

# Rafael Timteo de Sousa

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

151  
papers

832  
citations

14  
h-index

21  
g-index

210  
ext. papers

1,104  
ext. citations

2.9  
avg, IF

4.63  
L-index

#	Paper	IF	Citations
151	A Conversation-Driven Approach for Chatbot Management. <i>IEEE Access</i> , <b>2022</b> , 10, 8474-8486	3.5	0
150	Outcome of sex determination from ulnar and radial ridge densities of Brazilians' fingerprints: Applying an existing method to a new population.. <i>Science and Justice - Journal of the Forensic Science Society</i> , <b>2022</b> , 62, 181-192	2	0
149	Dynamics and structural transformations of carbon onion-like structures under high-velocity impacts. <i>Carbon</i> , <b>2022</b> , 189, 422-429	10.4	0
148	Evaluation of Peppermint Leaf Flavonoids as SARS-CoV-2 Spike Receptor-Binding Domain Attachment Inhibitors to the Human ACE2 Receptor: A Molecular Docking Study. <i>Open Journal of Biophysics</i> , <b>2022</b> , 12, 132-152	0.6	0
147	Channel-Based RSA Approaches for QoS Protection of Slices Over Elastic Optical Networks. <i>IEEE Access</i> , <b>2022</b> , 10, 20714-20726	3.5	
146	Evolutionary Strategy for Practical Design of Passive Optical Networks. <i>Photonics</i> , <b>2022</b> , 9, 278	2.2	2
145	ICT Governance and Management Macroprocesses of a Brazilian Federal Government Agency. <i>Information (Switzerland)</i> , <b>2022</b> , 13, 231	2.6	
144	Evaluating and Evolving the Compliance to the Brazilian General Data Protection Law in a Federal Government Agency. <i>Lecture Notes in Business Information Processing</i> , <b>2022</b> , 3-27	0.6	
143	Multi-Sensor Wearable Health Device Framework for Real-Time Monitoring of Elderly Patients Using a Mobile Application and High-Resolution Parameter Estimation.. <i>Frontiers in Human Neuroscience</i> , <b>2021</b> , 15, 750591	3.3	0
142	Development and Evaluation of an Intelligence and Learning System in Jurisprudence Text Mining in the Field of Competition Defense. <i>Applied Sciences (Switzerland)</i> , <b>2021</b> , 11, 11365	2.6	
141	Information-Theoretically Secure String Commitments Based on Packet Reordering Channels. <i>IEEE Access</i> , <b>2021</b> , 9, 139928-139945	3.5	
140	On the electronic structure of a recently synthesized graphene-like BCN monolayer from bis-BN cyclohexane with single-atom vacancies: a DFT study. <i>Electronic Structure</i> , <b>2021</b> , 3, 014006	2.6	0
139	Electronic and structural properties of Janus MoSSe/MoX <sub>2</sub> (X = S,Se) in-plane heterojunctions: A DFT study. <i>Chemical Physics Letters</i> , <b>2021</b> , 771, 138495	2.5	1
138	A Framework for Continuous Authentication Based on Touch Dynamics Biometrics for Mobile Banking Applications. <i>Sensors</i> , <b>2021</b> , 21,	3.8	3
137	Adversarial attacks on a lexical sentiment analysis classifier. <i>Computer Communications</i> , <b>2021</b> , 174, 154-171	3.1	1
136	Polaron transport in porous graphene nanoribbons. <i>Computational Materials Science</i> , <b>2021</b> , 194, 110423	3.2	
135	A DFT study on the electronic structure of in-plane heterojunctions of graphene and hexagonal boron nitride nanoribbons. <i>Electronic Structure</i> , <b>2021</b> , 3, 024005	2.6	0

