

# Stamatis Karnouskos

## 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.

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	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	
164	A Cross-Disciplinary Outlook of Directions and Challenges in Industrial Electronics. <i>IEEE Open Journal of the Industrial Electronics Society</i> , <b>2022</b> , 1-1	3.6	
163	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
162	A Cross-Disciplinary View of Industrial Electronics: Change, Chance, and Challenge <b>2021</b> ,		1
161	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
160	Recommendation of Best Practices for Industrial Agent Systems based on the IEEE 2660.1 Standard <b>2021</b> ,		3
159	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
158	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
157	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
156	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
155	. <i>IEEE Industrial Electronics Magazine</i> , <b>2020</b> , 14, 18-32	6.2	29
154	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
153	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
152	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
151	Ethical Behaviour Aspects of Autonomous Intelligent Cyber-Physical Systems. <i>Studies in Computational Intelligence</i> , <b>2020</b> , 55-71	0.8	5
150	A Cloud-based Development Environment using HLA and Kubernetes for the Co-simulation of a Corporate Electric Vehicle Fleet <b>2019</b> ,		3
149	Key Directions for Industrial Agent Based Cyber-Physical Production Systems <b>2019</b> ,		20

148	Industrial Automation <b>2019</b> , 249-256		0
147	Conclusions and Looking Ahead <b>2019</b> , 317-320		
146	Smart Grid <b>2019</b> , 257-268		1
145	Technology Fundamentals <b>2019</b> , 67-126		3
144	. <i>IEEE Transactions on Software Engineering</i> , <b>2019</b> , 45, 576-596	3.5	5
143	Industrial Cyberphysical Systems: Realizing Cloud-Based Big Data Infrastructures. <i>IEEE Industrial Electronics Magazine</i> , <b>2018</b> , 12, 25-35	6.2	46
142	Privacy and Integrity Considerations in Hyperconnected Autonomous Vehicles. <i>Proceedings of the IEEE</i> , <b>2018</b> , 106, 160-170	14.3	38
141	Integration Patterns for Interfacing Software Agents with Industrial Automation Systems <b>2018</b> ,		12
140	The Applicability of ISO/IEC 25023 Measures to the Integration of Agents and Automation Systems <b>2018</b> ,		8
139	Performance Assessment Of The Integration Between Industrial Agents And Low-Level Automation Functions <b>2018</b> ,		5
138	Assessing the Integration of Software Agents and Industrial Automation Systems with ISO/IEC 25010 <b>2018</b> ,		11
137	Charging Strategies and Implications for Corporate Electric Vehicle Fleets <b>2018</b> ,		5
136	Engineering of Next Generation Cyber-Physical Automation System Architectures <b>2017</b> , 185-206		9
135	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
134	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
133	Experiences in integrating Internet of Things and cloud services with the robot operating system <b>2017</b> ,		1
132	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
131	Common practices for integrating industrial agents and low level automation functions <b>2017</b> ,		17

130	A community analysis of the IEEE IES industrial agents technical committee <b>2017</b> ,		7
129	Industrial CyberPhysical Systems [Scanning the Issue]. <i>Proceedings of the IEEE</i> , <b>2016</b> , 104, 899-903	14.3	15
128	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
127	Cross benefits from cyber-physical systems and intelligent products for future smart industries <b>2016</b> ,		18
126	. <i>Proceedings of the IEEE</i> , <b>2016</b> , 104, 1086-1101	14.3	240
125	A time-series compression technique and its application to the smart grid. <i>VLDB Journal</i> , <b>2015</b> , 24, 193-218	18	34
124	Industrial Agents in the Era of Service-Oriented Architectures and Cloud-Based Industrial Infrastructures <b>2015</b> , 67-87		20
123	A model and an evolutionary algorithmic approach towards optimization of Electric Vehicle fleet charging <b>2015</b> ,		3
122	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
121	Charging optimization of enterprise electric vehicles for participation in demand response <b>2015</b> ,		3
120	Industrial Agents Cybersecurity <b>2015</b> , 109-120		9
119	A Survey on Factors that Impact Industrial Agent Acceptance <b>2015</b> , 401-429		8
118	Applications and Markets for Cooperating Objects. <i>Springer Briefs in Electrical and Computer Engineering</i> , <b>2014</b> ,	0.4	6
117	Trends and Challenges for Cloud-Based Industrial Cyber-Physical Systems <b>2014</b> , 231-240		15
116	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
115	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
114	Industrial Cloud-Based Cyber-Physical Systems <b>2014</b> ,		143
113	IMC-AESOP outcomes: Paving the way to collaborative manufacturing systems <b>2014</b> ,		25

