

# Panagiotis Antsaklis

## List of Publications by Year in descending order

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167  
papers

7,565  
citations

201674

27  
h-index

60623

81  
g-index

170  
all docs

170  
docs citations

170  
times ranked

4465  
citing authors

#	ARTICLE	IF	CITATIONS
1	Stability and Stabilization. Advanced Textbooks in Control and Signal Processing, 2022, , 157-226.	1.0	0
2	Prenatal diagnosis of aberrant right subclavian artery: a literature review. Journal of Maternal-Fetal and Neonatal Medicine, 2022, 35, 8856-8862.	1.5	3
3	Myomectomy during pregnancy; diagnostical dilemmas: two case reports and a systematic review of the literature. Journal of Obstetrics and Gynaecology, 2022, 42, 757-765.	0.9	3
4	Healthcare workers' attitudes about vaccination of pregnant women and those wishing to become pregnant. Journal of Perinatal Medicine, 2022, 50, 363-366.	1.4	5
5	Evolution of Assessment of Fetal Brain Function. Donald School Journal of Ultrasound in Obstetrics and Gynecology, 2022, 16, 66-78.	0.3	0
6	Recent Advances in the Study of Fetal Brain Structure and Function. , 2022, 1, 81-93.		1
7	Distributed Synthesis of Local Controllers for Networked Systems With Arbitrary Interconnection Topologies. IEEE Transactions on Automatic Control, 2021, 66, 683-698.	5.7	21
8	Evaluation of the efficacy of cervical pessary combined with vaginal progesterone in women with a short cervix and additional risk factors for preterm delivery. Journal of Maternal-Fetal and Neonatal Medicine, 2021, 34, 1277-1283.	1.5	2
9	Passivity and passivity indices of nonlinear systems under operational limitations using approximations. International Journal of Control, 2021, 94, 1114-1124.	1.9	8
10	Assessment of Fetal Neurobehavior in Special Cases. Donald School Journal of Ultrasound in Obstetrics and Gynecology, 2021, 15, 195-202.	0.3	0
11	Passivity, Dissipativity, and Passivity Indices. , 2021, , 1680-1684.		0
12	Dissipativity-Based Verification for Autonomous Systems in Adversarial Environments. Studies in Systems, Decision and Control, 2021, , 273-291.	1.0	0
13	Four-dimensional features of fetal brain. , 2021, , 165-171.		0
14	Pharyngeal sampling for PCR-testing in the investigation of SARS-COV-2 vertical transmission in pregnancy. European Journal of Obstetrics, Gynecology and Reproductive Biology, 2021, 260, 18-21.	1.1	5
15	Covid-19 and pregnancy: the experience of a tertiary maternity hospital. Journal of Perinatal Medicine, 2021, 49, 686-690.	1.4	3
16	Maternal and perinatal outcomes in high compared to low risk pregnancies complicated by severe acute respiratory syndrome coronavirus 2 infection (phase 2): the World Association of Perinatal Medicine working group on coronavirus disease 2019. American Journal of Obstetrics & Gynecology MFM, 2021, 3, 100329.	2.6	32
17	Sonographic Evaluation of the Mechanism of Active Labor (SonoLabor Study): observational study protocol regarding the implementation of the sonopartogram. BMJ Open, 2021, 11, e047188.	1.9	2
18	Recent Results and Future Challenges in the Assessment of Fetal Brain Function. Donald School Journal of Ultrasound in Obstetrics and Gynecology, 2021, 15, 10-37.	0.3	1

