Mikkel Baun B KjÃ¦rgaard

List of Publications by Year
in descending order

86 papers	2,397 citations	706676 14 h-index	511568 30 g-index
88 all docs	88 docs citations	88 times ranked	2201 citing authors

#	Article	IF	Citations
1	Human-centered Information for Decision-Making Processes of Future Space Designs. , 2020, , .		0
2	Activity Recognition using Multi-Class Classification inside an Educational Building. , 2020, , .		1
3	A review of select human-building interfaces and their relationship to human behavior, energy use and occupant comfort. Building and Environment, 2020, 178, 106920.	3.0	79
4	Ontology-Based Modeling of Privacy Vulnerabilities for Data Sharing. IFIP Advances in Information and Communication Technology, 2020, , 109-125.	0.5	2
5	Introducing IEA EBC annex 79: Key challenges and opportunities in the field of occupant-centric building design and operation. Building and Environment, 2020, 178, 106738.	3.0	129
6	Current practices and infrastructure for open data based research on occupant-centric design and operation of buildings. Building and Environment, 2020, 177, 106848.	3.0	23
7	Tool-chain for supporting Privacy Risk Assessments. , 2020, , .		3
8	Scalable and Accurate Estimation of Room-Level People Counts from Multi-Modal Fusion of Perimeter Sensors and WiFi Trajectories. , 2019, , .		0
9	HeteroSense. , 2019, , .		10
10	Anonymizing building data for data analytics in cross-organizational settings. , 2019, , .		5
11	Room-level occupant counts and environmental quality from heterogeneous sensing modalities in a smart building. Scientific Data, 2019, 6, 287.	2.4	18
12	Brick : Metadata schema for portable smart building applications. Applied Energy, 2018, 226, 1273-1292.	5.1	129
13	PROMT: predicting occupancy presence in multiple resolution with time-shift agnostic classification. Computer Science - Research and Development, 2018, 33, 105-115.	2.7	13
14	Room-level occupant counts, airflow and CO ₂ data from an office building. , 2018, , .		11
15	The impact of occupancy resolution on the accuracy of building energy performance simulation. , 2018, , .		5
16	Real-time Occupancy Correction Method for 3D Stereovision Counting Cameras. , 2018, , .		0
17	Mobile crowdsourcing of occupant feedback in smart buildings. ACM SIGAPP Applied Computing Review: A Publication of the Special Interest Group on Applied Computing, 2017, 17, 5-14.	0.5	5
18	A World Class Energy Efficient University Building by Danish 2020 Standards. Energy Procedia, 2017, 132, 21-26.	1.8	23

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19	Energy flexibility in retail buildings: From a business ecosystem perspective. , 2017, , .		13
20	Categorization framework and survey of occupancy sensing systems. Pervasive and Mobile Computing, 2017, 38, 1-13.	2.1	18
21	Task phase recognition and task progress estimation for highly mobile workers in large building complexes. Pervasive and Mobile Computing, 2017, 38, 418-429.	2.1	1
22	Demand response with model predictive comfort compliance in an office building. , 2017, , .		2
23	Performance comparison of occupancy count estimation and prediction with common versus dedicated sensors for building model predictive control. Building Simulation, 2017, 10, 829-843.	3.0	33
24	Mining building metadata by data stream comparison. , 2016, , .		3
25	Brick. , 2016, , .		139
26	Mobile Crowdsourcing of Data for Fault Detection and Diagnosis in Smart Buildings. , 2016, , .		6
27	PLCount. , 2016, , .		28
28	Predicting Occupancy Presence in Multiple Resolutions for Commercial Buildings. , 2016, , .		2
29	Demonstrating OccuRE. , 2016, , .		0
30	Clustering and Visualisation of Electricity Data to identify Demand Response Opportunities. , 2016, , .		2
31	OccuRE: An Occupancy REasoning Platform for Occupancy-Driven Applications. , 2016, , .		19
32	Portable Queries Using the Brick Schema for Building Applications. , 2016, , .		1
33	Influential factors for accurate load prediction in a Demand Response context. , 2016, , .		4
34	Demand response in commercial buildings with an Assessable impact on occupant comfort. , 2016, , .		20
35	Task phase recognition for highly mobile workers in large building complexes. , 2016, , .		6
36	Accounting for the Invisible Work of Hospital Orderlies. , 2016, , .		25