112	Self-forecasting energy-load stakeholders <b>2014</b> ,		1
111	Investigating Electric Vehicles as a promising alternative to static storage solutions <b>2014</b> ,		4
110	Promising Technologies for SOA-Based Industrial Automation Systems <b>2014</b> , 89-109		6
109	Next Generation of Engineering Methods and Tools for SOA-Based Large-Scale and Distributed Process Applications <b>2014</b> , 137-165		7
108	The Cloud of Things Empowered Smart Grid Cities. <i>Internet of Things</i> , <b>2014</b> , 129-142	1.3	3
107	Smart Houses in the Smart Grid: Developing an interactive network.. <i>IEEE Electrification Magazine</i> , <b>2014</b> , 2, 81-93	2.6	36
106	Towards the Next Generation of Industrial Cyber-Physical Systems <b>2014</b> , 1-22		29
105	State of the Art in Industrial Automation <b>2014</b> , 23-47		16
104	The IMC-AESOP Architecture for Cloud-Based Industrial Cyber-Physical Systems <b>2014</b> , 49-88		24
103	Migration of SCADA/DCS Systems to the SOA Cloud <b>2014</b> , 111-135		7
102	Plant Energy Management <b>2014</b> , 203-218		5
101	Markets for Cooperating Objects. <i>Springer Briefs in Electrical and Computer Engineering</i> , <b>2014</b> , 99-115	0.4	
100	Deployment and Management of Cooperating Objects. <i>Springer Briefs in Electrical and Computer Engineering</i> , <b>2014</b> , 13-38	0.4	
99	Performance assessment of integration in the cloud of things via web services <b>2013</b> ,		10
98	The Future Internet. <i>Lecture Notes in Computer Science</i> , <b>2013</b> ,	0.9	10
97	Smart houses in the smart grid and the search for value-added services in the cloud of things era <b>2013</b> ,		14
96	Evaluation of the scalability of an energy market for Smart Grid neighborhoods <b>2013</b> ,		2
95	A comparative analysis of smart metering data aggregation performance <b>2013</b> ,		6

94	Developing a web application for monitoring and management of Smart Grid neighborhoods <b>2013,</b>		3
93	Assessment of an enterprise energy service platform in a Smart Grid city pilot <b>2013,</b>		3
92	Impact assessment of smart meter grouping on the accuracy of forecasting algorithms <b>2013,</b>		12
91	<b>2013,</b>		37
90	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
89	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
88	Using a 6LoWPAN smart meter mesh network for event-driven monitoring of power quality <b>2012,</b>		5
87	Towards business processes orchestrating the physical enterprise with wireless sensor networks <b>2012,</b>		16
86	Sensing in power distribution networks via large numbers of smart meters <b>2012,</b>		9
85	<b>2012,</b>		25
84	An energy market for trading electricity in smart grid neighbourhoods <b>2012,</b>		96
83	Energy services for the smart grid city <b>2012,</b>		34
82	A SOA-based architecture for empowering future collaborative cloud-based industrial automation <b>2012,</b>		62
81	Service-oriented SCADA and MES supporting Petri nets based orchestrated automation systems <b>2012,</b>		4
80	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
79	Using flexible energy infrastructures for demand response in a Smart Grid city <b>2012,</b>		17
78	A survey towards understanding residential prosumers in smart grid neighbourhoods <b>2012,</b>		21
77	Decentralized Intelligence in Energy Efficient Power Systems. <i>Energy Systems</i> , <b>2012</b> , 467-486	0.4	2

76	The Emerging Domain of Cooperating Objects. <i>Springer Briefs in Electrical and Computer Engineering</i> , <b>2012</b> ,	0.4	8
75	The Future Internet. <i>Lecture Notes in Computer Science</i> , <b>2012</b> ,	0.9	9
74	Related Concepts. <i>Springer Briefs in Electrical and Computer Engineering</i> , <b>2012</b> , 17-35	0.4	
73	Cyber-Physical Systems in the SmartGrid <b>2011</b> ,		92
72	The Future Internet. <i>Lecture Notes in Computer Science</i> , <b>2011</b> ,	0.9	16
71	Demand Side Management via prosumer interactions in a smart city energy marketplace <b>2011</b> ,		42
70	The Emerging Domain of Cooperating Objects <b>2011</b> ,		17
69	Agent-based mediated control in smart grids <b>2011</b> ,		2
68	Stuxnet worm impact on industrial cyber-physical system security <b>2011</b> ,		198
67	Architecting the next generation of service-based SCADA/DCS system of systems <b>2011</b> ,		69
66	Requirement Considerations for Ubiquitous Integration of Cooperating Objects <b>2011</b> ,		9
65	<b>2011</b> ,		11
64	Assessment of high-performance smart metering for the web service enabled smart grid era <b>2011</b> ,		8
63	<b>2011</b> ,		5
62	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	
61	NOBEL DA 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	0.2	4
60	Event-driven IPv6 communication for the smart grid infrastructure <b>2011</b> ,		4
59	A migration approach towards a SOA-based next generation process control and monitoring <b>2011</b> ,		28