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19	Passivity and Passivity Indices for Switched and Cyber-physical Systems. , 2021, , 1674-1680.		0
20	Effectiveness of maternal vaccination with quadrivalent inactivated influenza vaccine in pregnant women and their infants in 2019-2020. Expert Review of Vaccines, 2021, , 1-10.	4.4	4
21	Learning-Based Event-Triggered Control for Synchronization of Passive Multiagent Systems Under Attack. IEEE Transactions on Automatic Control, 2020, 65, 4170-4185.	5.7	11
22	Analysis of Two-Dimensional Feedback Systems Over Networks Using Dissipativity. IEEE Transactions on Automatic Control, 2020, 65, 3241-3255.	5.7	7
23	Feedback Passivation of Linear Systems With Fixed-Structure Controllers. , 2020, 4, 498-503.		3
24	Effect of dietary myo-inositol supplementation on the insulin resistance and the prevention of gestational diabetes mellitus: study protocol for a randomized controlled trial. Trials, 2020, 21, 633.	1.6	10
25	Network-based protein structural classification. Royal Society Open Science, 2020, 7, 191461.	2.4	9
26	Vaginal Delivery at Term in a Woman with a Spontaneous Heterotopic Pregnancy Treated with Laparoscopic Salpingectomy. Case Reports in Obstetrics and Gynecology, 2020, 2020, 1-5.	0.3	4
27	Placental Mesenchymal Dysplasia: Ultrasound Characteristics and Diagnostic Pitfalls. Ultrasound International Open, 2020, 06, E2-E3.	0.6	3
28	Mixed Voltage Angle and Frequency Droop Control for Transient Stability of Interconnected Microgrids with Loss of PMU Measurements. , 2020, , .		5
29	Risk factors associated with adverse fetal outcomes in pregnancies affected by Coronavirus disease 2019 (COVID-19): a secondary analysis of the WAPM study on COVID-19. Journal of Perinatal Medicine, 2020, 48, 950-958.	1.4	107
30	Passivity and Passivity Indices for Switched and Cyber-Physical Systems. , 2020, , 1-7.		2
31	Pregnancy in patients with hemoglobinopathies: 30-year results of a Greek Thalassemia and Sickle Cell Department. Journal of Perinatal Medicine, 2020, 48, 477-482.	1.4	0
32	Passivity, Dissipativity and Passivity Indices. , 2020, , 1-5.		1
33	Passivity-Based Iterative Learning Control for Cycling Induced by Functional Electrical Stimulation With Electric Motor Assistance. IEEE Transactions on Control Systems Technology, 2019, 27, 2287-2294.	5.2	22
34	A QSR-Dissipativity Based Design for Event-Triggered Networked Systems. IEEE Transactions on Automatic Control, 2019, 64, 2590-2597.	5.7	16
35	Routine immunizations during pregnancy, doctorsâ€™ compliance and patient hesitancy: A two stage study on vaccination uptake. European Journal of Obstetrics, Gynecology and Reproductive Biology, 2019, 243, 36-40.	1.1	17
36	Multi-center results on the clinical use of KANET. Journal of Perinatal Medicine, 2019, 47, 897-909.	1.4	9

