

Frank Golatowski

List of Publications by Year in descending order

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92
papers

1,279
citations

1684188

5
h-index

1281871

11
g-index

93
all docs

93
docs citations

93
times ranked

1055
citing authors

#	ARTICLE	IF	CITATIONS
1	Service-Oriented Medical Device Connectivity: Particular Interoperability Standards for High Frequency Surgical Equipment and External Control Devices. <i>Current Directions in Biomedical Engineering</i> , 2021, 7, 523-526.	0.4	1
2	Evaluation and Extension of OPC UA Publish/Subscribe MQTT Binding. , 2020, , .		2
3	Automatic Configuration of a TSN Network for SDC-based Medical Device Networks. , 2020, , .		6
4	Work-in-Progress: Towards an International Data Spaces Connector for the Internet of Things. , 2020, , .		9
5	An OPC UA-based Crane Model Using Time-Sensitive Networking Technology. , 2020, , .		0
6	Comparison of Ultra-Wideband Range Processing and Filtering for Indoor Localization. , 2020, , .		0
7	Step Detection through Ultra-Low Complexity Zero Crossing Analysis. , 2020, , .		2
8	Challenges and Research Directions for Blockchains in the Internet of Things. , 2019, , .		7
9	Low-complexity online correction and calibration of pedestrian dead reckoning using map matching and GPS. <i>Geo-Spatial Information Science</i> , 2019, 22, 114-127.	5.3	5
10	Performance Analysis of a Secured BACnet/IP Network. , 2019, , .		2
11	Enabling artificial intelligence in high acuity medical environments. <i>Minimally Invasive Therapy and Allied Technologies</i> , 2019, 28, 120-126.	1.2	12
12	From IEEE 11073 SDC Device Specializations to Assistive Systems: Rule-based Data Analysis for Minimal Invasive Surgery. , 2019, , .		2
13	Evaluating the Synergy of Relative and Absolute Indoor Localization in Industrial Spaces. , 2019, , .		2
14	Software-Defined Security Architecture for Smart Buildings using the Building Information Model. , 2019, , .		2
15	Evaluation of LoRa Technology for Vehicle and Asset Tracking in Smart Harbors. , 2019, , .		10
16	Integration Approach for Communications-Based Train Control Applications in a High Assurance Security Architecture. <i>Lecture Notes in Computer Science</i> , 2019, , 272-283.	1.3	0
17	OR.NET: a service-oriented architecture for safe and dynamic medical device interoperability. <i>Biomedizinische Technik</i> , 2018, 63, 11-30.	0.8	49
18	OR.NET " secure dynamic networks in the operating room and clinic. <i>Biomedizinische Technik</i> , 2018, 63, 1-3.	0.8	6

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19	OR.NET RT: how service-oriented medical device architecture meets real-time communication. Biomedizinische Technik, 2018, 63, 81-93.	0.8	4
20	Strategy for Security Certification of High Assurance Industrial Automation and Control Systems. , 2018, , .		3
21	A fusion approach for the localization of humans in factory environments. , 2018, , .		4
22	Evaluation of a formalized encryption library for safety-critical embedded systems. , 2017, , .		1
23	IPv6 over Low-Power Wireless Personal Area Networks (6LoWPAN) and Constrained Application Protocol (CoAP). , 2017, , 38-1-38-13.		2
24	A safe and interoperable distributed alarm notification system for PoC medical devices using IEEE 11073 SDC. , 2017, , .		1
25	A survey on information modeling and ontologies in building automation. , 2017, , .		20
26	Measuring latencies of IEEE 11073 compliant service-oriented medical device stacks. , 2017, , .		6
27	Mechanism for safe remote activation of networked surgical and PoC devices using dynamic assignable controls. , 2016, 2016, 2390-2394.		6
28	Applying the BaaS reference architecture on different classes of devices. , 2016, , .		0
29	Point-of-care medical devices and systems interoperability: A mapping of ICE and FHIR. , 2016, , .		6
30	Dynamic remote control through service orchestration of point-of-care and surgical devices based on IEEE 11073 SDC. , 2016, , .		5
31	Secure privacy preserving information beacons for public transportation systems. , 2016, , .		6
32	A Distributed Time Server for the Real-Time Extension of CoAP. , 2016, , .		7
33	Towards a TDMA-based real-time extension for the constrained application protocol. , 2016, , .		1
34	Microservices approach for the internet of things. , 2016, , .		125
35	Extending the IEEE 11073-1010X nomenclature for the modelling of surgical devices. , 2016, , .		5
36	DuDE-Cloud: A resilient high performance cloud. , 2015, , .		0

