

# Thomas Newe

## 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.

103  
papers

1,014  
citations

16  
h-index

28  
g-index

129  
ext. papers

1,301  
ext. citations

2.1  
avg, IF

4.73  
L-index

#	Paper	IF	Citations
103	A Simulated and Experimental Analysis of Evaporation Duct Effects on Microwave Communications in the Irish Sea. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2022</b> , 1-1	4.9	1
102	Enabling secure time-series data sharing via homomorphic encryption in cloud-assisted IIoT. <i>Future Generation Computer Systems</i> , <b>2022</b> , 133, 351-363	7.5	1
101	Industrial IoT, Cyber Threats, and Standards Landscape: Evaluation and Roadmap. <i>Sensors</i> , <b>2021</b> , 21,	3.8	11
100	Integration of an MES and AIV Using a LabVIEW Middleware Scheduler Suitable for Use in Industry 4.0 Applications. <i>Applied Sciences (Switzerland)</i> , <b>2020</b> , 10, 7054	2.6	2
99	Challenges Associated with Implementing 5G in Manufacturing. <i>Telecom</i> , <b>2020</b> , 1, 48-67	1.8	31
98	Secure Hash Algorithm-3(SHA-3) implementation on Xilinx FPGAs, Suitable for IoT Applications. <i>International Journal on Smart Sensing and Intelligent Systems</i> , <b>2020</b> , 7, 1-6	0.4	7
97	Hybrid Multi-Cloud Demystifying SLAs for Smart City Enterprises Using IoT Applications. <i>Advances in Computer and Electrical Engineering Book Series</i> , <b>2020</b> , 52-67	0.3	1
96	Comparison and overview of Wireless sensor network systems for Medical Applications. <i>International Journal on Smart Sensing and Intelligent Systems</i> , <b>2020</b> , 7, 1-6	0.4	0
95	Marine based Wireless Sensor Networks: Challenges and Requirements. <i>International Journal on Smart Sensing and Intelligent Systems</i> , <b>2020</b> , 7, 1-5	0.4	
94	A multi-wavelength discriminating sensor with a wireless mote interface for aquatic pollution monitoring. <i>International Journal on Smart Sensing and Intelligent Systems</i> , <b>2020</b> , 7, 1-4	0.4	2
93	Hybrid Cloud SLAs for Industry 4.0: Bridging the Gap. <i>Annals of Emerging Technologies in Computing</i> , <b>2020</b> , 4, 41-60	1.2	1
92	Real-Time Secure/Unsecure Video Latency Measurement/Analysis with FPGA-Based Bump-in-the-Wire Security. <i>Sensors</i> , <b>2019</b> , 19,	3.8	1
91	Federated Hybrid Clouds Service Level Agreements and Legal Issues. <i>Advances in Intelligent Systems and Computing</i> , <b>2019</b> , 471-486	0.4	2
90	Remote acoustic analysis for tool condition monitoring. <i>Procedia Manufacturing</i> , <b>2019</b> , 38, 840-847	1.5	2
89	Integration of autonomous intelligent vehicles into manufacturing environments: Challenges. <i>Procedia Manufacturing</i> , <b>2019</b> , 38, 1683-1690	1.5	3
88	An Experimental Study of the Effects of the Evaporation Duct on Microwave Propagation <b>2019</b> ,		1
87	A comparative study of Image Filters and Machine Learning for use in Machined Part Recognition <b>2019</b> ,		1

