

# Pasi Liljeberg

## List of Publications by Year in descending order

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Version: 2024-02-01

70  
papers

3,180  
citations

279487

23  
h-index

182168

51  
g-index

78  
all docs

78  
docs citations

78  
times ranked

3251  
citing authors

#	ARTICLE	IF	CITATIONS
1	Exploring computation offloading in IoT systems. Information Systems, 2022, 107, 101860.	2.4	10
2	Accuracy Assessment of Oura Ring Nocturnal Heart Rate and Heart Rate Variability in Comparison With Electrocardiography in Time and Frequency Domains: Comprehensive Analysis. Journal of Medical Internet Research, 2022, 24, e27487.	2.1	32
3	Trends in Heart Rate and Heart Rate Variability During Pregnancy and the 3-Month Postpartum Period: Continuous Monitoring in a Free-living Context. JMIR MHealth and UHealth, 2022, 10, e33458.	1.8	13
4	AMSER: Adaptive Multimodal Sensing for Energy Efficient and Resilient eHealth Systems. , 2022, , .		4
5	Edge-Assisted Control for Healthcare Internet of Things. ACM Transactions on Internet of Things, 2021, 2, 1-21.	3.4	10
6	Pregnant womenâ€™s daily patterns of well-being before and during the COVID-19 pandemic in Finland: Longitudinal monitoring through smartwatch technology. PLoS ONE, 2021, 16, e0246494.	1.1	33
7	Long-Term IoT-Based Maternal Monitoring: System Design and Evaluation. Sensors, 2021, 21, 2281.	2.1	36
8	Pain Recognition With Electrocardiographic Features in Postoperative Patients: Method Validation Study. Journal of Medical Internet Research, 2021, 23, e25079.	2.1	18
9	Pain Assessment Tool With Electrodermal Activity for Postoperative Patients: Method Validation Study. JMIR MHealth and UHealth, 2021, 9, e25258.	1.8	28
10	Lightweight Photoplethysmography Quality Assessment for Real-time IoT-based Health Monitoring using Unsupervised Anomaly Detection. Procedia Computer Science, 2021, 184, 140-147.	1.2	27
11	Being â€˜A Google Momâ€™ or securely monitored at home: Perceptions of remote monitoring in maternity care. Journal of Advanced Nursing, 2020, 76, 243-252.	1.5	5
12	RoSA: A Framework for Modeling Self-Awareness in Cyber-Physical Systems. IEEE Access, 2020, 8, 141373-141394.	2.6	9
13	Developing a pain intensity prediction model using facial expression: A feasibility study with electromyography. PLoS ONE, 2020, 15, e0235545.	1.1	13
14	Robust ECG R-peak detection using LSTM. , 2020, , .		32
15	Continuous 7-Month Internet of Thingsâ€™Based Monitoring of Health Parameters of Pregnant and Postpartum Women: Prospective Observational Feasibility Study. JMIR Formative Research, 2020, 4, e12417.	0.7	24
16	Prospective Study Evaluating a Pain Assessment Tool in a Postoperative Environment: Protocol for Algorithm Testing and Enhancement. JMIR Research Protocols, 2020, 9, e17783.	0.5	10
17	Sleep Tracking of a Commercially Available Smart Ring and Smartwatch Against Medical-Grade Actigraphy in Everyday Settings: Instrument Validation Study. JMIR MHealth and UHealth, 2020, 8, e20465.	1.8	76
18	Acute pain intensity monitoring with the classification of multiple physiological parameters. Journal of Clinical Monitoring and Computing, 2019, 33, 493-507.	0.7	55

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19	Personalized Maternal Sleep Quality Assessment: An Objective IoT-based Longitudinal Study. IEEE Access, 2019, 7, 93433-93447.	2.6	36
20	Energy-efficient and Reliable Wearable Internet-of-Things through Fog-Assisted Dynamic Goal Management. Procedia Computer Science, 2019, 151, 493-500.	1.2	14
21	A Real-time PPG Quality Assessment Approach for Healthcare Internet-of-Things. Procedia Computer Science, 2019, 151, 551-558.	1.2	51
22	Missing data resilient decision-making for healthcare IoT through personalization: A case study on maternal health. Future Generation Computer Systems, 2019, 96, 297-308.	4.9	75
23	Skin Conductance Response to Gradual-Increasing Experimental Pain. , 2019, 2019, 3482-3485.		6
24	Feasibility of smart wristbands for continuous monitoring during pregnancy and one month after birth. BMC Pregnancy and Childbirth, 2019, 19, 34.	0.9	56
25	Energy efficient fog-assisted IoT system for monitoring diabetic patients with cardiovascular disease. Future Generation Computer Systems, 2019, 93, 198-211.	4.9	76
26	On-Chip Dynamic Resource Managemen. Foundations and Trends in Electronic Design Automation, 2019, 13, 1-144.	1.0	3
27	Exploiting smart e-Health gateways at the edge of healthcare Internet-of-Things: A fog computing approach. Future Generation Computer Systems, 2018, 78, 641-658.	4.9	806
28	IoT-Based Remote Pain Monitoring System: From Device to Cloud Platform. IEEE Journal of Biomedical and Health Informatics, 2018, 22, 1711-1719.	3.9	125
29	Energy efficient wearable sensor node for IoT-based fall detection systems. Microprocessors and Microsystems, 2018, 56, 34-46.	1.8	111
30	Trends in On-chip Dynamic Resource Management. , 2018, , .		2
31	adBoost: Thermal Aware Performance Boosting Through Dark Silicon Patterning. IEEE Transactions on Computers, 2018, 67, 1062-1077.	2.4	23
32	An IoT-Enabled Stroke Rehabilitation System Based on Smart Wearable Armband and Machine Learning. IEEE Journal of Translational Engineering in Health and Medicine, 2018, 6, 1-10.	2.2	100
33	Fog Computing Approach for Mobility Support in Internet-of-Things Systems. IEEE Access, 2018, 6, 36064-36082.	2.6	44
34	Internet of things for remote elderly monitoring: a study from user-centered perspective. Journal of Ambient Intelligence and Humanized Computing, 2017, 8, 273-289.	3.3	150
35	A Perspective on Dark Silicon. , 2017, , 3-20.		15
36	The Internet of Things for basic nursing care—A scoping review. International Journal of Nursing Studies, 2017, 69, 78-90.	2.5	88