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37	Recent Advances in Analysis and Design of Cyber-physical Systems using Passivity Indices. , 2019, , .		8
38	Immunizations during pregnancy: How, when and why. European Journal of Obstetrics, Gynecology and Reproductive Biology, 2019, 240, 29-35.	1.1	11
39	Sequential Synthesis of Distributed Controllers for Cascade Interconnected Systems. , 2019, , .		10
40	Prenatal Diagnosis of Adrenal Neuroblastoma – Differential Diagnosis of Suprarenal Masses in the Third Trimester of Pregnancy. Ultrasound International Open, 2019, 05, E93-E95.	0.6	4
41	Association of Low Maternal Pregnancy-associated Plasma Protein A with Adverse Perinatal Outcome. Cureus, 2019, 11, e4912.	0.5	9
42	4D in Functional Studies of the Fetus. Donald School Journal of Ultrasound in Obstetrics and Gynecology, 2019, 13, 23-33.	0.3	1
43	Reply to: Cervical pessary combined with vaginal progesterone for the prevention of spontaneous preterm birth: is evidence sufficient?. Journal of Perinatal Medicine, 2018, 46, 693-694.	1.4	0
44	Control and Machine Intelligence for System Autonomy. Journal of Intelligent and Robotic Systems: Theory and Applications, 2018, 91, 23-34.	3.4	22
45	Passivity-Based Design for Event-Triggered Networked Control Systems. IEEE Transactions on Automatic Control, 2018, 63, 2755-2770.	5.7	53
46	Control Design Using Passivation for Stability and Performance. IEEE Transactions on Automatic Control, 2018, 63, 2987-2993.	5.7	26
47	Safety and efficacy of the cervical pessary combined with vaginal progesterone for the prevention of spontaneous preterm birth. Journal of Perinatal Medicine, 2018, 46, 531-537.	1.4	8
48	Assessment of Uterocervical Angle Width as a Predictive Factor of Preterm Birth: A Systematic Review of the Literature. BioMed Research International, 2018, 2018, 1-7.	1.9	20
49	3D vocal power Doppler sonography for the estimation of tumor volume and vascularization in stage IB1 cervical cancer. Archives of Gynecology and Obstetrics, 2018, 298, 617-622.	1.7	3
50	Passivity and Dissipativity Analysis of a System and Its Approximation. IEEE Transactions on Automatic Control, 2017, 62, 620-635.	5.7	51
51	On Passivity Analysis and Passivation of Event-Triggered Feedback Systems Using Passivity Indices. IEEE Transactions on Automatic Control, 2017, 62, 1397-1402.	5.7	25
52	Feedback passivation of nonlinear switched systems using linear approximations. , 2017, , .		10
53	Multicentric studies of the fetal neurobehavior by KANET test. Journal of Perinatal Medicine, 2017, 45, 717-727.	1.4	31
54	4D assessment of fetal brain function in diabetic patients. Journal of Perinatal Medicine, 2017, 45, 711-715.	1.4	20

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55	A resilient design for cyber physical systems under attack. , 2017, , .		14
56	Networked State Estimation Over a Shared Communication Medium. IEEE Transactions on Automatic Control, 2017, 62, 1729-1741.	5.7	41
57	Dissipativity of finite and hybrid automata: An overview. , 2017, , .		4
58	A passivity-based self-triggered strategy for cyber physical systems under denial-of-service attack. , 2017, , .		3
59	Encoding Multi-Resolution Brain Networks Using Unsupervised Deep Learning. , 2017, , .		0
60	Common Adverse Effects of Anti-TNF Agents on Gestation. Obstetrics and Gynecology International, 2016, 2016, 1-6.	1.3	1
61	A passivation method for the design of switched controllers. , 2016, , .		5
62	A QSR-dissipativity and passivity based analysis of event-triggered networked control systems. , 2016, , .		11
63	Stabilizing nonlinear model predictive control scheme based on passivity and dissipativity. , 2016, , .		4
64	Dissipativity of hybrid systems: Feedback interconnections and networks. , 2016, , .		8
65	Passivation and performance optimization using an extremum seeking co-simulation framework with application to Adaptive Cruise Control systems. , 2016, , .		5
66	Local passivity analysis of nonlinear systems: A sum-of-squares optimization approach. , 2016, , .		10
67	A notion of dissipativity for discrete event systems. , 2016, , .		1
68	Learning-based formal synthesis of cooperative multi-agent systems with an application to robotic coordination. , 2016, , .		10
69	Large-Scale Dissipative and Passive Control Systems and the Role of Star and Cyclic Symmetries. IEEE Transactions on Automatic Control, 2016, 61, 3676-3680.	5.7	19
70	Fetal loss following second trimester amniocentesis. Who is at greater risk? How to counsel pregnant women?. Journal of Maternal-Fetal and Neonatal Medicine, 2016, 29, 590-595.	1.5	16
71	On Feedback Passivity of Discrete-Time Nonlinear Networked Control Systems With Packet Drops. IEEE Transactions on Automatic Control, 2015, 60, 2434-2439.	5.7	15
72	The quest for autonomy. Are we there yet? Are CPS a way to build autonomous systems?. , 2015, , .		0

