

# Stamatis Karnouskos

## List of Publications by Citations

**Source:** <https://exaly.com/author-pdf/8865813/stamatis-karnouskos-publications-by-citations.pdf>

**Version:** 2024-04-27

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

165  
papers

4,350  
citations

30  
h-index

62  
g-index

179  
ext. papers

5,188  
ext. citations

3.8  
avg. IF

6.21  
L-index

#	Paper	IF	Citations
165	Interacting with the SOA-Based Internet of Things: Discovery, Query, Selection, and On-Demand Provisioning of Web Services. <i>IEEE Transactions on Services Computing</i> , <b>2010</b> , 3, 223-235	4.8	451
164	Industrial automation based on cyber-physical systems technologies: Prototype implementations and challenges. <i>Computers in Industry</i> , <b>2016</b> , 81, 11-25	11.6	379
163	. <i>Proceedings of the IEEE</i> , <b>2016</b> , 104, 1086-1101	14.3	240
162	Stuxnet worm impact on industrial cyber-physical system security <b>2011</b> ,		198
161	SOA-Based Integration of the Internet of Things in Enterprise Services <b>2009</b> ,		182
160	Industrial Cyberphysical Systems: A Backbone of the Fourth Industrial Revolution. <i>IEEE Industrial Electronics Magazine</i> , <b>2017</b> , 11, 6-16	6.2	179
159	The Internet of Things in an Enterprise Context. <i>Lecture Notes in Computer Science</i> , <b>2009</b> , 14-28	0.9	154
158	Industrial Cloud-Based Cyber-Physical Systems <b>2014</b> ,		143
157	The Impact of Smart Grid Prosumer Grouping on Forecasting Accuracy and Its Benefits for Local Electricity Market Trading. <i>IEEE Transactions on Smart Grid</i> , <b>2014</b> , 5, 402-410	10.7	127
156	Mobile payment: A journey through existing procedures and standardization initiatives. <i>IEEE Communications Surveys and Tutorials</i> , <b>2004</b> , 6, 44-66	37.1	111
155	SOCRADES: A Web Service Based Shop Floor Integration Infrastructure. <i>Lecture Notes in Computer Science</i> , <b>2008</b> , 50-67	0.9	108
154	An energy market for trading electricity in smart grid neighbourhoods <b>2012</b> ,		96
153	Cyber-Physical Systems in the SmartGrid <b>2011</b> ,		92
152	Simulation of a Smart Grid City with Software Agents <b>2009</b> ,		83
151	Integration of SOA-ready networked embedded devices in enterprise systems via a cross-layered web service infrastructure <b>2007</b> ,		70
150	Architecting the next generation of service-based SCADA/DCS system of systems <b>2011</b> ,		69
149	A SOA-based architecture for empowering future collaborative cloud-based industrial automation <b>2012</b> ,		62

148	Towards an architecture for service-oriented process monitoring and control <b>2010</b> ,		48
147	Industrial Cyberphysical Systems: Realizing Cloud-Based Big Data Infrastructures. <i>IEEE Industrial Electronics Magazine</i> , <b>2018</b> , 12, 25-35	6.2	46
146	Demand Side Management via prosumer interactions in a smart city energy marketplace <b>2011</b> ,		42
145	Privacy and Integrity Considerations in Hyperconnected Autonomous Vehicles. <i>Proceedings of the IEEE</i> , <b>2018</b> , 106, 160-170	14.3	38
144	Key Contributing Factors to the Acceptance of Agents in Industrial Environments. <i>IEEE Transactions on Industrial Informatics</i> , <b>2017</b> , 13, 696-703	11.9	37
143	<b>2013</b> ,		37
142	Smart Houses in the Smart Grid: Developing an interactive network.. <i>IEEE Electrification Magazine</i> , <b>2014</b> , 2, 81-93	2.6	36
141	Factory of the Future: A Service-oriented System of Modular, Dynamic Reconfigurable and Collaborative Systems. <i>Springer Series in Advanced Manufacturing</i> , <b>2010</b> , 459-481	0.9	35
140	An Advanced Metering Infrastructure for Future Energy Networks <b>2007</b> , 597-606		35
139	A time-series compression technique and its application to the smart grid. <i>VLDB Journal</i> , <b>2015</b> , 24, 193-218	3.8	34
138	Energy services for the smart grid city <b>2012</b> ,		34
137	Real-world Service Interaction with Enterprise Systems in Dynamic Manufacturing Environments. <i>Springer Series in Advanced Manufacturing</i> , <b>2010</b> , 423-457	0.9	34
136	Process-Based Design and Integration of Wireless Sensor Network Applications. <i>Lecture Notes in Computer Science</i> , <b>2012</b> , 134-149	0.9	32
135	Towards the energy efficient future factory <b>2009</b> ,		30
134	Self-Driving Car Acceptance and the Role of Ethics. <i>IEEE Transactions on Engineering Management</i> , <b>2020</b> , 67, 252-265	2.6	30
133	Towards the Next Generation of Industrial Cyber-Physical Systems <b>2014</b> , 1-22		29
132	. <i>IEEE Industrial Electronics Magazine</i> , <b>2020</b> , 14, 18-32	6.2	29
131	A migration approach towards a SOA-based next generation process control and monitoring <b>2011</b> ,		28