86	Object recognition within smart manufacturing. <i>Procedia Manufacturing</i> , <b>2019</b> , 38, 408-414	1.5	11
85	An Overview of Popular Digital Image Processing Filtering Operations <b>2019</b> ,		2
84	Securing future decentralised industrial IoT infrastructures: Challenges and free open source solutions. <i>Future Generation Computer Systems</i> , <b>2019</b> , 93, 596-608	7.5	17
83	Bump in the wire (BITW) security solution for a marine ROV remote control application. <i>Journal of Information Security and Applications</i> , <b>2018</b> , 38, 111-121	3.5	2
82	An efficient implementation of FPGA based high speed IPSec (AH/ESP) core. <i>International Journal of Internet Protocol Technology</i> , <b>2018</b> , 11, 97	0.3	1
81	Motion artefact minimization from photoplethysmography based non-invasive hemoglobin sensor based on an envelope filtering algorithm. <i>Measurement: Journal of the International Measurement Confederation</i> , <b>2018</b> , 115, 288-298	4.6	9
80	<b>2018</b> ,		3
79	Real-Time Video Latency Measurement between a Robot and Its Remote Control Station: Causes and Mitigation. <i>Wireless Communications and Mobile Computing</i> , <b>2018</b> , 2018, 1-19	1.9	6
78	Hybrid Cloud Computing QoS Glitches <b>2018</b> ,		1
77	Can IoT escape Cloud QoS and Cost Pitfalls <b>2018</b> ,		3
76	Stereo Vision Sensing: Review of existing systems <b>2018</b> ,		9
75	Automated Ground Vehicle (AGV) and Sensor Technologies- A Review <b>2018</b> ,		14
74	High Bandwidth Maritime Communication Systems [Review of Existing Solutions and New Proposals <b>2018</b> ,		4
73	Bloom filter based data collection algorithm for wireless sensor networks <b>2017</b> ,		4
72	Foreword by Guest Editors for the Special Issue on the 2016 Global Conference on Wireless and Optical Communications (GCWOC16). <i>Wireless Personal Communications</i> , <b>2017</b> , 95, 215-221	1.9	
71	Reconfiguration of neighbouring nodes in coastal monitoring wireless sensor networks based on leader node recommendation <b>2017</b> ,		2
70	A secure end-to-end IoT solution. <i>Sensors and Actuators A: Physical</i> , <b>2017</b> , 263, 291-299	3.9	21
69	Trust security mechanism for maritime wireless sensor networks. <i>Concurrency Computation Practice and Experience</i> , <b>2017</b> , 29, e3945	1.4	0

68	Bloom filter based efficient broadcast algorithm for the Internet of things. <i>International Journal of Distributed Sensor Networks</i> , <b>2017</b> , 13, 155014771774974	1.7	1
67	Cloud computing and Internet of Things fusion: Cost issues <b>2017</b> ,		6
66	Implementing Secure Key Coordination Scheme for Line Topology Wireless Sensor Networks <b>2017</b> ,		1
65	Inspection-Class Remotely Operated Vehicles: A Review. <i>Journal of Marine Science and Engineering</i> , <b>2017</b> , 5, 13	2.4	64
64	An Optical Fibre Depth (Pressure) Sensor for Remote Operated Vehicles in Underwater Applications. <i>Sensors</i> , <b>2017</b> , 17,	3.8	16
63	An Experimental Study of the Effects of External Physiological Parameters on the Photoplethysmography Signals in the Context of Local Blood Pressure (Hydrostatic Pressure Changes). <i>Sensors</i> , <b>2017</b> , 17,	3.8	6
62	Underwater Depth and Temperature Sensing Based on Fiber Optic Technology for Marine and Fresh Water Applications. <i>Sensors</i> , <b>2017</b> , 17,	3.8	34
61	Efficient and High Speed FPGA Bump in the Wire Implementation for Data Integrity and Confidentiality Services in the IoT. <i>Smart Sensors, Measurement and Instrumentation</i> , <b>2017</b> , 259-285	0.3	3
60	Cluster head election and rotation for medical-based wireless sensor networks <b>2017</b> ,		2
59	An FPGA-based reconfigurable IPsec AH core with efficient implementation of SHA-3 for high speed IoT applications. <i>Security and Communication Networks</i> , <b>2016</b> , 9, 3282-3295	1.9	4
58	High Speed Implementation of a SHA-3 Core on Virtex-5 and Virtex-6 FPGAs. <i>Journal of Circuits, Systems and Computers</i> , <b>2016</b> , 25, 1650069	0.9	5
57	Tenant - Vendor and Third-Party Agreements for the Cloud: Considerations for Security Provision. <i>International Journal of Software Engineering and Its Applications</i> , <b>2016</b> , 10, 449-460	0.1	3
56	Defence against Black Hole and Selective Forwarding Attacks for Medical WSNs in the IoT. <i>Sensors</i> , <b>2016</b> , 16,	3.8	46
55	Secure and Efficient Key Coordination Algorithm for Line Topology Network Maintenance for Use in Maritime Wireless Sensor Networks. <i>Sensors</i> , <b>2016</b> , 16,	3.8	5
54	An FPGA based reconfigurable IPsec ESP core suitable for IoT applications <b>2016</b> ,		6
53	Memory storage administration of security encryption keys for line topology in maritime wireless sensor networks <b>2016</b> ,		2
52	Review and evaluation of WSN simulation tools in a cloud based environment <b>2016</b> ,		1
51	Medical WSN: Power, routing and selective forwarding defense <b>2015</b> ,		2

