

Ennio Gambi

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/886582/publications.pdf>

Version: 2024-02-01

143
papers

1,691
citations

471371

17
h-index

360920

35
g-index

147
all docs

147
docs citations

147
times ranked

1557
citing authors

#	ARTICLE	IF	CITATIONS
1	Patients Behaviour Monitoring Inside a Hospital Garden: Comparison Between RADAR and GPS Solutions. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2022, , 139-152.	0.2	0
2	Classification of Human Activities based on Automotive Radar Spectral Images Using Machine Learning Techniques: A Case Study. , 2022, , .		4
3	Authentication at the Physical Layer with Cooperative Communications and Machine Learning. , 2022, , .		0
4	Odorant Monitoring in Natural Gas Pipelines Using Ultraviolet-Visible Spectroscopy. Applied Spectroscopy, 2021, 75, 168-177.	1.2	3
5	Preliminary Analysis of the OPENCARE System Architecture in Residential Facilities. Lecture Notes in Electrical Engineering, 2021, , 263-274.	0.3	0
6	mmWave Radar Features Extraction of Drones for Machine Learning Classification. , 2021, , .		2
7	Slow-Time mmWave Radar Vibrometry for Drowsiness Detection. , 2021, , .		4
8	Comparison of Video and Radar Contactless Heart Rate Measurements. Communications in Computer and Information Science, 2021, , 96-113.	0.4	1
9	Comparison of Statistical and Machine Learning Techniques for Physical Layer Authentication. IEEE Transactions on Information Forensics and Security, 2021, 16, 1506-1521.	4.5	34
10	Performance Evaluation of Vibrational Measurements through mmWave Automotive Radars. Remote Sensing, 2021, 13, 98.	1.8	15
11	Automatic Optical Measurement and Control of Benzene and Benzenoids in Natural Gas Pipelines. Sensors, 2021, 21, 7575.	2.1	1
12	Underwater Wireless Sensor Networks: Estimation of Acoustic Channel in Shallow Water. Applied Sciences (Switzerland), 2020, 10, 6393.	1.3	17
13	ADL Recognition Through Machine Learning Algorithms on IoT Air Quality Sensor Dataset. IEEE Sensors Journal, 2020, 20, 13562-13570.	2.4	18
14	Millimeter wave radar data of people walking. Data in Brief, 2020, 31, 105996.	0.5	14
15	Physical Layer Authentication Techniques based on Machine Learning with Data Compression. , 2020, , .		4
16	Food Intake Actions Detection: An Improved Algorithm Toward Real-Time Analysis. Journal of Imaging, 2020, 6, 12.	1.7	2
17	Contactless Walking Recognition based on mmWave RADAR. , 2020, , .		6
18	People Walking Classification Using Automotive Radar. Electronics (Switzerland), 2020, 9, 588.	1.8	25

#	ARTICLE	IF	CITATIONS
19	A Wearable Fall Detection System based on LoRa LPWAN Technology. Journal of Communications Software and Systems, 2020, 16, 232-242.	0.6	4
20	Contactless Heart Rate Measurements using RGB-camera and Radar. , 2020, , .		3
21	Simultaneously acquired data from contactless and wearable devices for direct and indirect heart-rate measurement. Data in Brief, 2019, 26, 104436.	0.5	4
22	Micro Doppler Radar and Depth Sensor Fusion for Human Activity Monitoring in AAL. Lecture Notes in Electrical Engineering, 2019, , 519-528.	0.3	1
23	Statistical and Machine Learning-Based Decision Techniques for Physical Layer Authentication. , 2019, , .		11
24	Blind Physical Layer Authentication over Fading Wireless Channels through Machine Learning. , 2019, , .		3
25	People Movement Analysis with Automotive Radar. , 2019, , .		5
26	A Technological Approach to Support the Care Process of Older in Residential Facilities. Lecture Notes in Electrical Engineering, 2019, , 71-79.	0.3	3
27	Telecommunications in the ICT Age: From Research to Applications. , 2019, , 53-71.		0
28	AUTOMOTIVE RADAR APPLICATION FOR STRUCTURAL HEALTH MONITORING. , 2019, , .		4
29	A Footwear-Based Methodology for Fall Detection. IEEE Sensors Journal, 2018, 18, 1233-1242.	2.4	54
30	Self-Adaptive and Lightweight Real-Time Sleep Recognition With Smartphone. Journal of Communications Software and Systems, 2018, 14, 211-217.	0.6	0
31	A home automation architecture based on LoRa technology and Message Queue Telemetry Transfer protocol. International Journal of Distributed Sensor Networks, 2018, 14, 155014771880683.	1.3	23
32	Accurate Fall Detection in a Top View Privacy Preserving Configuration. Sensors, 2018, 18, 1754.	2.1	9
33	Energy Efficient Communication in Ambient Assisted Living. , 2017, , 37-59.		0
34	The Human Factor in the Design of Successful Ambient Assisted Living Technologies. , 2017, , 61-89.		12
35	Radar and RGB-Depth Sensors for Fall Detection: A Review. IEEE Sensors Journal, 2017, 17, 3585-3604.	2.4	157
36	Improved Solution to Monitor People with Dementia and Support Care Providers. Lecture Notes in Electrical Engineering, 2017, , 153-169.	0.3	0