134	Tensor based framework for Distributed Denial of Service attack detection. <i>Journal of Network and Computer Applications</i> , <b>2021</b> , 174, 102894	7.9	4
133	Noise-Robust Multilayer Perceptron Architecture for Distributed Denial of Service Attack Detection. <i>IEEE Communications Letters</i> , <b>2021</b> , 25, 402-406	3.8	3
132	Design of an Interactive Mobile Platform to Assist Communities in Voluntary Cooperation to Counter the COVID-19 Outbreak. <i>Advances in Intelligent Systems and Computing</i> , <b>2021</b> , 577-588	0.4	
131	Design and Evaluation of a Data Collector and Analyzer to Monitor the COVID-19 and Other Epidemic Outbreaks. <i>Advances in Intelligent Systems and Computing</i> , <b>2021</b> , 23-35	0.4	
130	Design of a Fog Controller to Provide an IoT Middleware with Hierarchical Interaction Capability. <i>Advances in Intelligent Systems and Computing</i> , <b>2021</b> , 280-292	0.4	0
129	Usability Assessment of a Jurisprudence System. <i>Lecture Notes in Computer Science</i> , <b>2021</b> , 482-499	0.9	
128	. <i>IEEE Access</i> , <b>2021</b> , 9, 129605-129618	3.5	2
127	IoT-based security service for the documentary chain of custody. <i>Sustainable Cities and Society</i> , <b>2021</b> , 71, 102940	10.1	2
126	Data Science Procedures to Aggregate Unstructured Disease Data in Georeferenced Spreading Analysis. <i>Advances in Intelligent Systems and Computing</i> , <b>2021</b> , 641-652	0.4	
125	Challenges Regarding the Compliance with the General Data Protection Law by Brazilian Organizations: A Survey. <i>Lecture Notes in Computer Science</i> , <b>2021</b> , 438-453	0.9	
124	Improved localization framework for autonomous vehicles via tensor and antenna array based GNSS receivers <b>2020</b> ,		2
123	. <i>IEEE Access</i> , <b>2020</b> , 8, 76368-76385	3.5	7
122	Robust tensor-based techniques for antenna array-based GNSS receivers in scenarios with highly correlated multipath components <b>2020</b> , 101, 102715		2
121	Transport of quasiparticles in coronene-based graphene nanoribbons. <i>Journal of Materials Chemistry C</i> , <b>2020</b> , 8, 12100-12107	7.1	5
120	Polaron Diffusion in Pentathienoacene Crystals. <i>Scientific Reports</i> , <b>2020</b> , 10, 7665	4.9	1
119	Data Security and Trading Framework for Smart Grids in Neighborhood Area Networks. <i>Sensors</i> , <b>2020</b> , 20,	3.8	1
118	Methodology for Forensics Data Reconstruction on Mobile Devices with Android Operating System Applying In-System Programming and Combination Firmware. <i>Applied Sciences (Switzerland)</i> , <b>2020</b> , 10, 4231	2.6	5
117	. <i>IEEE Access</i> , <b>2020</b> , 8, 95137-95152	3.5	0

116	IoT Fog-based Image Matching Monitoring System for Physical Access Control through IP Camera Devices <b>2020</b> ,		1
115	Malware Analysis Using the UnBox Tool. <i>Advances in Intelligent Systems and Computing</i> , <b>2020</b> , 127-135	0.4	
114	EvaTalk: A Chatbot System for the Brazilian Government Virtual School <b>2020</b> ,		2
113	Improving Data Security, Privacy, and Interoperability for the IEEE Biometric Open Protocol Standard. <i>IEEE Access</i> , <b>2020</b> , 1-1	3.5	
112	PROPOSTA DE CONSTRUÇÃO DE MODELO DE MATURIDADE EM GOVERNANÇA E GESTÃO DE TIC. <i>REAd: Revista Eletrônica De Administração</i> , <b>2020</b> , 26, 463-494	0.1	2
111	Charge Transport Mechanism in Chevron-Graphene Nanoribbons. <i>Journal of Physical Chemistry C</i> , <b>2020</b> , 124, 22392-22398	3.8	3
110	Continuous Diffusion Analysis. <i>IEEE Access</i> , <b>2020</b> , 8, 123735-123745	3.5	3
109	On the Elastic Properties and Fracture Patterns of MoX <sub>2</sub> (X = S, Se, Te) Membranes: A Reactive Molecular Dynamics Study. <i>Condensed Matter</i> , <b>2020</b> , 5, 73	1.8	3
108	Error-Robust Distributed Denial of Service Attack Detection Based on an Average Common Feature Extraction Technique. <i>Sensors</i> , <b>2020</b> , 20,	3.8	6
107	Information and Communication Technology (ICT) Governance Processes: A Case Study. <i>Information (Switzerland)</i> , <b>2020</b> , 11, 462	2.6	5
106	Tuning magnetic properties of penta-graphene bilayers through doping with boron, nitrogen, and oxygen. <i>Scientific Reports</i> , <b>2020</b> , 10, 16748	4.9	4
105	. <i>IEEE Access</i> , <b>2020</b> , 8, 174931-174942	3.5	3
104	Exploratory Overview on Breaking CAPTCHAs Using the Theory of the Consolidated Meta-Analytic Approach <b>2020</b> ,		1
103	Anonymous Real-Time Analytics Monitoring Solution for Decision Making Supported by Sentiment Analysis. <i>Sensors</i> , <b>2020</b> , 20,	3.8	5
102	Monitoring File Integrity Using Blockchain and Smart Contracts. <i>IEEE Access</i> , <b>2020</b> , 8, 198548-198579	3.5	4
101	The Answer is in the Text: Multi-Stage Methods for Phishing Detection Based on Feature Engineering. <i>IEEE Access</i> , <b>2020</b> , 8, 223529-223547	3.5	5
100	Stationary polaron properties in organic crystalline semiconductors. <i>Physical Chemistry Chemical Physics</i> , <b>2019</b> , 21, 2727-2733	3.6	6
99	Polaron properties in pentathienoacene crystals. <i>Synthetic Metals</i> , <b>2019</b> , 253, 34-39	3.6	5

