Fabrizio Granelli

DISI – University of Trento, Via Sommarive 9, 38123 Trento (TN), ITALY
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Summary

Fabrizio Granelli is Full Professor at the Dept. of Information Engineering and Computer Science (DISI) of the University of Trento (Italy), IEEE ComSoc Distinguished Lecturer for 2021-24 and IEEE ComSoc Director for Conference Development for 2022-23. From 2012 to 2014, he was Italian Master School Coordinator in the framework of the European Institute of Innovation and Technology ICT Labs Consortium. He was Delegate for Education at DISI in 2015-2016 and member of the Executive Committee of the Trentino Wireless and Optical Testbed Lab in 2012-16. He was IEEE ComSoc Distinguished Lecturer for 2012-15, IEEE ComSoc Director for Online Content in 2016-17 and IEEE ComSoc Director for Educational Services in 2018-19. From 2018 he is collaborating with University of New Mexico, Albuquerque, NM, USA as Research Associate Professor. He was visiting professor at the State University of Campinas (more than six months - SP, Brazil) and The University of Tokyo (two months - Tokyo, Japan). Since November 2022, he is Rector's Delegate for Information Technology and Services, and from January 2023 he is Program Lead for the EIT Digital Master School Major on Cloud and Network Infrastructures.

Prof. Granelli was Chair of the Joint IEEE VTS/ComSoc Italian Chapter (2018-21) and coordinator of the research and didactical activities on Next Generation Networks at DISI. He was advisor of more than 100 B.Sc. and M.Sc. theses and 12 Ph.D. theses. Since 2000 he is consistently teaching networking courses at the University of Trento (at B.Sc., M.Sc. and Ph.D. levels), at least covering 18 ECTS per academic year (24 ECTS in 2018/19, 27 ECTS in 2021/22).

He is currently Associate Editor-in-Chief of the IEEE Communications Surveys and Tutorial journal, Senior Editor of the IEEE Transactions on Green Communications and Networking, and Associate Editor of IEEE Communications Magazine.

He is author or co-author of more than 250 papers published in international journals (more than 100), books and conferences in networking, with reference to wireless networks, cognitive radios and networks, green networking and softwarized networking, AI for communications and networks. His research activities are currently focused on modeling, virtualization and resource allocation in wireless and mobile networks, with focus on 5G and beyond cellular networks and novel data/audiovisual mobile communication services.

He demonstrated good capabilities in R&D, by coordinating research teams at national and international levels as local or general coordination of research projects, for a total of more than 16 MEuros of funding.

H-index (March. 1, 2024): 39 (Google Scholar), 32 (Scopus)

Employment History

Full Professor (ING-INF/03, 09/F2)   **[13 Dec. 2021-now]**
University of Trento (Italy)

Associate Professor (ING-INF/03, 09/F2)   **[1 Dec. 2010-12 Dec. 2021]**
University of Trento (Italy)

Assistant Professor (ING-INF/03)   **[1 Sept. 2000-30 Nov. 2010]**

University of Trento (Italy)

Education / Titles

Italian Habilitation for Full Professorship (Abilitazione nazionale Prof. Ordinario – Settore 09/F2). [2017-2023]

Italian Ministry of Education, Research and University (MIUR)

Ph.D. in Telecommunications Engineering   **[1997-2001]**

University of Genoa (Italy)
Dissertation title: "Advanced Processing Techniques for Multimedia Communications"
Advisors: Prof. G. Vernazza, Prof. S. Serpico

M.Sc. Degree in Electronics Engineering.   **[1991-1997]**

University of Genoa (Italy)
Thesis title: "Video coding using autocompensation of the motion field and vector quantization of the difference field"
Advisor: Prof. S. Serpico, Co-Advisor: Dr. M. Accame

Fellowships

Research Associate Professor   **[June 2018-May 2021 & Sept. 2022-Aug. 2025]**

University of New Mexico, NM, USA

Visiting Professor   **[April 2016, September 2016, March 2018]**

The University of Tokyo, Tokyo, Japan

Visiting Professor   **[August 2016]**

State University of Campinas (UNICAMP), SP, Brazil

Visiting Professor   [August- September 2015]

