Susana Sargento

List of Publications by Year
in descending order

201 papers	1,830 citations	516710 16 h-index	454955 30 g-index
207 all docs	207 docs citations	207 times ranked	1647 citing authors

#	Article	IF	Citations
1	Handling Producer and Consumer Mobility in IoT Publish–Subscribe Named Data Networks. IEEE Internet of Things Journal, 2022, 9, 868-884.	8.7	10
2	Vehicular traffic flow prediction using deployed traffic counters in a city. Future Generation Computer Systems, 2022, 128, 429-442.	7.5	19
3	Smart Unmanned Aerial Vehicles as base stations placement to improve the mobile network operations. Computer Communications, 2022, 181, 45-57.	5.1	14
4	Consumer Mobility Awareness in Named Data Networks. IEEE Access, 2022, 10, 18156-18168.	4.2	2
5	On the Real Experimentation and Simulation Models for Millimeter-Wave. IEEE Access, 2022, 10, 51191-51208.	4.2	3
6	Using Bus Tracking Data toÂDetect Potential Hazard Driving Zones. Lecture Notes in Computer Science, 2022, , 667-679.	1.3	0
7	Using Aerial and Vehicular NFV Infrastructures to Agilely Create Vertical Services. Sensors, 2021, 21, 1342.	3.8	4
8	LoRa Connectivity Analysis for Urban Coverage in Real Mobile Environments. , 2021, , .		2
9	Real-time video frame differentiation in multihomed VANETs. Wireless Networks, 2021, 27, 2559-2575.	3.0	0
10	Radiological Scouting, Monitoring and Inspection Using Drones. Sensors, 2021, 21, 3143.	3.8	18
11	Bringing Network Coding into SDN: Architectural Study for Meshed Heterogeneous Communications. IEEE Communications Magazine, 2021, 59, 37-43.	6.1	11
12	A Forecasting Approach to Improve Control and Management for 5G Networks. IEEE Transactions on Network and Service Management, 2021, 18, 1817-1831.	4.9	18
13	RL-CNN: Reinforcement Learning-designed Convolutional Neural Network for Urban Traffic Flow Estimation. , 2021, , .		1
14	MTL-LSTM: Multi-Task Learning-based LSTM for Urban Traffic Flow Forecasting. , 2021, , .		3
15	Machine Learning for the Dynamic Positioning of UAVs for Extended Connectivity. Sensors, 2021, 21, 4618.	3.8	4
16	Large-Scale LoRa Networks: A Mode Adaptive Protocol. IEEE Internet of Things Journal, 2021, 8, 13487-13502.	8.7	4
17	Exploring software defined networks for seamless handovers in vehicular networks. Vehicular Communications, 2021, 31, 100372.	4.0	4
18	Enabling the Industrial Internet of Things to Cloud Continuum in a Real City Environment. Sensors, 2021, 21, 7707.	3.8	8

