

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 Stabilizability of Switched Linear Systems: A Survey of Recent Results. IEEE Transactions on Automatic Control, 2009, 54, 308-322.	5.7	2,199
2	Control and Communication Challenges in Networked Real-Time Systems. Proceedings of the IEEE, 2007, 95, 9-28.	21.3	734
3	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
4	Toward a Science of Cyber-Physical System Integration. Proceedings of the IEEE, 2012, 100, 29-44.	21.3	247
5	Quadratic stabilizability of switched linear systems with polytopic uncertainties. International Journal of Control, 2003, 76, 747-753.	1.9	231
6	Decentralised event-triggered cooperative control with limited communication. International Journal of Control, 2013, 86, 1479-1488.	1.9	206
7	Risk-Sensitive Control Under Markov Modulated Denial-of-Service (DoS) Attack Strategies. IEEE Transactions on Automatic Control, 2015, 60, 3299-3304.	5.7	189
8	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
9	Stabilization of second-order LTI switched systems. International Journal of Control, 2000, 73, 1261-1279.	1.9	183
10	Optimal control of hybrid switched systems: A brief survey. Discrete Event Dynamic Systems: Theory and Applications, 2015, 25, 345-364.	1.5	144
11	Switching Stabilizability for Continuous-Time Uncertain Switched Linear Systems. IEEE Transactions on Automatic Control, 2007, 52, 633-646.	5.7	138
12	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
13	On relationships among passivity, positive realness, and dissipativity in linear systems. Automatica, 2014, 50, 1003-1016.	5.0	120
14	Model-based event-triggered control with time-varying network delays. , 2011, , .		114
15	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
16	Supervision Based on Place Invariants: A Survey. Discrete Event Dynamic Systems: Theory and Applications, 2006, 16, 451-492.	1.5	105
17	Reconfigurable control system design via perfect model following. International Journal of Control, 1992, 56, 783-798.	1.9	88
18	Output Synchronization of Networked Passive Systems With Event-Driven Communication. IEEE Transactions on Automatic Control, 2014, 59, 750-756.	5.7	86

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19	Control of cyberphysical systems using passivity and dissipativity based methods. <i>European Journal of Control</i> , 2013, 19, 379-388.	2.6	85
20	Results and Perspectives on Computational Methods for Optimal Control of Switched Systems. <i>Lecture Notes in Computer Science</i> , 2003, , 540-555.	1.3	84
21	Passivity-Based Design for Event-Triggered Networked Control Systems. <i>IEEE Transactions on Automatic Control</i> , 2018, 63, 2755-2770.	5.7	53
22	Passivity and Dissipativity Analysis of a System and Its Approximation. <i>IEEE Transactions on Automatic Control</i> , 2017, 62, 620-635.	5.7	51
23	Polynomial and rational matrix interpolation: theory and control applications. <i>International Journal of Control</i> , 1993, 58, 349-404.	1.9	48
24	On Passivity of a Class of Discrete-Time Switched Nonlinear Systems. <i>IEEE Transactions on Automatic Control</i> , 2014, 59, 692-702.	5.7	48
25	Networked State Estimation Over a Shared Communication Medium. <i>IEEE Transactions on Automatic Control</i> , 2017, 62, 1729-1741.	5.7	41
26	Decentralized model-based event-triggered control of networked systems. , 2012, , .		35
27	Control design for switched systems using passivity indices. , 2010, , .		34
28	Timed Petri Nets in Hybrid Systems: Stability and Supervisory Control. <i>Discrete Event Dynamic Systems: Theory and Applications</i> , 1998, 8, 137-173.	1.5	33
29	Event-triggered output feedback control for networked control systems using passivity: Time-varying network induced delays. , 2011, , .		32
30	Passivity analysis and passivation of feedback systems using passivity indices. , 2014, , .		32
31	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. <i>American Journal of Obstetrics & Gynecology MFM</i> , 2021, 3, 100329.	2.6	32
32	Multicentric studies of the fetal neurobehavior by KANET test. <i>Journal of Perinatal Medicine</i> , 2017, 45, 717-727.	1.4	31
33	Stable digital control networks for continuous passive plants subject to delays and data dropouts. , 2007, , .		29
34	Autonomy and machine intelligence in complex systems: A tutorial. , 2015, , .		29
35	Control Design Using Passivation for Stability and Performance. <i>IEEE Transactions on Automatic Control</i> , 2018, 63, 2987-2993.	5.7	26
36	Risk-sensitive control under a class of denial-of-service attack models. , 2011, , .		25

