John S Baras

List of Publications by Citations

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	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
93	Multiple Sampling for Estimation on a Finite Horizon **2006**,		37
92	RFID-based smart parking management system. *Cyber-Physical Systems*, **2017**, 3, 22-41	1.1	33
91	Almost sure convergence to consensus in Markovian random graphs **2008**,		22
90	Timed automata approach for motion planning using metric interval temporal logic **2016**,		20
89	Efficient and robust communication topologies for distributed decision making in networked systems **2009**,		18
88	Consensus problems with directed Markovian communication patterns **2009**,		18
87	HybridSim: A Modeling and Co-simulation Toolchain for Cyber-physical Systems **2013**,		17
86	Robust State Estimation under False Data Injection in Distributed Sensor Networks **2010**,		16
85	Optimal LQG Control Under Delay-Dependent Costly Information **2019**, 3, 102-107		15
84	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
83	Reachable set approach to collision avoidance for UAVs **2015**,		11
82	Constrained coalitional games and networks of autonomous agents **2008**,		11
81	Fundamental Tradeoffs and Constrained Coalitional Games in Autonomic Wireless Networks **2007**,		10
80	A simple proof of the continuous time linear consensus problem with applications in non-linear flocking networks **2015**,		9
79	Convergence guarantees for a decentralized algorithm achieving pareto optimality **2013**,		9
78	A distributed learning algorithm with bit-valued communications for multi-agent welfare optimization **2013**,		8

77	Level-triggered control of a scalar linear system **2007**,		8
76	A Robust, Distributed TGDH-based Scheme for Secure Group Communications in MANET **2006**,		8
75	Trust-Aware Service Chain Embedding **2019**,		7
74	Utility-based almost blank subframe optimization in heterogeneous cellular networks **2014**,		7
73	Minimizing aggregation latency under the physical interference model in Wireless Sensor Networks **2012**,		7
72	Time varying control set design for UAV collision avoidance using reachable tubes **2016**,		7
71	Authentication of Swipe Fingerprint Scanners. *IEEE Transactions on Information Forensics and Security*, **2017**, 12, 2212-2226	8	6
70	Integrated Modeling and Simulation Framework for Wireless Sensor Networks **2012**,		6
69	Trust Credential Distribution in Autonomic Networks **2008**,		6
68	Event based control of stochastic linear systems **2015**,		5
67	Trust-aware optimal crowdsourcing with budget constraint **2015**,		5
66	Trust-assisted anomaly detection and localization in wireless sensor networks **2011**,		5
65	Coalition formation through learning in autonomic networks **2009**,		5
64	Event based control for control affine nonlinear systems: A Lyapunov function based approach **2015**,		4
63	Social network ad allocation via hyperbolic embedding **2014**,		4
62	Motif-based communication network formation for task specific collaboration in complex environments **2011**,		4
61	Clustering Characteristics of Millimeter Wave Indoor Channels **2008**,		4
60	Effects of topology in networked systems: Stochastic methods and small worlds **2008**,		4

59	Broadcast Scheduling for Time-Constrained Information Delivery **2007**,		4
58	Group invariance methods in nonlinear filtering of diffusion processes **1980**,		4
57	Dynamic observers as asymptotic limits of recursive filters **1982**,		4
56	Joint Satellite Gateway Placement and Routing for Integrated Satellite-Terrestrial Networks **2020**,		4
55	Voice Interface Technology Adoption by Patients With Heart Failure: Pilot Comparison Study. *JMIR MHealth and UHealth*, **2021**, 9, e24646	5.5	4
54	Inferring Particle Interaction Physical Models and Their Dynamical Properties **2019**,		4
53	. *IEEE Transactions on Automatic Control*, **2020**, 65, 604-619	5.9	4
52	Trust-aware network utility optimization in multihop wireless networks with delay constraints **2016** ,		3
51	Motion planning in dynamic environments with bounded time temporal logic specifications **2015**,		3
50	Distributed solution of the Economic Dispatch Problem in smart grid power systems framework with delays **2015**,		3
49	Coordinated scheduling and power control for downlink cross-tier interference mitigation in heterogeneous cellular networks **2013**,		3
48	A coalitional game based approach for multi-metric optimal routing in wireless networks **2013**,		3
47	Distributed Collaborative Controlled autonomous vehicle systems over wireless networks **2010**,		3
46	Dynamic self-organization and clustering in distributed networked systems for performance improvement **2009**,		3
45	Social networks over wireless networks **2012**,		3
44	Component based modeling for cross-layer analysis of 802.11 MAC and OLSR routing protocols in ad-hoc networks **2009**,		3
43	Gibbs Sampler Based Control of Autonomous Vehicle Swarms in the Presence of Sensor Errors **2006**,		3
42	Trust Document Distribution in MANETs **2007**,		3