130	A roadmap for research in mobile business. <i>International Journal of Mobile Communications</i> , <b>2005</b> , 3, 350-1.2	28
129	IMC-AESOP outcomes: Paving the way to collaborative manufacturing systems <b>2014</b> ,	25
128	<b>2012</b> ,	25
127	The IMC-AESOP Architecture for Cloud-Based Industrial Cyber-Physical Systems <b>2014</b> , 49-88	24
126	Massive open online courses (MOOCs) as an enabler for competent employees and innovation in industry. <i>Computers in Industry</i> , <b>2017</b> , 91, 1-10	11.6 22
125	Energy efficiency driven process analysis and optimization in discrete manufacturing <b>2009</b> ,	22
124	A Survey on Edge and Edge-Cloud Computing Assisted Cyber-Physical Systems. <i>IEEE Transactions on Industrial Informatics</i> , <b>2021</b> , 17, 7806-7819	11.9 22
123	A survey towards understanding residential prosumers in smart grid neighbourhoods <b>2012</b> ,	21
122	Industrial Agents in the Era of Service-Oriented Architectures and Cloud-Based Industrial Infrastructures <b>2015</b> , 67-87	20
121	Key Directions for Industrial Agent Based Cyber-Physical Production Systems <b>2019</b> ,	20
120	The need for a digital rights management framework for the next generation of e-government services. <i>Electronic Government</i> , <b>2004</b> , 1, 8	0.9 19
119	Artificial Intelligence in Digital Media: The Era of Deepfakes. <i>IEEE Transactions on Technology and Society</i> , <b>2020</b> , 1, 138-147	5.2 18
118	Cross benefits from cyber-physical systems and intelligent products for future smart industries <b>2016</b> ,	18
117	Common practices for integrating industrial agents and low level automation functions <b>2017</b> ,	17
116	The Emerging Domain of Cooperating Objects <b>2011</b> ,	17
115	Using flexible energy infrastructures for demand response in a Smart Grid city <b>2012</b> ,	17
114	Towards business processes orchestrating the physical enterprise with wireless sensor networks <b>2012</b> ,	16
113	The Future Internet. <i>Lecture Notes in Computer Science</i> , <b>2011</b> ,	0.9 16

