

# Frank Golatowski

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7587444/publications.pdf>

Version: 2024-02-01

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	Weighted Centroid Localization in Zigbee-based Sensor Networks. , 2007, , .		338
2	Microservices approach for the internet of things. , 2016, , .		125
3	Survey on real-time communication via ethernet in industrial automation environments. , 2014, , .		72
4	Service-Oriented Architectures for Embedded Systems Using Devices Profile for Web Services. , 2007, , .		61
5	OR.NET: a service-oriented architecture for safe and dynamic medical device interoperability. Biomedizinische Technik, 2018, 63, 11-30.	0.8	49
6	Beyond 6LoWPAN: Web Services in Wireless Sensor Networks. IEEE Transactions on Industrial Informatics, 2013, 9, 1795-1805.	11.3	38
7	WS4D: Toolkits for Networked Embedded Systems Based on the Devices Profile for Web Services. , 2010, , .		32
8	New IEEE 11073 standards for interoperable, networked point-of-care Medical Devices. , 2015, 2015, 1721-4.		31
9	Scheduling coprocessor for enhanced least-laxity-first scheduling in hard real-time systems. , 0, , .		26
10	Encoding and Compression for the Devices Profile for Web Services. , 2010, , .		25
11	A Lightweight SOAP over CoAP Transport Binding for Resource Constraint Networks. , 2011, , .		24
12	Web services on deeply embedded devices with real-time processing. , 2008, , .		23
13	Lessons learned from implementing the Devices Profile for Web Services. , 2007, , .		20
14	Medical DPWS: New IEEE 11073 standard for safe and interoperable medical device communication. , 2015, , .		20
15	A survey on information modeling and ontologies in building automation. , 2017, , .		20
16	Implementing powerful Web Services for highly resource-constrained devices. , 2011, , .		19
17	Devices Profile for Web Services in Wireless Sensor Networks: Adaptations and enhancements. , 2009, , .		17
18	Real-Time Communication for the Internet of Things Using jCoAP. , 2015, , .		17

#	ARTICLE	IF	CITATIONS
19	Web Services to improve interoperability of home healthcare devices. , 2009, , .		15
20	Devices Profile for Web Services and the REST. , 2010, , .		15
21	Connecting the web with the web of things: lessons learned from implementing a CoAP-HTTP proxy. , 2012, , .		15
22	A model based development approach for building automation systems. , 2014, , .		15
23	Investigation of the use of embedded Web Services in smart metering applications. , 2012, , .		13
24	Enabling artificial intelligence in high acuity medical environments. Minimally Invasive Therapy and Allied Technologies, 2019, 28, 120-126.	1.2	12
25	Evaluation of LoRa Technology for Vehicle and Asset Tracking in Smart Harbors. , 2019, , .		10
26	Device and service templates for the Devices Profile for Web Services. , 2008, , .		9
27	Applicability of Web Service Technologies to Reach Real Time Capabilities. , 2008, , .		9
28	Requirements for smart home applications and realization with WS4D-PipesBox. , 2011, , .		9
29	Work-in-Progress: Towards an International Data Spaces Connector for the Internet of Things. , 2020, , .		9
30	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
31	A Context Aware Service-Oriented Maintenance System for the B2B Sector. , 2008, , .		7
32	A Distributed Time Server for the Real-Time Extension of CoAP. , 2016, , .		7
33	Challenges and Research Directions for Blockchains in the Internet of Things. , 2019, , .		7
34	Using Hartstone Uniprocessor Benchmark in a real-time systems course. , 0, , .		6
35	Framework for validation, test and analysis of real-time scheduling algorithms and scheduler implementations. , 0, , .		6
36	Dynamic device and service discovery extensions for WS-BPEL. , 2008, , .		6

#	ARTICLE	IF	CITATIONS
37	Mechanism for safe remote activation of networked surgical and PoC devices using dynamic assignable controls. , 2016, 2016, 2390-2394.		6
38	Point-of-care medical devices and systems interoperability: A mapping of ICE and FHIR. , 2016, , .		6
39	Secure privacy preserving information beacons for public transportation systems. , 2016, , .		6
40	Measuring latencies of IEEE 11073 compliant service-oriented medical device stacks. , 2017, , .		6
41	OR.NET â€“ secure dynamic networks in the operating room and clinic. Biomedizinische Technik, 2018, 63, 1-3.	0.8	6
42	Automatic Configuration of a TSN Network for SDC-based Medical Device Networks. , 2020, , .		6
43	Generic sensor network gateway architecture for plug and play data management in smart laboratory environments. , 2009, , .		5
44	Towards a Platform for User-Generated Mobile Services. , 2010, , .		5
45	Dynamic remote control through service orchestration of point-of-care and surgical devices based on IEEE 11073 SDC. , 2016, , .		5
46	Extending the IEEE 11073-1010X nomenclature for the modelling of surgical devices. , 2016, , .		5
47	Low-complexity online correction and calibration of pedestrian dead reckoning using map matching and GPS. Geo-Spatial Information Science, 2019, 22, 114-127.	5.3	5
48	Controlling wireless sensor networks using SeNeTs and envisense. , 0, , .		4
49	Enabling workflow in UPNP networks. , 0, , .		4
50	Generic platform for advanced E-health applications. , 2010, , .		4
51	Emulation of SDN-supported automation networks. , 2015, , .		4
52	OR.NET RT: how service-oriented medical device architecture meets real-time communication. Biomedizinische Technik, 2018, 63, 81-93.	0.8	4
53	A fusion approach for the localization of humans in factory environments. , 2018, , .		4
54	Location Based Wireless Sensor Services in Life Science Automation. Lecture Notes in Computer Science, 2010, , 82-93.	1.3	4