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37	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
38	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
39	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
40	The role of cervical length measurement at 11â€“14 weeks for the prediction of preterm delivery. Journal of Maternal-Fetal and Neonatal Medicine, 2011, 24, 465-470.	1.5	23
41	Petri nets and programming: A survey. , 2009, , .		22
42	Control and Machine Intelligence for System Autonomy. Journal of Intelligent and Robotic Systems: Theory and Applications, 2018, 91, 23-34.	3.4	22
43	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
44	A passivity measure of systems in cascade based on passivity indices. , 2010, , .		21
45	Event-triggered output feedback control for networked control systems using passivity: Triggering condition and limitations. , 2011, , .		21
46	Formation control of multi-agent systems with connectivity preservation by using both event-driven and time-driven communication. , 2012, , .		21
47	Distributed Synthesis of Local Controllers for Networked Systems With Arbitrary Interconnection Topologies. IEEE Transactions on Automatic Control, 2021, 66, 683-698.	5.7	21
48	4D assessment of fetal brain function in diabetic patients. Journal of Perinatal Medicine, 2017, 45, 711-715.	1.4	20
49	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
50	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
51	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
52	Concurrent program synthesis based on supervisory control. , 2010, , .		19
53	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
54	Petri Net Supervisors for Disjunctive Constraints. Proceedings of the American Control Conference, 2007, , .	0.0	18

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55	Passivity and stability of switched systems under quantization. , 2012, , .		18
56	On time optimal control of integrator switched systems with state constraints. <i>Nonlinear Analysis: Theory, Methods & Applications</i> , 2005, 62, 1453-1465.	1.1	17
57	Routine immunizations during pregnancy, doctorsâ€™ compliance and patient hesitancy: A two stage study on vaccination uptake. <i>European Journal of Obstetrics, Gynecology and Reproductive Biology</i> , 2019, 243, 36-40.	1.1	17
58	On guaranteeing passivity and performance with a human controller. , 2015, , .		16
59	Fetal loss following second trimester amniocentesis. Who is at greater risk? How to counsel pregnant women?. <i>Journal of Maternal-Fetal and Neonatal Medicine</i> , 2016, 29, 590-595.	1.5	16
60	A QSR-Dissipativity Based Design for Event-Triggered Networked Systems. <i>IEEE Transactions on Automatic Control</i> , 2019, 64, 2590-2597.	5.7	16
61	Parameter estimation in time-triggered and event-triggered model-based control of uncertain systems. <i>International Journal of Control</i> , 2012, 85, 1327-1342.	1.9	15
62	On Feedback Passivity of Discrete-Time Nonlinear Networked Control Systems With Packet Drops. <i>IEEE Transactions on Automatic Control</i> , 2015, 60, 2434-2439.	5.7	15
63	Decentralized Formation Tracking of Multi-vehicle Systems with Nonlinear Dynamics. , 2006, , .		14
64	Model-based control with intermittent feedback: bridging the gap between continuous and instantaneous feedback. <i>International Journal of Control</i> , 2010, 83, 2588-2605.	1.9	14
65	Stability of interconnected switched systems using QSR dissipativity with multiple supply rates. , 2012, , .		14
66	A resilient design for cyber physical systems under attack. , 2017, , .		14
67	Performance of Model-Based Networked Control Systems with discrete-time plants. , 2009, , .		13
68	Event-triggered real-time scheduling for stabilization of passive and output feedback passive systems. , 2011, , .		13
69	Stability of discrete-time plants using model-based control with intermittent feedback. , 2008, , .		12
70	Stability of networked passive switched systems. , 2010, , .		12
71	Event-triggered output feedback stabilization of networked systems with external disturbance. , 2014, , .		12
72	Risk-sensitive control under a Markov modulated Denial-of-Service attack model. , 2011, , .		11

