

# Natalia O Amelina

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

29 papers	252 citations	9 h-index	15 g-index
36 ext. papers	301 ext. citations	1.4 avg, IF	3.39 L-index

#	Paper	IF	Citations
29	Consensus-based Distributed Algorithm for Multisensor-Multitarget Tracking under Unknown But Bounded Disturbances. <i>IFAC-PapersOnLine</i> , <b>2020</b> , 53, 3589-3595	0.7	1
28	Distributed Tracking via Simultaneous Perturbation Stochastic Approximation-based Consensus Algorithm <b>2019</b> ,		2
27	Toward Optimal Distributed Node Scheduling in a Multihop Wireless Network Through Local Voting. <i>IEEE Transactions on Wireless Communications</i> , <b>2018</b> , 17, 400-414	9.6	19
26	Satisfying the Cost Constraints in a Network System Operating by the Consensus Protocol with Different Task Priorities. <i>IFAC-PapersOnLine</i> , <b>2018</b> , 51, 367-372	0.7	
25	Adjustment of Consensus Protocol Step-Size in a Network System with Different Task Priorities via SPSA-like Algorithm under the Cost Constraints. <i>IFAC-PapersOnLine</i> , <b>2018</b> , 51, 100-105	0.7	1
24	Local voting protocol step-size choice for consensus achievement. <i>International Journal of Intelligent Engineering Informatics</i> , <b>2018</b> , 6, 169	0.3	1
23	Local voting: Optimal distributed node scheduling algorithm for multihop wireless networks <b>2017</b> ,		5
22	Adaptation of Aircraft Wings Elements in Turbulent Flows by Local Voting Protocol. <i>IFAC-PapersOnLine</i> , <b>2017</b> , 50, 1904-1909	0.7	1
21	Choice of step-size for consensus protocol in changing conditions via stochastic approximation type algorithm <b>2016</b> ,		1
20	Using Stochastic Approximation Type Algorithm for Choice of Consensus Protocol Step-Size in Changing Conditions**This work was supported by Russian Foundation for Basic Research, projects number 15-08-02640 and 16-01-00759 and Saint Petersburg State University grant 6.37.181.2014.. <i>IFAC-PapersOnLine</i> , <b>2016</b> , 49, 265-269	0.7	2
19	. <i>IEEE Transactions on Information Theory</i> , <b>2015</b> , 61, 1739-1752	2.8	64
18	Optimal step-size of a local voting protocol for differentiated consensus achievement in a stochastic network with cost constraints <b>2015</b> ,		1
17	Optimal step-size of a local voting protocol for differentiated consensus achievement in a stochastic network with priorities <b>2015</b> ,		6
16	Simultaneous Perturbation Stochastic Approximation in Decentralized Load Balancing Problem. <i>IFAC-PapersOnLine</i> , <b>2015</b> , 48, 936-941	0.7	
15	Simultaneous Perturbation Stochastic Approximation for Tracking Under Unknown but Bounded Disturbances. <i>IEEE Transactions on Automatic Control</i> , <b>2015</b> , 60, 1653-1658	5.9	31
14	Differentiated consensus in a stochastic network with priorities <b>2014</b> ,		8
13	Approximate consensus in multi-agent nonlinear stochastic systems <b>2014</b> ,		6

12	Consensus Based Report-Back Protocol for Improving the Network Lifetime in Underwater Sensor Networks. <i>Lecture Notes in Computer Science</i> , <b>2014</b> , 26-37	0.9	5
11	Differentiated consensus in decentralized load balancing problem with randomized topology, noise, and delays <b>2014</b> ,		12
10	Exact confidence regions for linear regression parameter under external arbitrary noise <b>2014</b> ,		4
9	Local voting protocol for decentralized load balancing of network with switched topology and noise in measurements. <i>Vestnik St Petersburg University: Mathematics</i> , <b>2013</b> , 46, 118-125	0.3	1
8	Local voting protocol in decentralized load balancing problem with switched topology, noise, and delays <b>2013</b> ,		13
7	Task Allocation Algorithm for the Cooperating Group of Light Autonomous Unmanned Aerial Vehicles*. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2013</b> , 46, 152-155		6
6	Randomized Algorithm for UAVs Group Flight Optimization. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2013</b> , 46, 205-208		9
5	Scheduling networks with variable topology in the presence of noise and delays in measurements. <i>Vestnik St Petersburg University: Mathematics</i> , <b>2012</b> , 45, 56-60	0.3	5
4	Approximate consensus in the dynamic stochastic network with incomplete information and measurement delays. <i>Automation and Remote Control</i> , <b>2012</b> , 73, 1765-1783	0.6	26
3	Multi-agent Stochastic Systems with Switched Topology and Noise <b>2012</b> ,		9
2	Approximate consensus in multi-agent stochastic systems with switched topology and noise <b>2012</b> ,		9
1	Combined procedure with randomized controls for the parameters' confidence region of linear plant under external arbitrary noise <b>2012</b> ,		3