#	ARTICLE	IF	CITATIONS
37	A prototype system for mm-wave channel characterization: Issues and results. , 2017, , .		0
38	Multisensor data fusion for human activities classification and fall detection. , 2017, , .		49
39	Analysis and Tools for Improved Management of Connectionless and Connection-Oriented BLE Devices Coexistence. Sensors, 2017, 17, 792.	2.1	8
40	Heart Rate Detection Using Microsoft Kinect: Validation and Comparison to Wearable Devices. Sensors, 2017, 17, 1776.	2.1	46
41	Human Action Recognition with RGB-D Sensors. , 2017, , .		4
42	Smartphones as Multipurpose Intelligent Objects for AAL: Two Case Studies. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2017, , 125-134.	0.2	2
43	Supporting Caregivers in Nursing Homes for Alzheimerâ€™s Disease Patients: A Technological Approach to Overnight Supervision. Communications in Computer and Information Science, 2017, , 1-19.	0.4	2
44	Integrated Multimedia and Sensor Data Management in Heterogeneous Home Networks: a Concept Proposal. Journal of Communications Software and Systems, 2017, 6, 101.	0.6	2
45	Android-Based Liveness Detection for Access Control in Smart Homes. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2017, , 116-124.	0.2	0
46	Integrated Smart TV-Based Personal e-Health System. International Journal of E-Health and Medical Communications, 2016, 7, 48-64.	1.4	13
47	Feasibility of e-health services through the smart TV: a prototype demonstrator. International Journal of Medical Engineering and Informatics, 2016, 8, 329.	0.2	0
48	A Human Activity Recognition System Using Skeleton Data from RGBD Sensors. Computational Intelligence and Neuroscience, 2016, 2016, 1-14.	1.1	158
49	Interoperability in IoT infrastructures for enhanced living environments. , 2016, , .		11
50	Evaluation of a skeleton-based method for human activity recognition on a large-scale RGB-D dataset. , 2016, , .		17
51	An Integrated Approach to Fall Detection and Fall Risk Estimation Based on RGB-Depth and Inertial Sensors. , 2016, , .		7
52	MQTT in AAL systems for home monitoring of people with dementia. , 2016, , .		10
53	BLE analysis and experimental evaluation in a walking monitoring device for elderly. , 2016, , .		2
54	Unobtrusive intake actions monitoring through RGB and depth information fusion. , 2016, , .		6

#	ARTICLE	IF	CITATIONS
55	Human Action Recognition Based on Temporal Pyramid of Key Poses Using RGB-D Sensors. Lecture Notes in Computer Science, 2016, , 510-521.	1.0	3
56	Proposal and Experimental Evaluation of Fall Detection Solution Based on Wearable and Depth Data Fusion. Advances in Intelligent Systems and Computing, 2016, , 99-108.	0.5	52
57	An OpenCV Based Android Application for Drowsiness Detection on Mobile Devices. Lecture Notes in Electrical Engineering, 2016, , 145-158.	0.3	2
58	User Interfaces in Smart Assistive Environments. Advances in Human and Social Aspects of Technology Book Series, 2016, , 420-443.	0.3	2
59	Overnight Supervision of Alzheimer's Disease Patients in Nursing Homes - System Development and Field Trial. , 2016, , .		7
60	NFC-Based User Interface for Smart Environments. Advances in Human-Computer Interaction, 2015, 2015, 1-12.	1.8	4
61	Kinect as a Tool for Gait Analysis: Validation of a Real-Time Joint Extraction Algorithm Working in Side View. Sensors, 2015, 15, 1417-1434.	2.1	54
62	Data Management in Ambient Assisted Living Platforms Approaching IoT: A Case Study. , 2015, , .		6
63	Time synchronization and data fusion for RGB-Depth cameras and inertial sensors in AAL applications. , 2015, , .		27
64	Performance analysis of self-organising neural networks tracking algorithms for intake monitoring using kinect. , 2015, , .		12
65	Validation of an optimized algorithm to use Kinect in a non-structured environment for Sit-to-Stand analysis. , 2015, 2015, 5078-81.		5
66	De Bruijn sequences for DS/CDMA transmission: Efficient generation, statistical analysis and performance evaluation. , 2015, , .		7
67	Low complexity head tracking on portable android devices for real time message composition. Journal on Multimodal User Interfaces, 2015, 9, 141-151.	2.0	7
68	Multimodal Interaction in a Elderly-Friendly Smart Home: A Case Study. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2015, , 373-386.	0.2	6
69	Depth Cameras in AAL Environments. Advances in Medical Technologies and Clinical Practice Book Series, 2015, , 22-41.	0.3	1
70	Depth Cameras in AAL Environments. , 2015, , 1056-1075.		2
71	Mission Analysis for the Optimization of the GPS Coverage for an Earth Observation Satellite. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2015, , 199-211.	0.2	0
72	Comparison of RGB-D Mapping Solutions for Application to Food Intake Monitoring. Biosystems and Biorobotics, 2015, , 295-305.	0.2	1