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73	Prenatal diagnosis of Wolf-Hirschhorn syndrome: ultrasonography and genetics. <i>Journal of Maternal-Fetal and Neonatal Medicine</i> , 2013, 26, 941-942.	1.5	11
74	A QSR-dissipativity and passivity based analysis of event-triggered networked control systems. , 2016, , .		11
75	Immunizations during pregnancy: How, when and why. <i>European Journal of Obstetrics, Gynecology and Reproductive Biology</i> , 2019, 240, 29-35.	1.1	11
76	Learning-Based Event-Triggered Control for Synchronization of Passive Multiagent Systems Under Attack. <i>IEEE Transactions on Automatic Control</i> , 2020, 65, 4170-4185.	5.7	11
77	An Optimization Approach to Control Reconfiguration. <i>Journal of Dynamical and Control Systems</i> , 1999, 9, 255-270.	0.4	10
78	On Reliable Stabilization via Rectangular Dilated LMIs and Dissipativity-Based Certifications. <i>IEEE Transactions on Automatic Control</i> , 2013, 58, 792-796.	5.7	10
79	SOS methods for demonstrating dissipativity for switched systems. , 2014, , .		10
80	Local passivity analysis of nonlinear systems: A sum-of-squares optimization approach. , 2016, , .		10
81	Learning-based formal synthesis of cooperative multi-agent systems with an application to robotic coordination. , 2016, , .		10
82	Feedback passivation of nonlinear switched systems using linear approximations. , 2017, , .		10
83	Sequential Synthesis of Distributed Controllers for Cascade Interconnected Systems. , 2019, , .		10
84	Effect of dietary myo-inositol supplementation on the insulin resistance and the prevention of gestational diabetes mellitus: study protocol for a randomized controlled trial. <i>Trials</i> , 2020, 21, 633.	1.6	10
85	Lyapunov Stability of a Class of Discrete Event Systems. , 1991, , .		9
86	Control of multiple networked passive plants with delays and data dropouts. , 2008, , .		9
87	Passivity indices for symmetrically interconnected distributed systems. , 2011, , .		9
88	Multi-center results on the clinical use of KANET. <i>Journal of Perinatal Medicine</i> , 2019, 47, 897-909.	1.4	9
89	Network-based protein structural classification. <i>Royal Society Open Science</i> , 2020, 7, 191461.	2.4	9
90	Association of Low Maternal Pregnancy-associated Plasma Protein A with Adverse Perinatal Outcome. <i>Cureus</i> , 2019, 11, e4912.	0.5	9

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91	Optimal design of robust controllers for uncertain discrete-time systems. International Journal of Control, 1996, 65, 71-91.	1.9	8
92	Efficient design of Petri-net supervisors with disjunctive specifications. , 2013, , .		8
93	Dissipativity of hybrid systems: Feedback interconnections and networks. , 2016, , .		8
94	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
95	Recent Advances in Analysis and Design of Cyber-physical Systems using Passivity Indices. , 2019, , .		8
96	Passivity and passivity indices of nonlinear systems under operational limitations using approximations. International Journal of Control, 2021, 94, 1114-1124.	1.9	8
97	Multiagent coordination exploiting system symmetries. , 2010, , .		7
98	Analysis of Two-Dimensional Feedback Systems Over Networks Using Dissipativity. IEEE Transactions on Automatic Control, 2020, 65, 3241-3255.	5.7	7
99	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
100	Passivity-based output synchronization of networked Euler-Lagrange systems subject to nonholonomic constraints. , 2010, , .		6
101	Model-based tracking control over networks. , 2011, , .		6
102	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
103	Robust stabilizing output feedback nonlinear model predictive control by using passivity and dissipativity. , 2013, , .		6
104	A passivation method for the design of switched controllers. , 2016, , .		5
105	Passivation and performance optimization using an extremum seeking co-simulation framework with application to Adaptive Cruise Control systems. , 2016, , .		5
106	Mixed Voltage Angle and Frequency Droop Control for Transient Stability of Interconnected Microgrids with Loss of PMU Measurements. , 2020, , .		5
107	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
108	Healthcare workersâ€™ attitudes about vaccination of pregnant women and those wishing to become pregnant. Journal of Perinatal Medicine, 2022, 50, 363-366.	1.4	5