41	Distributed Asynchonous detection: General models **1987**,		3
40	A Cross-Layer Optimal Co-Design of Control and Networking in Time-Sensitive Cyber-Physical Systems **2021**, 5, 917-922		3
39	Trust is the Cure to Distributed Consensus with Adversaries **2019**,		2
38	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
37	Synchronization and collision avoidance in non-linear flocking networks of autonomous agents **2016**,		2
36	A fresh look at network science: Interdependent multigraphs models inspired from statistical physics **2014**,		2
35	Load balancing with almost blank subframe control in heterogeneous cellular networks **2014**,		2
34	A distributed opportunistic scheduling protocol for multi-channel wireless ad-hoc networks **2012**,		2
33	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
32	A Robust Collaborative Filtering Algorithm Using Ordered Logistic Regression **2011**,		2
31	Performance comparison of two sequential change detection algorithms on detection of in-band wormholes **2009**,		2
30	Semiring Pruning for Information Dissemination in Mobile Ad Hoc Networks **2009**,		2
29	Exploiting Trust Relations for Nash Equilibrium Efficiency in Ad Hoc Networks **2011**,		2
28	Evolutionary dynamics of collaborative environments with heterogeneous agents **2009**,		2
27	Opportunistic communications for networked controlled systems of autonomous vehicles **2010**,		2
26	Enhancing Benign User Cooperation in the Presence of Malicious Adversaries in Ad Hoc Networks **2006**,		2
25	Derivation of Fuzzy Rules for Model-Free Tuning of PID Controllers. *Journal of Intelligent and Fuzzy Systems*, **1995**, 3, 59-69	1.6	2
24	Nonclassical filtering problems in quantum electronics **1975**,		2

23	Robot Navigation Under MITL Constraints Using Time-Dependent Vector Field Based Control **2019**,		2
22	Event-Triggered Controller Synthesis for Dynamical Systems with Temporal Logic Constraints **2018**,		2
21	Binary Hypothesis Testing by Two Collaborating Observers: A Fresh Look **2019**,		1
20	Exploiting diversity of usage to enhance user equipment energy efficiency in LTE networks. *Telecommunication Systems*, **2015**, 59, 5-23	2.3	1
19	Distributed energy-aware mobile sensor coverage: A game theoretic approach **2016**,		1
18	Dynamics of collectives with opinionated agents: The case of scrambling connectivity **2016**,		1
17	Pose synchronization of rigid body networks with switching topologies **2015**,		1
16	Reachability analysis for linear discrete time set-dynamics driven by random convex compact sets **2012**,		1
15	Performance Analysis of Time-Critical Peer-to-Peer Communications in IEEE 802.15.4 Networks **2011**,		1
14	Achieving symmetric Pareto Nash equilibria using biased replicator dynamics **2009**,		1
13	Sequential Anomaly Detection in Wireless Sensor Networks and Effects of Long-Range Dependent Data. *Sequential Analysis*, **2012**, 31, 458-480	0.7	1
12	A graph theoretic mathematical model for Alzheimer's disease: Using a systems biology approach **2012**,		1
11	Efficient Sampling for Keeping Track of an Ornstein-Uhlenbeck Process **2006**,		1
10	Distributed Control of Autonomous Swarms by Using Parallel Simulated Annealing Algorithm **2006**,		1
9	Stabilization Using Multiple Sensors over Analog Erasure Channels **2007**,		1
8	Real-time sequential detection for diffusion signals **1987**,		1
7	Attitude synchronization of multiple rigid bodies in SE(3) over proximity networks **2016**,		1
6	Value of Information in Feedback Control: Quantification. *IEEE Transactions on Automatic Control*, **2021**, 1-1	5.9	1

LIST OF PUBLICATIONS

5	Event-triggered Feedback Control for Signal Temporal Logic Tasks **2018**,		1
4	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
3	Minimal Feedback Optimal Control of Linear-Quadratic-Gaussian Systems: No Communication is also a Communication. *IFAC-PapersOnLine*, **2020**, 53, 2201-2207	0.7	0
2	An optimization model for multi-appointment scheduling in an outpatient cardiology setting. *Operations Research for Health Care*, **2020**, 26, 100267	1.8	0
1	Feedback Control over Noisy Channels: Characterization of a General Equilibrium. *IEEE Transactions on Automatic Control*, **2021**, 1-1	5.9	