#	ARTICLE	IF	CITATIONS
73	Interoperability issues among smart home technological frameworks. , 2014, , .		21
74	A Depth-Based Fall Detection System Using a Kinect ^Å Sensor. Sensors, 2014, 14, 2756-2775.	2.1	181
75	A large set of orthogonal codes for the V2V scenario. , 2014, , .		1
76	Depth stream compression for enhanced real time fall detection by multiple sensors. , 2014, , .		2
77	A simple object for elderly vitality monitoring: The smart insole. , 2014, , .		8
78	Real time message composition through head movements on portable Android devices. , 2014, , .		3
79	De Bruijn spreading sequences for dense CDMA-based WSNs. , 2014, , .		4
80	SDR GNSS receivers: A comparative overview of different approaches. , 2014, , .		3
81	De Bruijn sequences as Zero Correlation Zone codes for satellite navigation systems. , 2014, , .		5
82	A depth-based joints estimation algorithm for get up and go test using Kinect. , 2014, , .		1
83	Smart TV based ecosystem for personal e-health services. , 2014, , .		8
84	Wireless M-Bus Sensor Networks for Smart Water Grids: Analysis and Results. International Journal of Distributed Sensor Networks, 2014, 10, 579271.	1.3	27
85	Quality of Kinect Depth Information for Passive Posture Monitoring. , 2014, , 107-116.		4
86	De Bruijn sequences as spreading codes in extreme Doppler conditions: Analysis and results. , 2013, , .		4
87	Analysis of Spreading Codes in Conjunction with Ambiguity Function for Inter Vehicular Communication. , 2013, , .		1
88	De Bruijn sequences for secure scrambling at Long Term Evolution - Advanced physical layer. , 2013, , .		6
89	DS-SS with de Bruijn sequences for secure Inter Satellite Links. , 2013, , .		7
90	Evaluation and possible improvements of the ANT protocol for home heart monitoring applications. , 2013, , .		1

#	ARTICLE	IF	CITATIONS
91	Evaluation of the Wireless M-Bus standard for future smart water grids. , 2013, , .		19
92	De Bruijn binary sequences and spread spectrum applications: A marriage possible?. IEEE Aerospace and Electronic Systems Magazine, 2013, 28, 28-39.	2.3	14
93	Spreading codes for multiuser estimation in non coherent and non cooperative environments. , 2013, , .		2
94	De Bruijn sequences as secure spreading codes for wireless communications. , 2013, , .		8
95	Secured scrambling codes for vehicular control and navigation. , 2013, , .		2
96	Technological Approaches to Remote Monitoring of Elderly People in Cardiology: A Usability Perspective. International Journal of Telemedicine and Applications, 2012, 2012, 1-10.	1.1	23
97	De Bruijn sequences analysis through Ambiguity functions in a deep-space communication scenario. , 2012, , .		1
98	Ground station activity planning through a multi-algorithm optimisation approach. , 2012, , .		8
99	Home automation systems control by head tracking in AAL applications. , 2012, , .		3
100	Remote health monitoring for elderly through interactive television. BioMedical Engineering OnLine, 2012, 11, 54.	1.3	23
101	Remote health monitoring by OSCi technology and digital TV integration. IEEE Transactions on Consumer Electronics, 2012, 58, 1434-1441.	3.0	32
102	An MHP based solution for assistive home automation. , 2011, , .		3
103	Modified de Bruijn sequences for spread spectrum communications. , 2011, , .		3
104	Binary De Bruijn sequences for DS-CDMA systems: analysis and results. Eurasip Journal on Wireless Communications and Networking, 2011, 2011, .	1.5	15
105	An Optimized Dynamic Scene Change Detection Algorithm for H.264/AVC Encoded Video Sequences. International Journal of Digital Multimedia Broadcasting, 2010, 2010, 1-9.	0.4	3
106	Application of de Bruijn sequences in automotive radar systems: Preliminary evaluations. , 2010, , .		6
107	Advances in Video Coding for Broadcast Applications. International Journal of Digital Multimedia Broadcasting, 2009, 2009, 1-2.	0.4	0
108	Selective encryption for efficient and secure transmission of compressed space images. , 2009, , .		5