#	ARTICLE	IF	CITATIONS
55	Adaptation of resource-oriented service technologies for industrial informatics. , 2009, , .		3
56	encDPWS - message encoding of SOAP Web Services. , 2010, , .		3
57	A DHT-Based Scalable Approach for Device and Service Discovery. , 2014, , .		3
58	Real-time capable hardware-based parser for efficient XML interchange. , 2014, , .		3
59	A BACnet gateway for embedded Web services. , 2015, , .		3
60	Strategy for Security Certification of High Assurance Industrial Automation and Control Systems. , 2018, , .		3
61	WS-BPEL Process Compiler for Resource-Constrained Embedded Systems. , 2008, , .		2
62	Differences and Commonalities of Service-Oriented Device Architectures, Wireless Sensor Networks and Networks-on-Chip. , 2009, , .		2
63	Exploiting Malicious Node Detection for Lifetime Extension of Sensor Networks. , 2009, , .		2
64	Towards component orientation in embedded Web Service environments. , 2010, , .		2
65	Cost-efficient universal approach for remote meter reading using web services and computer vision. , 2015, , .		2
66	CoHaRT: A P2P-based deterministic transmission of large data amounts using CoAP. , 2015, , .		2
67	IPv6 over Low-Power Wireless Personal Area Networks (6LoWPAN) and Constrained Application Protocol (CoAP). , 2017, , 38-1-38-13.		2
68	Performance Analysis of a Secured BACnet/IP Network. , 2019, , .		2
69	From IEEE 11073 SDC Device Specializations to Assistive Systems: Rule-based Data Analysis for Minimal Invasive Surgery. , 2019, , .		2
70	Evaluating the Synergy of Relative and Absolute Indoor Localization in Industrial Spaces. , 2019, , .		2
71	Software-Defined Security Architecture for Smart Buildings using the Building Information Model. , 2019, , .		2
72	Evaluation and Extension of OPC UA Publish/Subscribe MQTT Binding. , 2020, , .		2

#	ARTICLE	IF	CITATIONS
73	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
74	Step Detection through Ultra-Low Complexity Zero Crossing Analysis. , 2020, , .		2
75	Wireless Sensor Networks in Life Science applications. , 2010, , .		1
76	A CoAP based SOAP transport binding. , 2011, , .		1
77	A Web service-based communication architecture for smartphone/WPAN sensor ensembles. , 2012, , .		1
78	Towards a TDMA-based real-time extension for the constrained application protocol. , 2016, , .		1
79	Evaluation of a formalized encryption library for safety-critical embedded systems. , 2017, , .		1
80	A safe and interoperable distributed alarm notification system for PoC medical devices using IEEE 11073 SDC. , 2017, , .		1
81	Web Services for Embedded Devices. Industrial Information Technology Series, 2009, , 19-1-19-31.	0.2	1
82	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
83	Service-Oriented Medical Device Connectivity: Particular Interoperability Standards for High Frequency Surgical Equipment and External Control Devices. Current Directions in Biomedical Engineering, 2021, 7, 523-526.	0.4	1
84	Integration of Java processor core JSM into SmartDev(ices). , 0, , .		0
85	Platform and language independent service life cycle management for device centric SOAs. , 2009, , .		0
86	Optimization of ad hoc device and service discovery in large scale networks. , 2013, , .		0
87	DuDE-Cloud: A resilient high performance cloud. , 2015, , .		0
88	Applying the BaaS reference architecture on different classes of devices. , 2016, , .		0
89	uRun. , 2013, , 314-334.		0
90	Integration Approach for Communications-Based Train Control Applications in a High Assurance Security Architecture. Lecture Notes in Computer Science, 2019, , 272-283.	1.3	0

#	ARTICLE	IF	CITATIONS
91	An OPC UA-based Crane Model Using Time-Sensitive Networking Technology. , 2020, , .		0
92	Comparison of Ultra-Wideband Range Processing and Filtering for Indoor Localization. , 2020, , .		0