **2010**,	16
33	Distributed Collaborative Controlled autonomous vehicle systems over wireless networks **2010**,	3
32	Opportunistic communications for networked controlled systems of autonomous vehicles **2010**,	2
31	Performance comparison of two sequential change detection algorithms on detection of in-band wormholes **2009**,	2
30	Dynamic self-organization and clustering in distributed networked systems for performance improvement **2009**,	3
29	Achieving symmetric Pareto Nash equilibria using biased replicator dynamics **2009**,	1
28	Efficient and robust communication topologies for distributed decision making in networked systems **2009**,	18
27	Semiring Pruning for Information Dissemination in Mobile Ad Hoc Networks **2009**,	2
26	Consensus problems with directed Markovian communication patterns **2009**,	18
25	Evolutionary dynamics of collaborative environments with heterogeneous agents **2009**,	2
24	Coalition formation through learning in autonomic networks **2009**,	5

23	Component based modeling for cross-layer analysis of 802.11 MAC and OLSR routing protocols in ad-hoc networks **2009**,	3
22	Almost sure convergence to consensus in Markovian random graphs **2008**,	22
21	Clustering Characteristics of Millimeter Wave Indoor Channels **2008**,	4
20	Constrained coalitional games and networks of autonomous agents **2008**,	11
19	Effects of topology in networked systems: Stochastic methods and small worlds **2008**,	4
18	Trust Credential Distribution in Autonomic Networks **2008**,	6
17	Broadcast Scheduling for Time-Constrained Information Delivery **2007**,	4
16	Fundamental Tradeoffs and Constrained Coalitional Games in Autonomic Wireless Networks **2007**,	10
15	Trust Document Distribution in MANETs **2007**,	3
14	Stabilization Using Multiple Sensors over Analog Erasure Channels **2007**,	1
13	Level-triggered control of a scalar linear system **2007**,	8
12	Efficient Sampling for Keeping Track of an Ornstein-Uhlenbeck Process **2006**,	1
11	Multiple Sampling for Estimation on a Finite Horizon **2006**,	37
10	Gibbs Sampler Based Control of Autonomous Vehicle Swarms in the Presence of Sensor Errors **2006**,	3
9	Distributed Control of Autonomous Swarms by Using Parallel Simulated Annealing Algorithm **2006**,	1
8	A Robust, Distributed TGDH-based Scheme for Secure Group Communications in MANET **2006**,	8
7	Enhancing Benign User Cooperation in the Presence of Malicious Adversaries in Ad Hoc Networks **2006**,	2
6	Derivation of Fuzzy Rules for Model-Free Tuning of PID Controllers. *Journal of Intelligent and Fuzzy Systems*, **1995**, 3, 59-69	1.6	2

List of Publications