98	Tuning the electronic structure properties of MoS monolayers with carbon doping. <i>Physical Chemistry Chemical Physics</i> , <b>2019</b> , 21, 11168-11174	3.6	7
97	Stationary and Dynamical Properties of Polarons in Anisotropic C60-Crystals. <i>Journal of Physical Chemistry C</i> , <b>2019</b> , 123, 13410-13418	3.8	4
96	Tensor-based multiple denoising via successive spatial smoothing, low-rank approximation and reconstruction for R-D sensor array processing <b>2019</b> , 89, 1-7		10
95	A nested-PARAFAC based approach for target localization in bistatic MIMO radar systems <b>2019</b> , 89, 40-48		3
94	Set of Usability Heuristics for Quality Assessment of Mobile Applications on Smartphones. <i>IEEE Access</i> , <b>2019</b> , 7, 116145-116161	3.5	21
93	Tensor-Based Channel Estimation for Massive MIMO-OFDM Systems. <i>IEEE Access</i> , <b>2019</b> , 7, 42133-42147	3.5	27
92	Low-Complexity and High-Accuracy Semi-blind Joint Channel and Symbol Estimation for Massive MIMO-OFDM. <i>Circuits, Systems, and Signal Processing</i> , <b>2019</b> , 38, 1114-1136	2.2	3
91	Low Cost Antenna Array Based Drone Tracking Device for Outdoor Environments. <i>Wireless Communications and Mobile Computing</i> , <b>2019</b> , 2019, 1-14	1.9	2
90	Polaron properties in 2D organic molecular crystals: directional dependence of non-local electron-phonon coupling. <i>Journal of Molecular Modeling</i> , <b>2019</b> , 25, 149	2	1
89	Joint DL and UL Channel Estimation for Millimeter Wave MIMO Systems Using Tensor Modeling. <i>Wireless Communications and Mobile Computing</i> , <b>2019</b> , 2019, 1-13	1.9	4
88	Corrections to Tensor-Based Channel Estimation for Massive MIMO-OFDM Systems <i>IEEE Access</i> , <b>2019</b> , 7, 121645-121645	3.5	0
87	Bipolaron Dynamics in Graphene Nanoribbons. <i>Scientific Reports</i> , <b>2019</b> , 9, 2909	4.9	12
86	Modeling Polaron Diffusion in Oligoacene-like Crystals. <i>Journal of Physical Chemistry C</i> , <b>2019</b> , 123, 4715-4720	3.2	5
85	Proposal of an Implementation Methodology of ICT Processes. <i>Information (Switzerland)</i> , <b>2019</b> , 10, 327	2.6	1
84	Dynamical Mechanism of Polarons and Bipolarons in Poly(p-Phenylene Vinylene). <i>Scientific Reports</i> , <b>2019</b> , 9, 18131	4.9	2
83	Tensor-Based Subspace Tracking for Time-Delay Estimation in GNSS Multi-Antenna Receivers. <i>Sensors</i> , <b>2019</b> , 19,	3.8	5
82	Effective Mass of Quasiparticles in Armchair Graphene Nanoribbons. <i>Scientific Reports</i> , <b>2019</b> , 9, 17990	4.9	4
81	Inference of driver behavior using correlated IoT data from the vehicle telemetry and the driver mobile phone <b>2019</b> ,		1