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19	Exploring the Use of Control Packets in LoRa Medium Access: A Scalability Analysis. , 2020, , .		3
20	ArchSDN: a reinforcement learning-based autonomous OpenFlow controller with distributed management properties. SN Applied Sciences, 2020, 2, 1.	2.9	1
21	Edge Virtualization in Multihomed Vehicular Networks. , 2020, , .		1
22	Physical Layer Anomaly Detection Mechanisms in IoT Networks. , 2020, , .		3
23	Distributed Real-time Forecasting Framework for IoT Network and Service Management. , 2020, , .		4
24	When Backscatter Communication Meets Vehicular Networks: Boosting Crosswalk Awareness. IEEE Access, 2020, 8, 34507-34521.	4.2	14
25	MIGRATE: Mobile Device Virtualisation Through State Transfer. IEEE Access, 2020, 8, 25848-25862.	4.2	20
26	Skipping-based handover algorithm for video distribution over ultra-dense VANET. Computer Networks, 2020, 176, 107252.	5.1	6
27	Evaluation of Content Dissemination Strategies in Urban Vehicular Networks. Information (Switzerland), 2020, 11, 163.	2.9	4
28	Root Cause Analysis of Reduced Accessibility in 4G Networks. Lecture Notes in Computer Science, 2020, , 117-133.	1.3	2
29	EmuCD: An Emulator for Content Dissemination Protocols in Vehicular Networks. Future Internet, 2020, 12, 234.	3.8	2
30	Passive Gateway Election Mechanisms for Swarms of Drones in Aquatic Sensing Environments. , 2020, , .		1
31	Complementing Vehicular Connectivity Coverage through Cellular Networks. , 2020, , .		3
32	QoE of Video Streaming in Multihomed Vehicular Networks. , 2019, , .		3
33	On the Real Capacity of LoRa Networks: The Impact of Non-Destructive Communications. IEEE Communications Letters, 2019, 23, 2437-2441.	4.1	38
34	5GinFIRE: An end-to-end open5G vertical network function ecosystem. Ad Hoc Networks, 2019, 93, 101895.	5.5	16
35	On the performance of social-based and location-aware forwarding strategies in urban vehicular networks. Ad Hoc Networks, 2019, 93, 101925.	5.5	4
36	Real-time Video Transmission in Multihomed Vehicular Networks. , 2019, , .		3

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37	A Platform of Unmanned Surface Vehicle Swarms for Real Time Monitoring in Aquaculture Environments. Sensors, 2019, 19, 4695.	3.8	11
38	The impact of ECDSA in a VANET routing service: Insights from real data traces. Ad Hoc Networks, 2019, 90, 101747.	5.5	4
39	Assessing the reliability of fog computing for smart mobility applications in VANETs. Future Generation Computer Systems, 2019, 94, 317-332.	7.5	79
40	Multi-virtual wireless mesh networks through multiple channels and interfaces. Wireless Networks, 2019, 25, 2269-2284.	3.0	1
41	Self-adaptive Team of Aquatic Drones with a Communication Network for Aquaculture. Lecture Notes in Computer Science, 2019, , 569-580.	1.3	3
42	PortoLivingLab: An IoT-Based Sensing Platform for Smart Cities. IEEE Internet of Things Journal, 2018, 5, 523-532.	8.7	149
43	TROPHY: Trustworthy VANET routing with group authentication keys. Ad Hoc Networks, 2018, 71, 45-67.	5.5	25
44	Smarter Cities With Parked Cars as Roadside Units. IEEE Transactions on Intelligent Transportation Systems, 2018, 19, 2338-2352.	8.0	14
45	Catch-up TV forecasting: enabling next-generation over-the-top multimedia TV services. Multimedia Tools and Applications, 2018, 77, 14527-14555.	3.9	7
46	Content Distribution Optimization Algorithms in Vehicular Networks. , 2018, , .		2
47	Multi-technology vs Single-technology Architecture for Network Coding in VANETs. , 2018, , .		1
48	An Aquatic Mobile Sensing USV Swarm with a Link Quality-Based Delay Tolerant Network. Sensors, 2018, 18, 3440.	3.8	7
49	On the Analysis of Content Dissemination through Real Vehicular Boards. , 2018, , .		1
50	A Multi-Technology Communication Platform for Urban Mobile Sensing. Sensors, 2018, 18, 1184.	3.8	17
51	loop - A Trace-based Emulator for Vehicular Ad Hoc Networks. , 2018, , .		2
52	Catch-up TV analytics: statistical characterization and consumption patterns identification on a production service. Multimedia Systems, 2017, 23, 563-581.	4.7	5
53	A graph structure approach to improving message dissemination in vehicular networks. Wireless Networks, 2017, 23, 2145-2163.	3.0	5
54	Parked Cars are Excellent Roadside Units. IEEE Transactions on Intelligent Transportation Systems, 2017, 18, 2490-2502.	8.0	39