#	ARTICLE	IF	CITATIONS
37	Medical DPWS: New IEEE 11073 standard for safe and interoperable medical device communication. , 2015, , .		20
38	New IEEE 11073 standards for interoperable, networked point-of-care Medical Devices. , 2015, 2015, 1721-4.		31
39	A BACnet gateway for embedded Web services. , 2015, , .		3
40	Emulation of SDN-supported automation networks. , 2015, , .		4
41	Cost-efficient universal approach for remote meter reading using web services and computer vision. , 2015, , .		2
42	Real-Time Communication for the Internet of Things Using jCoAP. , 2015, , .		17
43	CoHaRT: A P2P-based deterministic transmission of large data amounts using CoAP. , 2015, , .		2
44	A Parametric Dataflow Model for the Speed and Distance Monitoring in Novel Train Control Systems. Lecture Notes in Computer Science, 2015, , 56-66.	1.3	1
45	A model based development approach for building automation systems. , 2014, , .		15
46	A DHT-Based Scalable Approach for Device and Service Discovery. , 2014, , .		3
47	Real-time capable hardware-based parser for efficient XML interchange. , 2014, , .		3
48	Survey on real-time communication via ethernet in industrial automation environments. , 2014, , .		72
49	Beyond 6LoWPAN: Web Services in Wireless Sensor Networks. IEEE Transactions on Industrial Informatics, 2013, 9, 1795-1805.	11.3	38
50	Optimization of ad hoc device and service discovery in large scale networks. , 2013, , .		0
51	uRun. , 2013, , 314-334.		0
52	Investigation of the use of embedded Web Services in smart metering applications. , 2012, , .		13
53	A Web service-based communication architecture for smartphone/WPAN sensor ensembles. , 2012, , .		1
54	Connecting the web with the web of things: lessons learned from implementing a CoAP-HTTP proxy. , 2012, , .		15

#	ARTICLE	IF	CITATIONS
55	A Lightweight SOAP over CoAP Transport Binding for Resource Constraint Networks. , 2011, , .		24
56	Implementing powerful Web Services for highly resource-constrained devices. , 2011, , .		19
57	Requirements for smart home applications and realization with WS4D-PipesBox. , 2011, , .		9
58	A CoAP based SOAP transport binding. , 2011, , .		1
59	Towards a Platform for User-Generated Mobile Services. , 2010, , .		5
60	Towards component orientation in embedded Web Service environments. , 2010, , .		2
61	Encoding and Compression for the Devices Profile for Web Services. , 2010, , .		25
62	Devices Profile for Web Services and the REST. , 2010, , .		15
63	WS4D: Toolkits for Networked Embedded Systems Based on the Devices Profile for Web Services. , 2010, , .		32
64	encDPWS - message encoding of SOAP Web Services. , 2010, , .		3
65	Wireless Sensor Networks in Life Science applications. , 2010, , .		1
66	Generic platform for advanced E-health applications. , 2010, , .		4
67	Location Based Wireless Sensor Services in Life Science Automation. Lecture Notes in Computer Science, 2010, , 82-93.	1.3	4
68	Differences and Commonalities of Service-Oriented Device Architectures, Wireless Sensor Networks and Networks-on-Chip. , 2009, , .		2
69	Exploiting Malicious Node Detection for Lifetime Extension of Sensor Networks. , 2009, , .		2
70	Generic sensor network gateway architecture for plug and play data management in smart laboratory environments. , 2009, , .		5
71	Adaptation of resource-oriented service technologies for industrial informatics. , 2009, , .		3
72	Web Services to improve interoperability of home healthcare devices. , 2009, , .		15

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73	Platform and language independent service life cycle management for device centric SOAs. , 2009, , .		0
74	Devices Profile for Web Services in Wireless Sensor Networks: Adaptations and enhancements. , 2009, , .		17
75	Web Services for Embedded Devices. Industrial Information Technology Series, 2009, , 19-1-19-31.	0.2	1
76	Device and service templates for the Devices Profile for Web Services. , 2008, , .		9
77	Real-time service-oriented communication protocols on resource constrained devices. Proceedings of the International Multiconference on Computer Science and Information Technology, 2008, , .	0.0	7
78	Web services on deeply embedded devices with real-time processing. , 2008, , .		23
79	WS-BPEL Process Compiler for Resource-Constrained Embedded Systems. , 2008, , .		2
80	A Context Aware Service-Oriented Maintenance System for the B2B Sector. , 2008, , .		7
81	Dynamic device and service discovery extensions for WS-BPEL. , 2008, , .		6
82	Applicability of Web Service Technologies to Reach Real Time Capabilities. , 2008, , .		9
83	Service-Oriented Architectures for Embedded Systems Using Devices Profile for Web Services. , 2007, , .		61
84	Weighted Centroid Localization in Zigbee-based Sensor Networks. , 2007, , .		338
85	Lessons learned from implementing the Devices Profile for Web Services. , 2007, , .		20
86	Bluetooth Device Manager Connecting a Large Number of Resource-Constraint Devices in a Service-Oriented Bluetooth Network. Lecture Notes in Computer Science, 2005, , 430-437.	1.3	2
87	Using Hartstone Uniprocessor Benchmark in a real-time systems course. , 0, , .		6
88	Scheduling coprocessor for enhanced least-laxity-first scheduling in hard real-time systems. , 0, , .		26
89	Integration of Java processor core JSM into SmartDev(ices). , 0, , .		0
90	Framework for validation, test and analysis of real-time scheduling algorithms and scheduler implementations. , 0, , .		6

#	ARTICLE	IF	CITATIONS
91	Controlling wireless sensor networks using SeNeTs and envisense. , 0, , .		4
92	Enabling workflow in UPNP networks. , 0, , .		4