80	QoS Scheduling Algorithm for a Fog IoT Gateway <b>2019</b> ,		4
79	Spin-Orbit Effects on the Dynamical Properties of Polarons in Graphene Nanoribbons. <i>Scientific Reports</i> , <b>2018</b> , 8, 1914	4.9	7
78	Best Practices Kits for the ICT Governance Process within the Secretariat of State-Owned Companies of Brazil and Regarding these Public Companies. <i>Information (Switzerland)</i> , <b>2018</b> , 9, 141	2.6	6
77	Security Architecture and Protocol for Trust Verifications Regarding the Integrity of Files Stored in Cloud Services. <i>Sensors</i> , <b>2018</b> , 18,	3.8	5
76	Forensic Analysis of Android Runtime (ART) Application Heap Objects in Emulated and Real Devices. <i>Communications in Computer and Information Science</i> , <b>2018</b> , 130-147	0.3	
75	Extended ADDIE Model for improved Distance Learning Courses <b>2018</b> ,		2
74	Spatio-Temporal Trend Analysis of the Brazilian Elections Based on Twitter Data <b>2018</b> ,		2
73	A synthesis of common guidelines for regulatory compliance verification in the context of ICT governance audits <sup>1</sup> . <i>Information Polity</i> , <b>2018</b> , 23, 221-237	2.1	4
72	Exciton Diffusion in Organic Nanofibers: A Monte Carlo Study on the Effects of Temperature and Dimensionality. <i>Scientific Reports</i> , <b>2018</b> , 8, 14066	4.9	8
71	New DoS Defense Method Based on Strong Designated Verifier Signatures. <i>Sensors</i> , <b>2018</b> , 18,	3.8	9
70	Influence of quasi-particle density over polaron mobility in armchair graphene nanoribbons. <i>Physical Chemistry Chemical Physics</i> , <b>2018</b> , 20, 16712-16718	3.6	14
69	Security analysis of a proposed internet of things middleware. <i>Cluster Computing</i> , <b>2017</b> , 20, 651-660	2.1	18
68	Optimally tuned functionals improving the description of optical and electronic properties of the phthalocyanine molecule. <i>Journal of Molecular Modeling</i> , <b>2017</b> , 23, 71	2	10
67	Joint effect of jamming and noise on the secrecy outage performance of wiretap channels with feedback delay and multiple antennas. <i>Transactions on Emerging Telecommunications Technologies</i> , <b>2017</b> , 28, e3191	1.9	5
66	Non-orthogonal multiple access schemes with partial relay selection. <i>IET Communications</i> , <b>2017</b> , 11, 846-854	3.5	82
65	Optical and electronic structure description of metal-doped phthalocyanines. <i>Journal of Molecular Modeling</i> , <b>2017</b> , 23, 172	2	1
64	Model order selection and eigen similarity based framework for detection and identification of network attacks. <i>Journal of Network and Computer Applications</i> , <b>2017</b> , 90, 26-41	7.9	8
63	. <i>IEEE Transactions on Vehicular Technology</i> , <b>2017</b> , 66, 8807-8820	6.8	7