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55	Content distribution emulation for vehicular networks. , 2017, , .		12
56	An architecture for a learning-based autonomic decision system. Journal of Computational Science, 2017, 22, 268-282.	2.9	3
57	Socially-Aware Multimedia Dissemination in Personal Mobile Networks. Wireless Personal Communications, 2017, 97, 2295-2328.	2.7	0
58	Supporting Unified Distributed Management and Autonomic Decisions: Design, Implementation and Deployment. Journal of Network and Systems Management, 2017, 25, 416-456.	4.9	3
59	Long range communications in urban and rural environments. , 2017, , .		36
60	Distributed mobility management in future networks: Tunneling or host routing?. , 2016, , .		2
61	Learning-based Autonomic Decision System for bandwidth-aware routing. , 2016, , .		1
62	Call admission control for wireless mesh network based on power interference modeling using directional antenna. Wireless Networks, 2016, 22, 2299-2316.	3.0	2
63	Optimal virtual network migration: A step closer for seamless resource mobility. Journal of Network and Computer Applications, 2016, 64, 124-136.	9.1	6
64	Channel Selection Relying on Probabilistic Adjacent Channel Interference Analysis and Pattern Recognition. Wireless Personal Communications, 2016, 86, 1333-1357.	2.7	1
65	Prediction-based connection manager for vehicular networks. , 2015, , .		1
66	An intelligent and optimized multihoming approach in real and heterogeneous environments. Wireless Networks, 2015, 21, 1935-1955.	3.0	9
67	QoE Assessment of HTTP Adaptive Video Streaming. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2015, , 235-242.	0.3	7
68	Distributed IP mobility in a real vehicular network. , 2015, , .		4
69	Lessons learned from a real vehicular network deployment of delay-tolerant networking. , 2015, , .		4
70	A control framework for abstract multiparty transport. Computer Communications, 2015, 56, 74-88.	5.1	0
71	The Cloud Inside the Network. , 2015, , 2198-2224.		0
72	Vehicular testbed management. , 2014, , .		1

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73	Context-aware control of user-centric virtual networks: Centralized vs distributed approaches. Computer Networks, 2014, 74, 4-21.	5.1	3
74	Distributed mobility management in vehicular networks. , 2014, , .		4
75	Studying the integration of distributed and dynamic schemes in the mobility management. Computer Networks, 2014, 60, 46-59.	5.1	9
76	Analytical modeling of context-based multi-virtual wireless mesh networks. Ad Hoc Networks, 2014, 13, 191-209.	5.5	3
77	Advances on Smart Object Management. Mobile Networks and Applications, 2014, 19, 1-3.	3.3	5
78	Harbornet: a real-world testbed for vehicular networks. , 2014, 52, 108-114.		38
79	Multihoming and network coding: A new approach to optimize the network performance. Computer Networks, 2014, 75, 18-36.	5.1	6
80	Context-aware adaptive IP mobility anchoring. Computer Networks, 2014, 71, 84-99.	5.1	3
81	Deploying Roadside Units in Sparse Vehicular Networks: What Really Works and What Does Not. IEEE Transactions on Vehicular Technology, 2014, 63, 2794-2806.	6.3	108
82	Mobility Estimation in the Context of Distributed Mobility Management. Lecture Notes in Social Networks, 2014, , 289-310.	0.1	3
83	Social-Aware Opportunistic Routing Protocol Based on User's Interactions and Interests. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2014, , 100-115.	0.3	11
84	Advanced multicast class-based bandwidth over-provisioning. Computer Networks, 2013, 57, 2075-2092.	5.1	10
85	On the analysis of hierarchical autonomic control of multiparty services. IEEE Network, 2013, 27, 45-51.	6.9	3
86	Scalable resource and admission management in class-based networks. , 2013, , .		2
87	Make-without-break horizontal IP handovers for Distributed Mobility Management schemes. , 2013, , .		1
88	On the analysis of dissemination management information through an Eyesight perspective. , 2013, , .		2
89	Enhancing abstract multiparty transport through Network Coding. , 2013, , .		0
90	A genetic algorithm approach to improve network nodes association. , 2013, , .		1