112	Integration of Legacy Devices in the Future SOA-based Factory. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2009</b> , 42, 2113-2118		16
111	An Agent-Based Simulation of SOA-Ready Devices <b>2008</b> ,		16
110	State of the Art in Industrial Automation <b>2014</b> , 23-47		16
109	Industrial CyberPhysical Systems [Scanning the Issue]. <i>Proceedings of the IEEE</i> , <b>2016</b> , 104, 899-903	14.3	15
108	Trends and Challenges for Cloud-Based Industrial Cyber-Physical Systems <b>2014</b> , 231-240		15
107	Smart houses in the smart grid and the search for value-added services in the cloud of things era <b>2013</b> ,		14
106	Towards the Real-Time Enterprise: Service-based Integration of Heterogeneous SOA-ready Industrial Devices with Enterprise Applications. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2009</b> , 42, 2131-2136		14
105	Evaluating the potential of a service oriented infrastructure for the factory of the future <b>2010</b> ,		13
104	<b>2009</b> ,		13
103	Impact assessment of smart meter grouping on the accuracy of forecasting algorithms <b>2013</b> ,		12
102	Integration Patterns for Interfacing Software Agents with Industrial Automation Systems <b>2018</b> ,		12
101	Autonomic Communication <b>2009</b> ,		12
100	Asset monitoring in the service-oriented Internet of Things empowered smartgrid. <i>Service Oriented Computing and Applications</i> , <b>2012</b> , 6, 207-214	1.6	11
99	<b>2011</b> ,		11
98	Maximizing the Business Value of Networked Embedded Systems through Process-Level Integration into Enterprise Software <b>2007</b> ,		11
97	Quo Vadis Industry 4.0? Position, Trends, and Challenges. <i>IEEE Open Journal of the Industrial Electronics Society</i> , <b>2020</b> , 1, 298-310	3.6	11
96	Assessing the Integration of Software Agents and Industrial Automation Systems with ISO/IEC 25010 <b>2018</b> ,		11
95	Performance assessment of integration in the cloud of things via web services <b>2013</b> ,		10

94	The Future Internet. <i>Lecture Notes in Computer Science</i> , <b>2013</b> ,	0.9	10
93	Realising next-generation web service-driven industrial systems. <i>International Journal of Advanced Manufacturing Technology</i> , <b>2012</b> , 60, 409-419	3.2	10
92	Smart houses for a smart grid <b>2009</b> ,		10
91	SEMOPS: design of a new payment service <b>2003</b> ,		10
90	Engineering of Next Generation Cyber-Physical Automation System Architectures <b>2017</b> , 185-206		9
89	Sensing in power distribution networks via large numbers of smart meters <b>2012</b> ,		9
88	Requirement Considerations for Ubiquitous Integration of Cooperating Objects <b>2011</b> ,		9
87	Using multi-agent systems to simulate dynamic infrastructures populated with large numbers of web service enabled devices <b>2009</b> ,		9
86	The Future Internet. <i>Lecture Notes in Computer Science</i> , <b>2012</b> ,	0.9	9
85	Industrial Agents Cybersecurity <b>2015</b> , 109-120		9
84	A 70-Year Industrial Electronics Society Evolution Through Industrial Revolutions: The Rise and Flourishing of Information and Communication Technologies. <i>IEEE Industrial Electronics Magazine</i> , <b>2021</b> , 15, 115-126	6.2	9
83	Assessment of high-performance smart metering for the web service enabled smart grid era <b>2011</b> ,		8
82	Using a privilege management infrastructure for secure web-based e-health applications. <i>Computer Communications</i> , <b>2003</b> , 26, 1863-1872	5.1	8
81	Security implications of implementing active network infrastructures using agent technology. <i>Computer Networks</i> , <b>2001</b> , 36, 87-100	5.4	8
80	Monitoring and Control for Energy Efficiency in the Smart House. <i>Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering</i> , <b>2011</b> , 197-207	0.2	8
79	The Emerging Domain of Cooperating Objects. <i>Springer Briefs in Electrical and Computer Engineering</i> , <b>2012</b> ,	0.4	8
78	A Survey on Factors that Impact Industrial Agent Acceptance <b>2015</b> , 401-429		8
77	Engineering ethical behaviors in autonomous industrial cyber-physical human systems. <i>Cognition, Technology and Work</i> ,1	2.9	8