62	Combined UMC- DFT prediction of electron-hole coupling in unit cells of pentacene crystals. <i>Journal of Molecular Modeling</i> , <b>2017</b> , 23, 153	2	3
61	Secure Cooperative Half-Duplex Cognitive Radio Networks With $\$K\$$ -th Best Relay Selection. <i>IEEE Access</i> , <b>2017</b> , 5, 6678-6687	3.5	22
60	Offline Mode for Corporate Mobile Client Security Architecture. <i>Mobile Networks and Applications</i> , <b>2017</b> , 22, 743-759	2.9	3
59	<b>2017</b> ,		5
58	A DFT study of a set of natural dyes for organic electronics. <i>Journal of Molecular Modeling</i> , <b>2017</b> , 23, 3432		12
57	Elements that Orient the Regulatory Compliance Verification Audits on ICT Governance <b>2017</b> ,		5
56	Tracking intruders in IoT networks by means of DNS traffic analysis <b>2017</b> ,		4
55	Design and Evaluation of a Semantic Gateway Prototype for IoT Networks <b>2017</b> ,		7
54	Antenna array based framework with multipath mitigation for signal emitter detection and localization <b>2017</b> ,		1
53	Time-delay estimation via procrustes estimation and Khatri-Rao factorization for GNSS multipath mitigation <b>2017</b> ,		4
52	Increasing the Dependability of IoT Middleware with Cloud Computing and Microservices <b>2017</b> ,		5
51	Distributed Data Service for Data Management in Internet of Things Middleware. <i>Sensors</i> , <b>2017</b> , 17,	3.8	22
50	Cybersecurity and Network Forensics: Analysis of Malicious Traffic towards a Honeynet with Deep Packet Inspection. <i>Applied Sciences (Switzerland)</i> , <b>2017</b> , 7, 1082	2.6	14
49	Detection of Electronic Anklet Wearers Groupings throughout Telematics Monitoring. <i>ISPRS International Journal of Geo-Information</i> , <b>2017</b> , 6, 31	2.9	0
48	A Technique for Extraction and Analysis of Application Heap Objects within Android Runtime (ART) <b>2017</b> ,		3
47	A Proposed Protocol for Periodic Monitoring of Cloud Storage Services Using Trust and Encryption. <i>Lecture Notes in Computer Science</i> , <b>2016</b> , 45-59	0.9	1
46	On the Effects of LOS Path and Opportunistic Scheduling in Energy Harvesting Relay Systems. <i>IEEE Transactions on Wireless Communications</i> , <b>2016</b> , 15, 8506-8524	9.6	10
45	Secrecy performance of MIMO Nakagami-m wiretap channels with optimal TAS and different antenna schemes. <i>Transactions on Emerging Telecommunications Technologies</i> , <b>2016</b> , 27, 828-841	1.9	9

44	Design and Evaluation of a Services Interface for the Internet of Things. <i>Wireless Personal Communications</i> , <b>2016</b> , 91, 1711-1748	1.9	8
43	Leveraging information security and computational trust for cybersecurity. <i>Journal of Supercomputing</i> , <b>2016</b> , 72, 3729-3763	2.5	6
42	MISO TAS wiretap channels with jamming and noise at the eavesdropper <b>2016</b> ,		2
41	Optimizing the Access Records of Students in the Moodle Virtual Learning Environment Database. <i>IFAC-PapersOnLine</i> , <b>2016</b> , 49, 98-101	0.7	2
40	Energy harvesting relay systems in mixed Rician and Rayleigh fading: The effects of LOS path component <b>2016</b> ,		3
39	A methodology for quality assurance for business process modeling with BPMN: A case study for the SIGEPE software <b>2016</b> ,		2
38	Improved Kalman-based attitude estimation framework for UAVs via an antenna array <b>2016</b> , 59, 49-65		6
37	Software documentation quality: A case study for the software documentation of SIGEPE <b>2015</b> ,		2
36	Implementing interoperability in a Brazilian seismic event database <b>2015</b> ,		2
35	Business process modelling: A study case within the Brazilian Ministry of Planning, Budgeting and Management <b>2014</b> ,		2
34	Extension of the Brazilian Federal government Budget ontology to support the representation of geolocated human development indicators <b>2014</b> ,		1
33	Energy harvesting photovoltaic system to charge a cell phone in indoor environments <b>2014</b> ,		2
32	A ubiquitous communication architecture integrating transparent UPnP and REST APIs. <i>International Journal of Embedded Systems</i> , <b>2014</b> , 6, 188	0.5	10
31	Analysis of SDN Contributions for Cloud Computing Security <b>2014</b> ,		7
30	Proposal of a secure, deployable and transparent middleware for Internet of Things <b>2014</b> ,		7
29	Secure data storage in distributed cloud environments <b>2014</b> ,		1
28	Improved Business Intelligence Solution with Reimbursement Tracking System for the Brazilian Ministry of Planning, Budget and Management <b>2014</b> ,		2
27	IoT architecture to enable intercommunication through REST API and UPnP using IP, ZigBee and arduino <b>2013</b> ,		14