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91	A Spanning Tree Protocol over mobile wireless ad hoc networks. , 2013, , .		1
92	Dynamic mobile IP anchoring. , 2013, , .		7
93	Optimal Virtual Network Embedding: Node-Link Formulation. IEEE Transactions on Network and Service Management, 2013, 10, 356-368.	4.9	79
94	Multihop Mobility Metrics based on Link Stability. , 2013, , .		1
95	Welcome message from the IoT-SoS 2013 chairs. , 2013, , .		0
96	A Re-optimization Approach for Virtual Network Embedding. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2013, , 271-283.	0.3	3
97	A Dependable Alternative to the Spanning Tree Protocol. Lecture Notes in Computer Science, 2013, , 148-164.	1.3	3
98	IEEE 802.21 MIH-enabled Evolved Packet System Architecture. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2012, , 61-75.	0.3	1
99	Self-organizing decentralized wireless management through social-based metrics. , 2012, , .		1
100	Optimizing network performance with multihoming and network coding. , 2012, , .		9
101	Improving MAC layer association through social-based metrics in mobile networks. , 2012, 50, 91-98.		8
102	Context-based wireless mesh networks: a case for network virtualization. Telecommunication Systems, 2012, 51, 259-272.	2.5	20
103	A Decoupling Approach for Distributed Mobility Management. , 2012, , .		5
104	A statistical channel model for realistic simulation in VANET. , 2012, , .		14
105	Decoupling and distribution of mobility management. , 2012, , .		2
106	Improving VANET protocols via network science. , 2012, , .		24
107	Quality of experience-based routing in multi-service wireless mesh networks. , 2012, , .		16
108	Assessment Model for Opportunistic Routing. IEEE Latin America Transactions, 2012, 10, 1785-1790.	1.6	5

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109	Virtual Network Mapping â€" An Optimization Problem. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2012, , 187-200.	0.3	15
110	Resource allocation in the network operator's cloud: A virtualization approach. , 2012, , .		8
111	Opportunistic routing based on daily routines. , 2012, , .		87
112	Seamless horizontal and vertical mobility in VANET. , 2012, , .		14
113	Virtual network stacks: from theory to practice. Security and Communication Networks, 2012, 5, 738-751.	1.5	0
114	Distributed Approach to Control and Manage Context-based Multi-virtual Networks. Mobile Networks and Applications, 2012, 17, 447-462.	3.3	4
115	Mobility and Network Management in Virtualized Networks. Mobile Networks and Applications, 2012, 17, 431-434.	3.3	1
116	Nodes Discovery in the In-Network Management Communication Framework. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2012, , 145-157.	0.3	4
117	Distributed Control and Management of Context-Based Wireless Mesh Networks. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2012, , 158-173.	0.3	1
118	Media Independent Handover Management in Heterogeneous Access Networks - An Empirical Evaluation. , 2011, , .		2
119	Virtual network mapping into heterogeneous substrate networks. , 2011, , .		35
120	An IEEE 802.11p/WAVE implementation with synchronous channel switching for seamless dual-channel access (poster). , 2011, , .		20
121	Mobility of sources and listeners: real-time support of multicast services. Telecommunication Systems, 2011, 48, 185-202.	2.5	1
122	Supporting QoS in Integrated Ad-Hoc Networks. Wireless Personal Communications, 2011, 56, 183-206.	2.7	12
123	Context-aware media independent information server for optimized seamless handover procedures. Computer Networks, 2011, 55, 1498-1519.	5.1	30
124	Real-world evaluation of IEEE 802.11p for vehicular networks. , 2011, , .		11
125	Waypoint Routing: A Network Layer Privacy Framework. , 2011, , .		3
126	Impact of mobility on user-centric routing. , 2011, , .		1