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109	An adaptive inverse controller for explicit rate congestion control with guaranteed stability and fairness. <i>International Journal of Control</i> , 2003, 76, 24-47.	1.9	4
110	Wireless control of passive systems subject to actuator constraints. , 2008, , .		4
111	Robust/reliable stabilization of multi-channel systems via dilated LMIs and dissipativity-based certifications. , 2011, , .		4
112	Quantized output synchronization of networked passive systems with event-driven communication. , 2012, , .		4
113	Stabilizing nonlinear model predictive control scheme based on passivity and dissipativity. , 2016, , .		4
114	Dissipativity of finite and hybrid automata: An overview. , 2017, , .		4
115	Prenatal Diagnosis of Adrenal Neuroblastoma – Differential Diagnosis of Suprarenal Masses in the Third Trimester of Pregnancy. <i>Ultrasound International Open</i> , 2019, 05, E93-E95.	0.6	4
116	Vaginal Delivery at Term in a Woman with a Spontaneous Heterotopic Pregnancy Treated with Laparoscopic Salpingectomy. <i>Case Reports in Obstetrics and Gynecology</i> , 2020, 2020, 1-5.	0.3	4
117	Effectiveness of maternal vaccination with quadrivalent inactivated influenza vaccine in pregnant women and their infants in 2019-2020. <i>Expert Review of Vaccines</i> , 2021, , 1-10.	4.4	4
118	Controllers with diagnostic capabilities. A neural network implementation. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , 1995, 12, 197-228.	3.4	3
119	DES abstractions for the supervisory control of hybrid systems. <i>Transactions of the Institute of Measurement and Control</i> , 2010, 32, 468-486.	1.7	3
120	Symmetry in the design of large-scale complex control systems: Some initial results using dissipativity and lyapunov stability. , 2010, , .		3
121	On the reliable decentralised stabilisation of <i>MIMO</i> systems. <i>International Journal of Control</i> , 2014, 87, 1565-1572.	1.9	3
122	Passivity Analysis and Passivation of Interconnected Event-Triggered Feedback Systems Using Passivity Indices. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2014, 47, 11177-11182.	0.4	3
123	A passivity-based self-triggered strategy for cyber physical systems under denial-of-service attack. , 2017, , .		3
124	3D vocal power Doppler sonography for the estimation of tumor volume and vascularization in stage IB1 cervical cancer. <i>Archives of Gynecology and Obstetrics</i> , 2018, 298, 617-622.	1.7	3
125	Feedback Passivation of Linear Systems With Fixed-Structure Controllers. , 2020, 4, 498-503.		3
126	Placental Mesenchymal Dysplasia: Ultrasound Characteristics and Diagnostic Pitfalls. <i>Ultrasound International Open</i> , 2020, 06, E2-E3.	0.6	3