76	The Applicability of ISO/IEC 25023 Measures to the Integration of Agents and Automation Systems <b>2018,</b>		8
75	A community analysis of the IEEE IES industrial agents technical committee <b>2017,</b>		7
74	Next Generation of Engineering Methods and Tools for SOA-Based Large-Scale and Distributed Process Applications <b>2014,</b> 137-165		7
73	Web-service enabled wireless sensors in SOA environments <b>2008,</b>		7
72	Migration of SCADA/DCS Systems to the SOA Cloud <b>2014,</b> 111-135		7
71	Dynamic e-Maintenance in the era of SOA-ready device dominated industrial environments <b>2010,</b> 411-419		7
70	Applications and Markets for Cooperating Objects. <i>Springer Briefs in Electrical and Computer Engineering,</i> <b>2014,</b>	0.4	6
69	A comparative analysis of smart metering data aggregation performance <b>2013,</b>		6
68	Promising Technologies for SOA-Based Industrial Automation Systems <b>2014,</b> 89-109		6
67	Component-based execution environments of network elements and a protocol for their configuration. <i>IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews,</i> <b>2004,</b> 34, 82-96		6
66	Using a 6LoWPAN smart meter mesh network for event-driven monitoring of power quality <b>2012,</b>		5
65	<b>2011,</b>		5
64	Discovery and On-demand Provisioning of Real-World Web Services <b>2009,</b>		5
63	Dynamically Optimized Production Planning Using Cross-Layer SOA <b>2008,</b>		5
62	Plant Energy Management <b>2014,</b> 203-218		5
61	The role of utilitarianism, self-safety, and technology in the acceptance of self-driving cars. <i>Cognition, Technology and Work,</i> <b>2020,</b> 1	2.9	5
60	Symbiosis with artificial intelligence via the prism of law, robots, and society. <i>Artificial Intelligence and Law,</i> 1	2.2	5
59	. <i>IEEE Transactions on Software Engineering,</i> <b>2019,</b> 45, 576-596	3.5	5

58	Ethical Behaviour Aspects of Autonomous Intelligent Cyber-Physical Systems. <i>Studies in Computational Intelligence</i> , <b>2020</b> , 55-71	0.8	5
57	Performance Assessment Of The Integration Between Industrial Agents And Low-Level Automation Functions <b>2018</b> ,		5
56	Charging Strategies and Implications for Corporate Electric Vehicle Fleets <b>2018</b> ,		5
55	Investigating Electric Vehicles as a promising alternative to static storage solutions <b>2014</b> ,		4
54	Service-oriented SCADA and MES supporting Petri nets based orchestrated automation systems <b>2012</b> ,		4
53	NOBEL [A Neighborhood Oriented Brokerage Electricity and Monitoring System. <i>Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering</i> , <b>2011</b> , 187-196 <sup>0.2</sup>		4
52	Event-driven IPv6 communication for the smart grid infrastructure <b>2011</b> ,		4
51	Field Trials towards Integrating Smart Houses with the Smart Grid. <i>Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering</i> , <b>2011</b> , 114-123	0.2	4
50	A Cloud-based Development Environment using HLA and Kubernetes for the Co-simulation of a Corporate Electric Vehicle Fleet <b>2019</b> ,		3
49	A model and an evolutionary algorithmic approach towards optimization of Electric Vehicle fleet charging <b>2015</b> ,		3
48	Developing a web application for monitoring and management of Smart Grid neighborhoods <b>2013</b> ,		3
47	Charging optimization of enterprise electric vehicles for participation in demand response <b>2015</b> ,		3
46	The Cloud of Things Empowered Smart Grid Cities. <i>Internet of Things</i> , <b>2014</b> , 129-142	1.3	3
45	Assessment of an enterprise energy service platform in a Smart Grid city pilot <b>2013</b> ,		3
44	Realization of a secure active and programmable network infrastructure via mobile agent technology. <i>Computer Communications</i> , <b>2002</b> , 25, 1465-1476	5.1	3
43	Recommendation of Best Practices for Industrial Agent Systems based on the IEEE 2660.1 Standard <b>2021</b> ,		3
42	Technology Fundamentals <b>2019</b> , 67-126		3
41	Engineering human-focused Industrial Cyber-Physical Systems in Industry 4.0 context. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , <b>2021</b> , 379, 20200366	3	3