50	AES implementation on Xilinx FPGAs suitable for FPGA based WBSNs <b>2015</b> ,		6
49	Medical WSN: Defense for selective forwarding attack <b>2015</b> ,		2
48	<b>2015</b> ,		5
47	Trust Security Mechanism for Marine Wireless Sensor Networks <b>2015</b> ,		3
46	<b>2015</b> ,		1
45	Healthcare WSN: Cluster Elections and Selective Forwarding Defense <b>2015</b> ,		4
44	Efficient High Speed Implementation of Secure Hash Algorithm-3 on Virtex-5 FPGA <b>2014</b> ,		3
43	Underwater pressure measurement using fibre optic extrinsic Fabry-Perot interferometric (EFPI) sensors <b>2014</b> ,		1
42	Novel miniature pressure and temperature optical fibre sensor based on an extrinsic Fabry-Perot Interferometer (EFPI) and Fibre Bragg Gratings (FBG) for the Ocean environment <b>2014</b> ,		4
41	A Lightweight Classification Algorithm for External Sources of Interference in IEEE 802.15.4-Based Wireless Sensor Networks Operating at the 2.4 GHz. <i>International Journal of Distributed Sensor Networks</i> , <b>2014</b> , 10, 265286	1.7	8
40	Logically Optimized Smallest FPGA Architecture for SHA- 3 Core. <i>Communications in Computer and Information Science</i> , <b>2014</b> , 195-203	0.3	
39	Wireless Sensor Node Hardware <b>2014</b> , 1-15		1
38	A Mote Interface for Fiber Optic Spectral Sensing With Real-Time Monitoring of the Marine Environment. <i>IEEE Sensors Journal</i> , <b>2013</b> , 13, 2619-2625	4	4
37	Prototype of a secure wireless patient monitoring system for the medical community. <i>Sensors and Actuators A: Physical</i> , <b>2012</b> , 173, 55-65	3.9	17
36	2.4 GHz IEEE 802.15.4 channel interference classification algorithm running live on a sensor node <b>2012</b> ,		10
35	Configuration Tool for a Wireless Sensor Network Integrated Security Framework. <i>Journal of Network and Systems Management</i> , <b>2012</b> , 20, 417-452	2.1	10
34	Formal Verification of a Key Agreement Protocol for Wireless Sensor Networks <b>2012</b> ,		3
33	Coexistence measurements and analysis of IEEE 802.15.4 with Wi-Fi and bluetooth for vehicle networks <b>2012</b> ,		10