#	ARTICLE	IF	CITATIONS
109	Application and performance analysis of various AEAD techniques for space telecommand authentication. IEEE Transactions on Wireless Communications, 2009, 8, 308-319.	6.1	8
110	Telecommand Authentication in Space Missions: Cryptanalysis and Future Trends. IEEE Transactions on Aerospace and Electronic Systems, 2009, 45, 752-761.	2.6	1
111	H.264/AVC Error Concealment for DVB-H Video Transmission. , 2009, , 461-484.		0
112	Chaos-Based Radars for Automotive Applications: Theoretical Issues and Numerical Simulation. IEEE Transactions on Vehicular Technology, 2008, 57, 3858-3863.	3.9	33
113	Security solutions in VoIP applications: State of the art and impact on quality. , 2008, , .		6
114	Analysis of a quality of service framework for home area networks. , 2008, , .		1
115	Proposal of a driver assistance system based on video and radar data fusion. , 2008, , .		5
116	A distributed binary tree protocol for medium access control in RFID systems. , 2008, , .		3
117	A Digital Television Based Solution for Remote Health Care of Rural People. , 2008, , .		2
118	An integrated solution for home automation. , 2008, , .		5
119	Quality assessment of secure VoIP communications. , 2008, , .		1
120	A General Model for Performance Evaluation in DS-CDMA Systems with Variable Spreading Factors. IEICE Transactions on Communications, 2008, E91-B, 466-478.	0.4	1
121	A Proposal of Automotive Anticollision Radars Based on Spread Spectrum Techniques. , 2007, , .		2
122	Certified e-mail over digital terrestrial television. , 2007, , .		1
123	Quality of Service in local area networks intended for home entertainment and domotic applications. , 2007, , .		0
124	Scalable extension of the H.264 video codec: Overview and performance evaluation. , 2007, , .		4
125	DSA with SHA-1 for space telecommands authentication. , 2007, , .		0
126	Performance of automotive spread spectrum radars. , 2006, , .		1

#	ARTICLE	IF	CITATIONS
127	Complexity issues in the introduction of High Definition in H. 264/AVC based videoconferencing. , 2006, , .		0
128	A T-Learning Platform based on Digital Terrestrial Television. , 2006, , .		8
129	Low complexity concealment of H.264/AVC encoded video for DVB-H devices. , 2006, , .		1
130	On the efficiency of error concealment techniques in H.264/AVC coders. , 2005, , .		2
131	Efficiency Tests Results and New Perspectives for Secure Telecommand Authentication in Space Missions: Case-Study of the European Space Agency. ETRI Journal, 2005, 27, 394-404.	1.2	6
132	Proposal and performance evaluation of a packet over VDSL protocol for increasing throughput in the transmission of IP packets. International Journal of Communication Systems, 2004, 17, 363-374.	1.6	0
133	A new chaotic algorithm for video encryption. IEEE Transactions on Consumer Electronics, 2003, 48, 838-844.	3.0	91
134	Design of an all-optical wavelength router based on spatial solitons. Journal of Lightwave Technology, 1999, 17, 1670-1681.	2.7	2
135	Hybrid image/ray-shooting UHF radio propagation predictor for populated indoor environments. Electronics Letters, 1999, 35, 1804.	0.5	19
136	Self-routing all-optical switch for WDM applications. , 1998, 3491, 9.		0
137	All-optical polarization modulator based on spatial soliton coupling. Journal of Lightwave Technology, 1996, 14, 513-523.	2.7	8
138	PPM transmission over a photon counting channel: Comparison among various transmission formats. European Transactions on Telecommunications, 1996, 7, 359-376.	1.2	1
139	Coupled-soliton photonic logic gates: practical design procedures. Journal of the Optical Society of America B: Optical Physics, 1995, 12, 1300.	0.9	35
140	Effects of EDFA Construction Parameters on Soliton Propagation in Long-distance Transmission Systems. Journal of Optical Communications, 1994, 15, .	4.0	3
141	Soliton propagation in long erbium-doped fiber amplifiers with nonuniform gain. Optics Communications, 1994, 105, 47-51.	1.0	2
142	Mode decision optimization issues in H.264 video coding. , 0, , .		1
143	Integrated Smart TV-Based Personal E-Health System. , 0, , 1046-1063.		0