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73	Autonomy and machine intelligence in complex systems: A tutorial. , 2015, , .		29
74	Risk-Sensitive Control Under Markov Modulated Denial-of-Service (DoS) Attack Strategies. IEEE Transactions on Automatic Control, 2015, 60, 3299-3304.	5.7	189
75	On the Problem of Minimum Asymptotic Exit Rate for Stochastically Perturbed Multi-Channel Dynamical Systems. IEEE Transactions on Automatic Control, 2015, 60, 3391-3395.	5.7	1
76	On guaranteeing passivity and performance with a human controller. , 2015, , .		16
77	Optimal control of hybrid switched systems: A brief survey. Discrete Event Dynamic Systems: Theory and Applications, 2015, 25, 345-364.	1.5	144
78	On noncooperative $n$ -player principal eigenvalue games. Journal of Dynamics and Games, 2015, 2, 51-63.	1.0	0
79	On the reliable decentralised stabilisation of $n$ -MIMO systems. International Journal of Control, 2014, 87, 1565-1572.	1.9	3
80	Passivity analysis and passivation of feedback systems using passivity indices. , 2014, , .		32
81	On Passivity of a Class of Discrete-Time Switched Nonlinear Systems. IEEE Transactions on Automatic Control, 2014, 59, 692-702.	5.7	48
82	Output Synchronization of Networked Passive Systems With Event-Driven Communication. IEEE Transactions on Automatic Control, 2014, 59, 750-756.	5.7	86
83	SOS methods for demonstrating dissipativity for switched systems. , 2014, , .		10
84	On relationships among passivity, positive realness, and dissipativity in linear systems. Automatica, 2014, 50, 1003-1016.	5.0	120
85	Passivity Analysis and Passivation of Interconnected Event-Triggered Feedback Systems Using Passivity Indices. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 11177-11182.	0.4	3
86	Output feedback stabilization of discrete time networked systems with external disturbance. , 2014, , .		1
87	Event-triggered output feedback stabilization of networked systems with external disturbance. , 2014, , .		12
88	Characterization of feedback Nash equilibria for multi-channel systems via a set of non-fragile stabilizing state-feedback solutions and dissipativity inequalities. Mathematics of Control, Signals, and Systems, 2013, 25, 311-326.	2.3	1
89	Control of cyberphysical systems using passivity and dissipativity based methods. European Journal of Control, 2013, 19, 379-388.	2.6	85
90	Decentralised event-triggered cooperative control with limited communication. International Journal of Control, 2013, 86, 1479-1488.	1.9	206

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91	On Reliable Stabilization via Rectangular Dilated LMIs and Dissipativity-Based Certifications. IEEE Transactions on Automatic Control, 2013, 58, 792-796.	5.7	10
92	Prenatal diagnosis of Wolfâ€“Hirschhorn syndrome: ultrasonography and genetics. Journal of Maternal-Fetal and Neonatal Medicine, 2013, 26, 941-942.	1.5	11
93	Event-triggered output feedback control for networked control systems using passivity: Achieving stability in the presence of communication delays and signal quantization. Automatica, 2013, 49, 30-38.	5.0	188
94	Model-Based Event-Triggered Control for Systems With Quantization and Time-Varying Network Delays. IEEE Transactions on Automatic Control, 2013, 58, 422-434.	5.7	535
95	Control of Networked Switched Systems Using Passivity and Dissipativity / Regelung vernetzter geschalteter Systeme unter Nutzung von PassivitÄts- und DissipativitÄtseigenschaften. Automatisierungstechnik, 2013, 61, 712-721.	0.8	2
96	Stochastic passivity of discrete-time Markovian jump nonlinear systems. , 2013, , .		2
97	Efficient design of Petri-net supervisors with disjunctive specifications. , 2013, , .		8
98	Model-based scheduling for networked control systems. , 2013, , .		2
99	Robust stabilizing output feedback nonlinear model predictive control by using passivity and dissipativity. , 2013, , .		6
100	The Assessment of Fetal Neurobehavior with Four-dimensional Ultrasound: The Kurjak Antenatal Neurodevelopmental Test. Donald School Journal of Ultrasound in Obstetrics and Gynecology, 2012, 6, 362-375.	0.3	6
101	The ACTS software and its supervisory control framework. , 2012, , .		1
102	Characterization of robust feedback Nash equilibrium for multi-channel systems. , 2012, , .		0
103	Quantized output synchronization of networked passive systems with event-driven communication. , 2012, , .		4
104	Decentralized model-based event-triggered control of networked systems. , 2012, , .		35
105	Passivity and stability of switched systems under quantization. , 2012, , .		18
106	Formation control of multi-agent systems with connectivity preservation by using both event-driven and time-driven communication. , 2012, , .		21
107	Parameter estimation in time-triggered and event-triggered model-based control of uncertain systems. International Journal of Control, 2012, 85, 1327-1342.	1.9	15
108	Model-Based Control of continuous-time and discrete-time systems with large network induced delays. , 2012, , .		2