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127	Assessment model for opportunistic routing. , 2011, , .		14
128	XCP-Winf and RCP-Winf: Congestion Control Techniques for Wireless Mesh Networks. , 2011, , .		5
129	A platform for Operator-driven Network Virtualization. , 2011, , .		5
130	An Architecture for Optimized Inter-Technology Handovers: Experimental Study. , 2011, , .		5
131	A Cross-System Approach for Multimedia Services with IP Multicast in 4G Networks. Wireless Personal Communications, 2010, 52, 651-668.	2.7	4
132	Quality of experience optimized scheduling in multi-service wireless mesh networks. , 2010, , .		7
133	A distributed approach for virtual network discovery. , 2010, , .		5
134	COR: An efficient Class-based resource Over-pRovisioning mechanism for future networks. , 2010, , .		5
135	Data communications over context-based WMNs: Delay performance evaluation. , 2010, , .		2
136	Context-based connectivity and characterization of Wireless Mesh Networks: Simulation study. , 2010, , .		3
137	Mobility with QoS in Broadcast Unidirectional Technologies: Experimental Validation. , 2010, , .		1
138	A cooperative Hide and Seek discovery over In Network Management. , 2010, , .		7
139	A New Strategy for Efficient Decentralized Network Control. , 2010, , .		9
140	Media Independent End User Behavior and Performance Reports. , 2010, , .		1
141	Mobility Management Architecture for WiMAX Networks. , 2010, , 251-287.		1
142	rt-Winf: Real time wireless inference mechanism. , 2010, , .		3
143	Context-based connectivity over multi-virtual Wireless Mesh Networks: Analytical study. , 2010, , .		1
144	Hierarchical Neighbor Discovery Scheme for Handover Optimization. IEEE Communications Letters, 2010, 14, 1020-1022.	4.1	18

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145	Multiparty Seamless Transport. , 2010, , .		6
146	Dynamic media independent information server. , 2010, , .		1
147	Distortion Optimized Multi-Service Scheduling for Next-Generation Wireless Mesh Networks. , 2010, , .		28
148	On the connection availability between relay nodes in a VANET. , 2010, , .		20
149	TCP, XCP and RCP in Wireless mesh networks: An evaluation study. , 2010, , .		2
150	Context-aware selection in multicast environments. , 2010, , .		2
151	Context-Aware Connectivity and Mobility in Wireless Mesh Networks. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2010, , 49-56.	0.3	3
152	Session and Network Support for Autonomous Context-Aware Multiparty Communications in Heterogeneous Mobile Systems. International Journal of Handheld Computing Research, 2010, 1, 1-24.	0.4	5
153	Multicast Mobility in Heterogeneous Technologies: Experimental Validation. , 2009, , .		0
154	Enhanced Media Independent Handover Framework. , 2009, , .		26
155	Integration of Optical and Wireless Technologies in the Metro-Access: QoS Support and Mobility Aspects. , 2009, , .		5
156	Cross layer design approach for performance evaluation of multimedia contents. , 2009, , .		4
157	Architecture for context-aware multiparty delivery in mobile heterogeneous networks. , 2009, , .		9
158	Mobility management for NGN WiMAX: Specification and implementation. , 2009, , .		6
159	Mobility of Sources and Listeners in IP Multicast-enabled Networks. , 2009, , .		0
160	FastM in WMN: A Fast Mobility Support Extension for Wireless Mesh Networks. , 2009, , .		3
161	Media Independent Handovers: LAN, MAN and WAN Scenarios. , 2009, , .		17
162	Advanced Mobility in Broadband Wireless Access Scenarios. , 2009, , .		7