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37	ACTIVITY RECOGNITION ON SMART DEVICES. GetMobile (New York, N Y), 2016, 20, 34-38.	0.7	9
38	Towards a metadata discovery, maintenance and validation process to support applications that improve the energy performance of buildings. , 2016, , .		3
39	Improving occupancy presence prediction via multi-label classification. , 2016, , .		13
40	Energy Efficiency in a Mobile World. Power Systems, 2016, , 249-268.	0.3	1
41	Smart Devices are Different. , 2015, , .		420
42	Spatio-temporal facility utilization analysis from exhaustive WiFi monitoring. Pervasive and Mobile Computing, 2015, 16, 305-316.	2.1	34
43	Challenge. , 2015, , .		13
44	On Architectural Qualities and Tactics for Mobile Sensing. , 2015, , .		4
45	Poster Abstract. , 2015, , .		2
46	Poster Abstract. , 2015, , .		2
47	Robust and Energy-Efficient Trajectory Tracking for Mobile Devices. IEEE Transactions on Mobile Computing, 2015, 14, 430-443.	3.9	32
48	Towards Indoor Transportation Mode Detection Using Mobile Sensing. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2015, , 259-279.	0.2	12
49	Commercial Buildings Energy Performance within Context - Occupants in Spotlight. , 2015, , .		13
50	Estimating Common Pedestrian Routes through Indoor Path Networks Using Position Traces. , 2014, , .		8
51	Handheld versus wearable interaction design for professionals. , 2014, , .		6
52	Distinguishing Electric Vehicles from Fossil-Fueled Vehicles with Mobile Sensing. , 2014, , .		2
53	Analysis methods for extracting knowledge from large-scale WiFi monitoring to inform building facility planning. , 2014, , .		59
54	Tool support for detection and analysis of following and leadership behavior of pedestrians from mobile sensing data. Pervasive and Mobile Computing, 2014, 10, 104-117.	2.1	13

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55	Time-lag method for detecting following and leadership behavior of pedestrians from mobile sensing data. , 2013, , .		28
56	Computational environmental ethnography. , 2013, , .		12
57	Studying Sensing-Based Systems: Scaling to Human Crowds in the Real World. IEEE Internet Computing, 2013, 17, 80-84.	3.2	7
58	Detecting pedestrian flocks by fusion of multi-modal sensors in mobile phones. , 2012, , .		52
59	DactyLoc: A minimally geo-referenced WiFi+GSM-fingerprint-based localization method for positioning in urban spaces. , 2012, , .		0
60	The impact of sensor errors and building structures on particle filter-based inertial positioning. Pervasive and Mobile Computing, 2012, 8, 764-776.	2.1	5
61	Mobile sensing of pedestrian flocks in indoor environments using WiFi signals. , 2012, , .		58
62	Challenges for social sensing using WiFi signals. , 2012, , .		9
63	On Improving the Energy Efficiency and Robustness of Position Tracking for Mobile Devices. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2012, , 162-173.	0.2	4
64	Unsupervised Power Profiling for Mobile Devices. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2012, , 138-149.	0.2	11
65	Towards a New Classification of Location Privacy Methods in Pervasive Computing. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2012, , 150-161.	0.2	4
66	The Use of GPS for Handling Lack of Indoor Constraints in Particle Filter-Based Inertial Positioning. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2012, , 383-385.	0.2	0
67	Using Extracted Behavioral Features to Improve Privacy for Shared Route Tracks. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2012, , 107-118.	0.2	0
68	PosQ: Unsupervised Fingerprinting and Visualization of GPS Positioning Quality. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2012, , 176-194.	0.2	0
69	Sensing and Classifying Impairments of GPS Reception on Mobile Devices. Lecture Notes in Computer Science, 2011, , 350-367.	1.0	12
70	Energy-efficient trajectory tracking for mobile devices. , 2011, , .		57
71	Indoor location fingerprinting with heterogeneous clients. Pervasive and Mobile Computing, 2011, 7, 31-43.	2.1	137
72	High Classification Rates for Continuous Cow Activity Recognition Using Low-Cost GPS Positioning Sensors and Standard Machine Learning Techniques. Lecture Notes in Computer Science, 2011, , 174-188.	1.0	7

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73	Demonstrating EnTracked a system for energy-efficient position tracking for mobile devices. , 2010, , .		2
74	PerPos. , 2010, , .		5
75	Indoor Positioning Using GPS Revisited. Lecture Notes in Computer Science, 2010, , 38-56.	1.0	87
76	PerPos: A Translucent Positioning Middleware Supporting Adaptation of Internal Positioning Processes. Lecture Notes in Computer Science, 2010, , 232-251.	1.0	3
77	Exposing position uncertainty in middleware. , 2010, , .		1
78	EnTracked. , 2009, , .		175
79	Error Estimation for Indoor 802.11 Location Fingerprinting. Lecture Notes in Computer Science, 2009, , 138-155.	1.0	42
80	Hyperbolic Location Fingerprinting: A Calibration-Free Solution for Handling Differences in Signal Strength (concise contribution). , 2008, , .		63
81	Composcan. , 2008, , .		17
82	GammaSense: Infrastructureless Positioning Using Background Radioactivity. Lecture Notes in Computer Science, 2008, , 69-82.	1.0	3
83	Efficient Indoor Proximity and Separation Detection for Location Fingerprinting. , 2008, , .		4
84	Zone-Based RSS Reporting for Location Fingerprinting. Lecture Notes in Computer Science, 2007, , 316-333.	1.0	13
85	A Taxonomy for Radio Location Fingerprinting. , 2007, , 139-156.		129
86	Automatic Mitigation of Sensor Variations for Signal Strength Based Location Systems. Lecture Notes in Computer Science, 2006, , 30-47.	1.0	26