40	Evaluation of the scalability of an energy market for Smart Grid neighborhoods <b>2013</b> ,		2
39	Agent-based mediated control in smart grids <b>2011</b> ,		2
38	Predicting Energy Measurements of Service-Enabled Devices in the Future Smartgrid <b>2010</b> ,		2
37	The European perspective on mobile payments		2
36	Guest editorial special issue on computational intelligence in telecommunications networks and internet services-part III. <i>IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews</i> , <b>2004</b> , 34, 1-3		2
35	Guest Editorial - Special issue on computational intelligence in telecommunications networks and internet services - Part II. <i>IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews</i> , <b>2003</b> , 33, 429-431		2
34	Place oriented virtual private networks		2
33	Trade-off or invention: Experimental integration of active networking and programmable networks. <i>Journal of Communications and Networks</i> , <b>2001</b> , 3, 19-27	4.1	2
32	Agent Based Security for the Active Network Infrastructure. <i>Lecture Notes in Computer Science</i> , <b>1999</b> , 330-344	0.9	2
31	Enable QoS for Distributed Object Applications by ORB-Based Active Networking. <i>Lecture Notes in Computer Science</i> , <b>2000</b> , 225-238	0.9	2
30	Decentralized Intelligence in Energy Efficient Power Systems. <i>Energy Systems</i> , <b>2012</b> , 467-486	0.4	2
29	Improving accuracy of energy forecasting through the presence of an electric vehicle fleet. <i>Electric Power Systems Research</i> , <b>2015</b> , 120, 32-38	3.5	1
28	Experiences in integrating Internet of Things and cloud services with the robot operating system <b>2017</b> ,		1
27	Self-forecasting energy-load stakeholders <b>2014</b> ,		1
26	Reliable execution of business processes on dynamic networks of service-enabled devices <b>2009</b> ,		1
25	A Cross-Disciplinary View of Industrial Electronics: Change, Chance, and Challenge <b>2021</b> ,		1
24	Blockchain for Development in the Era of the COVID-19 Pandemic. <i>IEEE Open Journal of the Industrial Electronics Society</i> , <b>2021</b> , 2, 556-567	3.6	1
23	Information Use-Control in E-Government Applications <b>2007</b> , 1076-1082		1

22	Wesentliche Technologische Eigenschaften und Trends <b>2009</b> , 75-95		1
21	Smart Grid <b>2019</b> , 257-268		1
20	Addressing energy forecast errors: an empirical investigation of the capacity distribution impact in a variable storage. <i>Energy Systems</i> , <b>2014</b> , 5, 643-656	1.7	0
19	Industrial Automation <b>2019</b> , 249-256		0
18	Advancing an Artificial Intelligence Ethics Framework for Operator 4.0 in Sustainable Factory Automation. <i>Studies in Computational Intelligence</i> , <b>2022</b> , 363-375	0.8	0
17	Performance Evaluation of a Web Service Enabled Smart Metering Platform. <i>Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering</i> , <b>2011</b> , 54-63	0.2	
16	Instant Messaging Enabled Mobile Payments <b>2006</b> , 349-366		
15	Special issue on computational intelligence in telecommunications networks and Internet services. I. <i>IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews</i> , <b>2003</b> , 33, 294-296		
14	Security-enabled code deployment for heterogeneous networks. <i>Computer Standards and Interfaces</i> , <b>2005</b> , 27, 547-560	3.5	
13	Guest Editorial Industrial Agents: Concepts, Technologies, and Applications. <i>IEEE Journal of Emerging and Selected Topics in Industrial Electronics</i> , <b>2022</b> , 3, 2-4	2.6	
12	Wenn der Windpark mit der Waschmaschine redet□ <i>Wirtschaftsinformatik &amp; Management</i> , <b>2009</b> , 1, 30-34	0.2	
11	SeMoPS <b>2005</b> , 236-262		
10	Universal Approach to Mobile Payments <b>2006</b> , 1114-1119		
9	Towards Autonomic Infrastructures via Mobile Agents and Active Networks <b>2008</b> , 633-639		
8	Information Use-Control in E-Government Applications <b>2008</b> , 1926-1934		
7	Towards Autonomic Infrastructures via Mobile Agents and Active Networks <b>2009</b> , 642-649		
6	Universal Approach to Mobile Payments <b>2009</b> , 2280-2288		
5	Related Concepts. <i>Springer Briefs in Electrical and Computer Engineering</i> , <b>2012</b> , 17-35	0.4	

- 4 Markets for Cooperating Objects. *Springer Briefs in Electrical and Computer Engineering*, **2014**, 99-115 0.4
- 3 Deployment and Management of Cooperating Objects. *Springer Briefs in Electrical and Computer Engineering*, **2014**, 13-38 0.4
- 2 Conclusions and Looking Ahead **2019**, 317-320
- 1 A Cross-Disciplinary Outlook of Directions and Challenges in Industrial Electronics. *IEEE Open Journal of the Industrial Electronics Society*, **2022**, 1-1 3.6