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163	Optimizing Network Performance in Multihoming Environments. Lecture Notes in Computer Science, 2009, , 155-168.	1.3	0
164	IEEE 802.16 Packet Scheduling with Traffic Prioritization and Cross-Layer Optimization. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2009, , 272-281.	0.3	2
165	Multiparty Session and Network Resource Control in the Context Casting (C-CAST) Project. Lecture Notes in Computer Science, 2009, , 119-130.	1.3	5
166	Multicast/broadcast network convergence in next generation mobile networks. Computer Networks, 2008, 52, 228-247.	5.1	17
167	Broadband wireless real time communication. IEEE Vehicular Technology Magazine, 2008, 3, 39-47.	3.4	1
168	Seamless Mobility Architecture Supporting Ad-Hoc Environments. , 2008, , .		1
169	Quality of service differentiation support in WiMAX networks. , 2008, , .		7
170	Community Building over Neighborhood Wireless Mesh Networks. IEEE Technology and Society Magazine, 2008, 27, 48-56.	0.8	31
171	Support of mobility and QOS in broadcast unidirectional networks. , 2008, , .		0
172	Any-constraint personalized network selection. , 2008, , .		8
173	Performance Evaluation of Structured P2P over Wireless Multi-hop Networks. , 2008, , .		16
174	Limitations of the Integration of DVB Technologies in a Heterogeneous Environment. IEEE Vehicular Technology Conference, 2008, , .	0.4	1
175	Implementation and experimental evaluation of a fast local mobility protocol. , 2008, , .		0
176	An architecture for community mesh networking. , 2008, , .		2
177	A vendor-independent resource control framework for WiMAX. , 2008, , .		6
178	QoS Management of Multicast and Broadcast Services in Next Generation Networks. , 2007, , .		4
179	Preserving Privacy in Mobile Environments With Virtual Network Stacks. , 2007, , .		6
180	IMS - MBMS Integration: Functional Analysis & Architectural Design. , 2007, , .		3

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181	Experimental Evaluation of the Usage of Ad Hoc Networks as Stubs for Multiservice Networks. Eurasip Journal on Wireless Communications and Networking, 2007, 2007, 1.	2.4	4
182	Embedding identity in mobile environments. , 2007, , .		5
183	Mobility with QoS Support for Multi-Interface Terminals: Combined User and Network Approach. Proceedings - International Symposium on Computers and Communications, 2007, , .	0.0	13
184	Integration of mobility and qos in 4g scenarios. , 2007, , .		8
185	Accessing the Internet through Moving Networks. , 2007, , .		0
186	SIP and MIPv6: Cross-Layer Mobility. Proceedings - International Symposium on Computers and Communications, 2007, , .	0.0	5
187	WiMAX for Emergency Services: An Empirical Evaluation. , 2007, , .		12
188	A QoS Architecture Integrating Ad-Hoc and Infrastructure in Next Generation Networks. International Federation for Information Processing, 2007, , 25-37.	0.4	1
189	A secure wireless architecture to access a virtual electronic patient record. , 2006, , .		2
190	Accurate estimation of capacities and cross-traffic of all links in a path using ICMP timestamps. Telecommunication Systems, 2006, 33, 89-115.	2.5	6
191	HIP location privacy framework. , 2006, , .		9
192	Supporting Multicast in Ad-Hoc Networks in a Hotspot Context. International Federation for Information Processing, 2006, , 245-254.	0.4	0
193	Performance of Hierarchical Aggregation in Differentiated Services Networks. Telecommunication Systems, 2004, 27, 47-66.	2.5	0
194	<title>IP access networks with QoS support</title>. , 2001, , .		0
195	A WiMAX Cross-Layer Framework for Next Generation Networks. , 0, , 199-225.		0
196	Novel WiMAX Scenarios for Future Broadband Wireless Access Networks. , 0, , 45-67.		0
197	A privacyâ€‘focused approach for anomaly detection in IoT networks. International Journal of Network Management, 0, , e2154.	2.2	1
198	Prediction of low accessibility in 4G networks. Annales Des Telecommunications/Annals of Telecommunications, 0, , 1.	2.5	0

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199	Context-Aware Delivery of Multi-Party Communications. , 0, , 72-96.		0
200	Session and Network Support for Autonomous Context-Aware Multiparty Communications in Heterogeneous Mobile Systems. , 0, , 264-285.		1
201	The Cloud Inside the Network. Advances in Systems Analysis, Software Engineering, and High Performance Computing Book Series, 0, , 46-72.	0.5	2