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109	Stability of interconnected switched systems using QSR dissipativity with multiple supply rates. , 2012, , .		14
110	Generalized passivity in discrete-time switched nonlinear systems. , 2012, , .		2
111	Toward a Science of Cyber-Physical System Integration. Proceedings of the IEEE, 2012, 100, 29-44.	21.3	247
112	Passivity indices for symmetrically interconnected distributed systems. , 2011, , .		9
113	Event-triggered output feedback control for networked control systems using passivity: Triggering condition and limitations. , 2011, , .		21
114	Model-based tracking control over networks. , 2011, , .		6
115	Event-triggered real-time scheduling for stabilization of passive and output feedback passive systems. , 2011, , .		13
116	Stabilization of large-scale distributed control systems using I/O event-driven control and passivity. , 2011, , .		1
117	The role of cervical length measurement at 11-14 weeks for the prediction of preterm delivery. Journal of Maternal-Fetal and Neonatal Medicine, 2011, 24, 465-470.	1.5	23
118	Model-based event-triggered control with time-varying network delays. , 2011, , .		114
119	Event-triggered output feedback control for networked control systems using passivity: Time-varying network induced delays. , 2011, , .		32
120	Robust/reliable stabilization of multi-channel systems via dilated LMIs and dissipativity-based certifications. , 2011, , .		4
121	Risk-sensitive control under a Markov modulated Denial-of-Service attack model. , 2011, , .		11
122	Risk-sensitive control under a class of denial-of-service attack models. , 2011, , .		25
123	DES abstractions for the supervisory control of hybrid systems. Transactions of the Institute of Measurement and Control, 2010, 32, 468-486.	1.7	3
124	Concurrent program synthesis based on supervisory control. , 2010, , .		19
125	Limitations of liveness in concurrent software systems. , 2010, , .		1
126	Control design for switched systems using passivity indices. , 2010, , .		34



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127	Multiagent coordination exploiting system symmetries. , 2010, , .		7
128	Symmetry in the design of large-scale complex control systems: Some initial results using dissipativity and lyapunov stability. , 2010, , .		3
129	Stability of networked passive switched systems. , 2010, , .		12
130	Model-based control with intermittent feedback: bridging the gap between continuous and instantaneous feedback. International Journal of Control, 2010, 83, 2588-2605.	1.9	14
131	Passivity-based output synchronization of networked Euler-Lagrange systems subject to nonholonomic constraints. , 2010, , .		6
132	A passivity measure of systems in cascade based on passivity indices. , 2010, , .		21
133	Continuous-time consensus with discrete-time communication. , 2009, , .		0
134	Wireless digital control of continuous passive plants over token ring networks. International Journal of Robust and Nonlinear Control, 2009, 19, 2016-2039.	3.7	6
135	Performance of Model-Based Networked Control Systems with discrete-time plants. , 2009, , .		13
136	Petri nets and programming: A survey. , 2009, , .		22
137	Stability and Stabilizability of Switched Linear Systems: A Survey of Recent Results. IEEE Transactions on Automatic Control, 2009, 54, 308-322.	5.7	2,199
138	Stability of discrete-time plants using model-based control with intermittent feedback. , 2008, , .		12
139	Control of multiple networked passive plants with delays and data dropouts. , 2008, , .		9
140	Wireless control of passive systems subject to actuator constraints. , 2008, , .		4
141	Petri Net Supervisors for Disjunctive Constraints. Proceedings of the American Control Conference, 2007, , .	0.0	18
142	Stable digital control networks for continuous passive plants subject to delays and data dropouts. , 2007, , .		29
143	Control and Communication Challenges in Networked Real-Time Systems. Proceedings of the IEEE, 2007, 95, 9-28.	21.3	734
144	Switching Stabilizability for Continuous-Time Uncertain Switched Linear Systems. IEEE Transactions on Automatic Control, 2007, 52, 633-646.	5.7	138