26	Using cooperative MIMO techniques and UAV relay networks to support connectivity in sparse Wireless Sensor Networks <b>2013</b> ,		22
25	Applying Cooperative MIMO Technique in an Adaptive Routing Mechanism for Wireless Sensor Networks <b>2013</b> ,		1
24	Using MIMO Techniques to Enhance Communication Among Static and Mobile Nodes in Wireless Sensor Networks <b>2013</b> ,		4
23	Trust-based security for the OLSR routing protocol. <i>Computer Communications</i> , <b>2013</b> , 36, 1159-1171	5.1	40
22	Intelligent and Flexible Manufacturing Product Line Supported by Agents and Wireless Sensor and Actuator Network. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2013</b> , 46, 222-227		2
21	Synchronization for Cooperative MIMO in Wireless Sensor Networks. <i>Lecture Notes in Computer Science</i> , <b>2013</b> , 298-311	0.9	3
20	Trust model for private cloud <b>2012</b> ,		6
19	Evaluating Trust in Ad Hoc Network Routing by Induction of Decision Trees. <i>IEEE Latin America Transactions</i> , <b>2012</b> , 10, 1332-1343	0.7	5
18	File Exchange in a Private Cloud Supported by a Trust Model <b>2012</b> ,		4
17	Efficient Fully Simulatable Oblivious Transfer from the McEliece Assumptions. <i>IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences</i> , <b>2012</b> , E95.A, 2059-2066	0.4	4
16	Multi-dimensional model order selection. <i>Eurasip Journal on Advances in Signal Processing</i> , <b>2011</b> , 2011,	1.9	39
15	A Formal Classification of Internet Banking Attacks and Vulnerabilities. <i>International Journal of Computer Science and Information Technology</i> , <b>2011</b> , 3, 186-197	0.6	19
14	Subspace based multi-dimensional model order selection in colored noise scenarios <b>2011</b> ,		3
13	Trust-Based Countermeasures for Securing OLSR Protocol <b>2009</b> ,		9
12	On the Vulnerabilities and Protections of the OLSR ad hoc Routing Protocol from the point of view of Trust. <i>IEEE Latin America Transactions</i> , <b>2009</b> , 7, 594-602	0.7	4
11	Autonomic trust reasoning enables misbehavior detection in OLSR <b>2008</b> ,		19
10	Enhancing an Integer Challenge-Response Protocol. <i>Lecture Notes in Computer Science</i> , <b>2008</b> , 526-540	0.9	
9	Solving incompatibilities between electronic records for orthodontic patients. <i>American Journal of Orthodontics and Dentofacial Orthopedics</i> , <b>2007</b> , 132, 116-21	2.1	8

8	Integrating trust reasonings into node behavior in olsr <b>2007</b> ,			5
7	Analysis of the implicit trust within the OLSR protocol. <i>International Federation for Information Processing</i> , <b>2007</b> , 75-90			2
6	Load Balancing and Survivability for Network Services Based on Intelligent Agents. <i>Lecture Notes in Computer Science</i> , <b>2004</b> , 868-881	0.9		0
5	Survivability for a Network Service and Load Balancing Using Intelligent Agents Software. <i>Lecture Notes in Computer Science</i> , <b>2004</b> , 734-744	0.9		0
4	Preventive and Corrective Protection for Mobile Ad Hoc Network Routing Protocols. <i>Lecture Notes in Computer Science</i> , <b>2004</b> , 213-226	0.9		1
3	Certification and Authentication Services for Securing MANET Routing Protocols <b>2003</b> ,			5
2	Trust Management in Ad Hoc Networks 224-249			1
1	Estudo de caso de desenvolvimento de plataforma de cloud governamental para TI bimodal. <i>Revista Científica Multidisciplinar Nêleo Do Conhecimento</i> , 126-150		0.2	