58	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
57	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
56	Evaluating the potential of a service oriented infrastructure for the factory of the future <b>2010</b> ,		13
55	Predicting Energy Measurements of Service-Enabled Devices in the Future Smartgrid <b>2010</b> ,		2
54	Towards an architecture for service-oriented process monitoring and control <b>2010</b> ,		48
53	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
52	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
51	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
50	Dynamic e-Maintenance in the era of SOA-ready device dominated industrial environments <b>2010</b> , 411-419		7
49	Reliable execution of business processes on dynamic networks of service-enabled devices <b>2009</b> ,		1
48	<b>2009</b> ,		13
47	Energy efficiency driven process analysis and optimization in discrete manufacturing <b>2009</b> ,		22
46	The Internet of Things in an Enterprise Context. <i>Lecture Notes in Computer Science</i> , <b>2009</b> , 14-28	0.9	154
45	Simulation of a Smart Grid City with Software Agents <b>2009</b> ,		83
44	SOA-Based Integration of the Internet of Things in Enterprise Services <b>2009</b> ,		182
43	Using multi-agent systems to simulate dynamic infrastructures populated with large numbers of web service enabled devices <b>2009</b> ,		9
42	Towards the energy efficient future factory <b>2009</b> ,		30
41	Discovery and On-demand Provisioning of Real-World Web Services <b>2009</b> ,		5



40	Smart houses for a smart grid <b>2009</b> ,	10
39	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
38	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
37	Wenn der Windpark mit der Waschmaschine redet□ <i>Wirtschaftsinformatik &amp; Management</i> , <b>2009</b> , 1, 30-34 0.2	
36	Towards Autonomic Infrastructures via Mobile Agents and Active Networks <b>2009</b> , 642-649	
35	Universal Approach to Mobile Payments <b>2009</b> , 2280-2288	
34	Wesentliche Technologische Eigenschaften und Trends <b>2009</b> , 75-95	1
33	Autonomic Communication <b>2009</b> ,	12
32	An Agent-Based Simulation of SOA-Ready Devices <b>2008</b> ,	16
31	SOCRADES: A Web Service Based Shop Floor Integration Infrastructure. <i>Lecture Notes in Computer Science</i> , <b>2008</b> , 50-67	0.9 108
30	Dynamically Optimized Production Planning Using Cross-Layer SOA <b>2008</b> ,	5
29	Web-service enabled wireless sensors in SOA environments <b>2008</b> ,	7
28	Towards Autonomic Infrastructures via Mobile Agents and Active Networks <b>2008</b> , 633-639	
27	Information Use-Control in E-Government Applications <b>2008</b> , 1926-1934	
26	Maximizing the Business Value of Networked Embedded Systems through Process-Level Integration into Enterprise Software <b>2007</b> ,	11
25	Integration of SOA-ready networked embedded devices in enterprise systems via a cross-layered web service infrastructure <b>2007</b> ,	70
24	Information Use-Control in E-Government Applications <b>2007</b> , 1076-1082	1
23	An Advanced Metering Infrastructure for Future Energy Networks <b>2007</b> , 597-606	35

22	Instant Messaging Enabled Mobile Payments <b>2006</b> , 349-366		
21	Universal Approach to Mobile Payments <b>2006</b> , 1114-1119		
20	A roadmap for research in mobile business. <i>International Journal of Mobile Communications</i> , <b>2005</b> , 3, 350-362		28
19	Security-enabled code deployment for heterogeneous networks. <i>Computer Standards and Interfaces</i> , <b>2005</b> , 27, 547-560		3-5
18	SeMoPS <b>2005</b> , 236-262		
17	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
16	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
15	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
14	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
13	SEMOPS: design of a new payment service <b>2003</b> ,		10
12	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
11	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		
10	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
9	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
8	Security implications of implementing active network infrastructures using agent technology. <i>Computer Networks</i> , <b>2001</b> , 36, 87-100	5.4	8
7	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
6	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
5	Agent Based Security for the Active Network Infrastructure. <i>Lecture Notes in Computer Science</i> , <b>1999</b> , 330-344	0.9	2

4	The European perspective on mobile payments		2
3	Place oriented virtual private networks		2
2	Engineering ethical behaviors in autonomous industrial cyber-physical human systems. <i>Cognition, Technology and Work</i> ,1	2.9	8
1	Symbiosis with artificial intelligence via the prism of law, robots, and society. <i>Artificial Intelligence and Law</i> ,1	2.2	5