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127	Covid-19 and pregnancy: the experience of a tertiary maternity hospital. <i>Journal of Perinatal Medicine</i> , 2021, 49, 686-690.	1.4	3
128	Prenatal diagnosis of aberrant right subclavian artery: a literature review. <i>Journal of Maternal-Fetal and Neonatal Medicine</i> , 2022, 35, 8856-8862.	1.5	3
129	Myomectomy during pregnancy; diagnostical dilemmas: two case reports and a systematic review of the literature. <i>Journal of Obstetrics and Gynaecology</i> , 2022, 42, 757-765.	0.9	3
130	New Directions in Control Engineering Education: A North American Perspective. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2000, 33, 1-3.	0.4	2
131	Hybrid Supervisory Control in Intelligent Autonomous Systems. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2001, 34, 27-29.	0.4	2
132	Model-Based Control of continuous-time and discrete-time systems with large network induced delays. , 2012, , .		2
133	Generalized passivity in discrete-time switched nonlinear systems. , 2012, , .		2
134	Control of Networked Switched Systems Using Passivity and Dissipativity / Regelung vernetzter geschalteter Systeme unter Nutzung von Passivitäts- und Dissipativitätseigenschaften. <i>Automatisierungstechnik</i> , 2013, 61, 712-721.	0.8	2
135	Stochastic passivity of discrete-time Markovian jump nonlinear systems. , 2013, , .		2
136	Model-based scheduling for networked control systems. , 2013, , .		2
137	Evaluation of the efficacy of cervical pessary combined with vaginal progesterone in women with a short cervix and additional risk factors for preterm delivery. <i>Journal of Maternal-Fetal and Neonatal Medicine</i> , 2021, 34, 1277-1283.	1.5	2
138	Sonographic Evaluation of the Mechanism of Active Labor (SonoLabor Study): observational study protocol regarding the implementation of the sonopartogram. <i>BMJ Open</i> , 2021, 11, e047188.	1.9	2
139	Timing Characteristics of Hierarchical Discrete Event Systems. , 1991, , .		2
140	Passivity and Passivity Indices for Switched and Cyber-Physical Systems. , 2020, , 1-7.		2
141	Limitations of liveness in concurrent software systems. , 2010, , .		1
142	Stabilization of large-scale distributed control systems using I/O event-driven control and passivity. , 2011, , .		1
143	The ACTS software and its supervisory control framework. , 2012, , .		1
144	Characterization of feedback Nash equilibria for multi-channel systems via a set of non-fragile stabilizing state-feedback solutions and dissipativity inequalities. <i>Mathematics of Control, Signals, and Systems</i> , 2013, 25, 311-326.	2.3	1

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145	Output feedback stabilization of discrete time networked systems with external disturbance. , 2014, , .		1
146	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
147	Common Adverse Effects of Anti-TNF Agents on Gestation. Obstetrics and Gynecology International, 2016, 2016, 1-6.	1.3	1
148	A notion of dissipativity for discrete event systems. , 2016, , .		1
149	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
150	Failure Behavior Identification for a Space Antenna via Neural Networks. , 1992, , .		1
151	4D in Functional Studies of the Fetus. Donald School Journal of Ultrasound in Obstetrics and Gynecology, 2019, 13, 23-33.	0.3	1
152	Passivity, Dissipativity and Passivity Indices. , 2020, , 1-5.		1
153	Recent Advances in the Study of Fetal Brain Structure and Function. , 2022, 1, 81-93.		1
154	Continuous-time consensus with discrete-time communication. , 2009, , .		0
155	Characterization of robust feedback Nash equilibrium for multi-channel systems. , 2012, , .		0
156	The quest for autonomy. Are we there yet? Are CPS a way to build autonomous systems?. , 2015, , .		0
157	Encoding Multi-Resolution Brain Networks Using Unsupervised Deep Learning. , 2017, , .		0
158	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
159	Assessment of Fetal Neurobehavior in Special Cases. Donald School Journal of Ultrasound in Obstetrics and Gynecology, 2021, 15, 195-202.	0.3	0
160	Passivity, Dissipativity, and Passivity Indices. , 2021, , 1680-1684.		0
161	Dissipativity-Based Verification for Autonomous Systems in Adversarial Environments. Studies in Systems, Decision and Control, 2021, , 273-291.	1.0	0
162	Four-dimensional features of fetal brain. , 2021, , 165-171.		0

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163	Passivity and Passivity Indices for Switched and Cyber-physical Systems. , 2021, , 1674-1680.		0
164	On noncooperative n -player principal eigenvalue games. Journal of Dynamics and Games, 2015, 2, 51-63.	1.0	0
165	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
166	Stability and Stabilization. Advanced Textbooks in Control and Signal Processing, 2022, , 157-226.	1.0	0
167	Evolution of Assessment of Fetal Brain Function. Donald School Journal of Ultrasound in Obstetrics and Gynecology, 2022, 16, 66-78.	0.3	0