32	Competition at the Wireless Sensor Network MAC Layer: Low Power Probing interfering with X-MAC. <i>Journal of Physics: Conference Series</i> , <b>2011</b> , 307, 012038	0.3	1
31	Planning with parents for seriously ill children: preliminary results on the development of the parental engagement scale. <i>Palliative and Supportive Care</i> , <b>2011</b> , 9, 367-76	2.5	7
30	Low cost hydrocarbon spillage sensor for the marine environment with interfacing to a mote platform <b>2011</b> ,		1
29	MArSSeNs: A modular architecture for the security of sensor networks <b>2011</b> ,		1
28	Optical fibre cavity for ring-down experiments with low coupling losses. <i>Measurement Science and Technology</i> , <b>2010</b> , 21, 094034	2	18
27	Security for Wireless Sensor Networks [Configuration Aid. <i>Lecture Notes in Electrical Engineering</i> , <b>2010</b> , 1-24	0.2	2
26	On the (im)possibility of denial of service attacks exploiting authentication overhead in WSNs <b>2009</b> ,		1
25	<b>2009</b> ,		1
24	Development of a prototyping platform for the integration of multiple fiber optic sensing devices to a SHIMMER system for in-situ maritime monitoring. <b>2009</b> ,		1
23	On the implementation and evaluation of an elliptic curve based cryptosystem for Java enabled Wireless Sensor Networks. <i>Sensors and Actuators A: Physical</i> , <b>2009</b> , 156, 394-405	3.9	12
22	A comparative review of wireless sensor network mote technologies <b>2009</b> ,		59
21	Evaluation of key distribution protocols for use with wireless sensor networks <b>2009</b> ,		1
20	Fibre-optic evanescent-wave field fluid concentration sensor <b>2009</b> ,		4
19	Security for wireless sensor networks: A review <b>2009</b> ,		25
18	Selection application for platforms and security protocols suitable for wireless sensor networks. <i>Journal of Physics: Conference Series</i> , <b>2009</b> , 178, 012034	0.3	
17	A tool for the security configuration of sensor networks. <i>Journal of Physics: Conference Series</i> , <b>2009</b> , 178, 012043	0.3	3
16	TDMA Protocol Requirements for Wireless Sensor Networks <b>2008</b> ,		30
15	Wireless Sensor Node hardware: A review <b>2008</b> ,		41

14	<b>2008,</b>			1
13	Investigation of binary liquid aqueous methanol and ethanol mixtures using meander-shaped fibre-optic evanescent-wave absorption sensors <b>2008,</b>			3
12	Organic light-emitting devices (OLEDs) and OLED-based chemical and biological sensors: an overview. <i>Journal Physics D: Applied Physics</i> , <b>2008</b> , 41, 133001	3		223
11	Securing Wireless Sensor Networks: Security Architectures. <i>Journal of Networks</i> , <b>2008</b> , 3,			30
10	Analysis of Hardware Encryption Versus Software Encryption on Wireless Sensor Network Motes. <i>Lecture Notes in Electrical Engineering</i> , <b>2008</b> , 3-14	0.2		15
9	Power Management in Operating Systems for Wireless Sensor Nodes <b>2007,</b>			9
8	On the logical verification of a group key agreement protocol for resource constrained mobile devices <b>2007,</b>			1
7	A Survey of Authentication Mechanisms: Authentication for Ad-Hoc Wireless Sensor Networks <b>2007</b>			4
6	Key handling in wireless sensor networks. <i>Journal of Physics: Conference Series</i> , <b>2007</b> , 76, 012060	0.3		0
5	Efficiently securing data on a wireless sensor network. <i>Journal of Physics: Conference Series</i> , <b>2007</b> , 76, 012063	0.3		19
4	Security Protocols for Use with Wireless Sensor Networks: A Survey of Security Architectures <b>2007,</b>			20
3	<b>2007,</b>			2
2	On the Formal Verification of the SNEP Key Agreement Protocol for Wireless Sensor Networks <b>2007,</b>			1
1	Realisation of a minimum-knowledge identification and signature scheme. <i>Computers and Security</i> , <b>1998</b> , 17, 253-264	4.9		1