#	ARTICLE	IF	CITATIONS
37	Portable multipurpose bio-signal acquisition and wireless streaming device for wearables. , 2017, , .		24
38	Performance/Reliability-Aware Resource Management for Many-Cores in Dark Silicon Era. IEEE Transactions on Computers, 2017, 66, 1599-1612.	2.4	21
39	Self-awareness in remote health monitoring systems using wearable electronics. , 2017, , .		43
40	IoT-based continuous glucose monitoring system: A feasibility study. Procedia Computer Science, 2017, 109, 327-334.	1.2	89
41	HiCH. Transactions on Embedded Computing Systems, 2017, 16, 1-20.	2.1	118
42	DoS-IL: A Domain Specific Internet of Things Language for Resource Constrained Devices. Procedia Computer Science, 2017, 109, 416-423.	1.2	20
43	Reliability-Aware Runtime Power Management for Many-Core Systems in the Dark Silicon Era. IEEE Transactions on Very Large Scale Integration (VLSI) Systems, 2017, 25, 427-440.	2.1	38
44	Ultra-short-term analysis of heart rate variability for real-time acute pain monitoring with wearable electronics. , 2017, , .		16
45	On the Feasibility of Attribute-Based Encryption on Internet of Things Devices. IEEE Micro, 2016, 36, 25-35.	1.8	100
46	IoT-based remote facial expression monitoring system with sEMG signal. , 2016, , .		30
47	LISA 2.0: lightweight internet of things service bus architecture using node centric networking. Journal of Ambient Intelligence and Humanized Computing, 2016, 7, 305-319.	3.3	16
48	Facial Expression Recognition with sEMG Method. , 2015, , .		14
49	Dark silicon aware runtime mapping for many-core systems: A patterning approach. , 2015, , .		34
50	LISA: Lightweight Internet of Things Service Bus Architecture. Procedia Computer Science, 2015, 52, 436-443.	1.2	21
51	Dynamic power management for many-core platforms in the dark silicon era: A multi-objective control approach. , 2015, , .		33
52	High Performance Pattern Matching on Heterogeneous Platform. Journal of Integrative Bioinformatics, 2014, 11, 88-98.	1.0	2
53	Dark silicon aware power management for manycore systems under dynamic workloads. , 2014, , .		29
54	Adjustable contiguity of run-time task allocation in networked many-core systems. , 2014, , .		27

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55	Special section on advances in methods for adaptive multicore systems. Journal of Supercomputing, 2014, 68, 1023-1026.	2.4	0
56	A systematic reordering mechanism for on-chip networks using efficient congestion-aware method. Journal of Systems Architecture, 2013, 59, 213-222.	2.5	10
57	Developing a power-efficient and low-cost 3D NoC using smart GALS-based vertical channels. Journal of Computer and System Sciences, 2013, 79, 440-456.	0.9	8
58	Cluster-based topologies for 3D Networks-on-Chip using advanced inter-layer bus architecture. Journal of Computer and System Sciences, 2013, 79, 475-491.	0.9	14
59	Design and implementation of reconfigurable FIFOs for Voltage/Frequency Island-based Networks-on-Chip. Microprocessors and Microsystems, 2013, 37, 432-445.	1.8	11
60	Design space exploration of thermal-aware many-core systems. Journal of Systems Architecture, 2013, 59, 1197-1213.	2.5	1
61	Optimal placement of vertical connections in 3D Network-on-Chip. Journal of Systems Architecture, 2013, 59, 441-454.	2.5	26
62	Smart hill climbing for agile dynamic mapping in many-core systems. , 2013, , .		72
63	Green wideband RFID tag antenna for supply chain applications. IEICE Electronics Express, 2012, 9, 1861-1866.	0.3	1
64	CoNA: Dynamic application mapping for congestion reduction in many-core systems. , 2012, , .		49
65	Thermal modeling and analysis of advanced 3D stacked structures. Procedia Engineering, 2012, 30, 248-257.	1.2	10
66	An Optimized Network-on-Chip Design for Data Parallel FFT1. Procedia Engineering, 2012, 30, 311-318.	1.2	9
67	Evaluating Sustainability, Environment Assessment and Toxic Emissions in Life Cycle Stages of Printed Antenna. Procedia Engineering, 2012, 30, 508-513.	1.2	20
68	Exploring a Low-Cost and Power-Efficient Hybridization Technique for 3D NoC-Bus Hybrid Architecture Using LastZ-Based Routing Algorithms. Journal of Low Power Electronics, 2012, 8, 403-414.	0.6	3
69	A study of 3D Network-on-Chip design for data parallel H.264 coding. Microprocessors and Microsystems, 2011, 35, 603-612.	1.8	14
70	A generic adaptive path-based routing method for MPSoCs. Journal of Systems Architecture, 2011, 57, 109-120.	2.5	32