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145	Supervision Based on Place Invariants: A Survey. Discrete Event Dynamic Systems: Theory and Applications, 2006, 16, 451-492.	1.5	105
146	Asymptotic stability and disturbance attenuation properties for a class of networked control systems. Journal of Control Theory and Applications, 2006, 4, 76-85.	0.8	19
147	Decentralized Formation Tracking of Multi-vehicle Systems with Nonlinear Dynamics. , 2006, , .		14
148	On time optimal control of integrator switched systems with state constraints. Nonlinear Analysis: Theory, Methods & Applications, 2005, 62, 1453-1465.	1.1	17
149	Safety and Reachability of Piecewise Linear Hybrid Dynamical Systems Based on Discrete Abstractions. Discrete Event Dynamic Systems: Theory and Applications, 2003, 13, 203-243.	1.5	19
150	Quadratic stabilizability of switched linear systems with polytopic uncertainties. International Journal of Control, 2003, 76, 747-753.	1.9	231
151	Set-valued observer design for a class of uncertain linear systems with persistent disturbance and measurement noise. International Journal of Control, 2003, 76, 1644-1653.	1.9	23
152	An adaptive inverse controller for explicit rate congestion control with guaranteed stability and fairness. International Journal of Control, 2003, 76, 24-47.	1.9	4
153	Results and Perspectives on Computational Methods for Optimal Control of Switched Systems. Lecture Notes in Computer Science, 2003, , 540-555.	1.3	84
154	Optimal control of switched systems via non-linear optimization based on direct differentiations of value functions. International Journal of Control, 2002, 75, 1406-1426.	1.9	136
155	Hybrid Supervisory Control in Intelligent Autonomous Systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2001, 34, 27-29.	0.4	2
156	An invariant-based approach to the design of hybrid control systems. International Journal of Robust and Nonlinear Control, 2001, 11, 453-478.	3.7	24
157	New Directions in Control Engineering Education: A North American Perspective. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2000, 33, 1-3.	0.4	2
158	Stabilization of second-order LTI switched systems. International Journal of Control, 2000, 73, 1261-1279.	1.9	183
159	An Optimization Approach to Control Reconfiguration. Journal of Dynamical and Control Systems, 1999, 9, 255-270.	0.4	10
160	Timed Petri Nets in Hybrid Systems: Stability and Supervisory Control. Discrete Event Dynamic Systems: Theory and Applications, 1998, 8, 137-173.	1.5	33
161	Optimal design of robust controllers for uncertain discrete-time systems. International Journal of Control, 1996, 65, 71-91.	1.9	8
162	Controllers with diagnostic capabilities. A neural network implementation. Journal of Intelligent and Robotic Systems: Theory and Applications, 1995, 12, 197-228.	3.4	3

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163	Polynomial and rational matrix interpolation: theory and control applications. International Journal of Control, 1993, 58, 349-404.	1.9	48
164	Reconfigurable control system design via perfect model following. International Journal of Control, 1992, 56, 783-798.	1.9	88
165	Failure Behavior Identification for a Space Antenna via Neural Networks. , 1992, , .		1
166	Lyapunov Stability of a Class of Discrete Event Systems. , 1991, , .		9
167	Timing Characteristics of Hierarchical Discrete Event Systems. , 1991, , .		2