State University of Campinas (UNICAMP), SP, Brazil

Visiting Professor   **[August 2014]**

State University of Campinas (UNICAMP), SP, Brazil

Visiting Professor   **[April-May 2013]**

State University of Campinas (UNICAMP), SP, Brazil

Visiting Professor   **[August 2010]**

State University of Campinas (UNICAMP), SP, Brazil

Visiting Professor   **[August 2004]**

State University of Campinas (UNICAMP), SP, Brazil

Positions in IEEE and ComSoc

Director for Conference Development, IEEE ComSoc [2022-2023]

IEEE ComSoc

Chair, IEEE P1954 Standardization Working Group [2022-2025]

IEEE ComSoc / Standards Association

Distinguished Lecturer, IEEE ComSoc (two terms) [2021-2024]

IEEE ComSoc

Chair and Founder, IEEE ComSoc Aerial Communications ETI [2020-now]

IEEE ComSoc Aerial Communications ETI

Chair, IEEE ComSoc TAOS Technical Committee [2019-2020]

IEEE ComSoc Transmission, Access and Optical Systems TC

IEEE ComSoc Director for Educational Services [2018-2019]
IEEE Communications Society

Chair, IEEE Joint VTS/ComSoc Italy Chapter [2018-2021]
IEEE Italy Section

Vice-Chair, IEEE ComSoc TAOS Technical Committee [2017-2018]

IEEE ComSoc Transmission, Access and Optical Systems TC

IEEE ComSoc Director for Online Content [2016-2017]
IEEE Communications Society

Chair, IEEE ComSoc Standardization Research Group on Software Defined and Virtualized Wireless Access
[2014-2016]

IEEE Communications Society

IEEE ComSoc Distinguished Lecturer (two terms) [2012-2015]
IEEE Communications Society

Member-at-Large [2014-2015]
IEEE Globecom/ICC Technical Committee (GITC)

Secretary, IEEE ComSoc TAOS Technical Committee [2015-2016]

IEEE ComSoc Transmission, Access and Optical Systems TC

Chair, IEEE ComSoc CSIM Technical Committee [2009-2010]
IEEE ComSoc Communications Systems Integration and Modeling TC

Vice-Chair, IEEE ComSoc CSIM Technical Committee [2007-2008]
IEEE ComSoc Communications Systems Integration and Modeling TC

Secretary, IEEE ComSoc CSIM Technical Committee [2005-2006]

IEEE ComSoc Communications Systems Integration and Modeling TC

Senior Member, IEEE [2005]

IEEE

Organization Committees

General Co-Chair [2024]

IEEE International Conference on Machine Learning for Communications and Networking 2024

Technical Program Committee Chair [2023]

IEEE Smart Grid Com 2023

Workshop Co-Chair [2023]

IEEE Globecom 2023 Workshop on "The path towards 6G: Standardization and Research Vision"

Workshop Co-Chair [2023]

IEEE ICC 2023 Workshop on "CyberNet: Cyber-Physical Security in Mission-Critical Tactical Networks"

Technical Program Committee Chair [2022]

IEEE Globecom 2022

Steering Committee Chair [2022-now]

IEEE NF-SDN conference

Symposium Co-Chair, Green Communications and Networking [2022]

IEEE ICC

Workshop Co-Chair [2021-now]

IEEE DroneCom @ IEEE Infocom

Tutorials Co-Chair [2021]

IEEE Meditcom 2021

General Co-Chair [2021]

IEEE LATINCOM 2021

Workshops Co-Chair [2020]

IEEE NFV SDN 2020

General Chair [2020->21]

European Wireless 2020 (moved to 2021 for COVID-19 outbreak)

General Chair [2020]

IEEE LATINCOM 2020

Technical Program Chair   [2020]

ISAECT 2020

**Symposium Co-Chair, SAC – Access Networks & Systems
and Power Line Communications**   [2020]

IEEE ICC

Technical Program Co-Chair   [2019]

IEEE NFV SDN 2019

Technical Program Co-Chair   [2018]

IEEE NFV SDN 2018

Symposium Co-Chair, Green Communications and Networking   [2018]

IEEE ICC

Symposium Co-Chair, Green Computing, Networking and Communication Systems   [2018]

International Conference on Computing, Networking and Communications (ICNC 2018)

GITC Advisor, IEEE ICC 2017   [2017]

IEEE ICC

Workshops Co-Chair, IEEE ICC 2016   [2016]

IEEE ICC

Founder, General Chair, IEEE ComSoc Summer School   [2015, 2016]

IEEE Communications Society Summer School

Symposium Co-Chair, SAC – Green Communications and Networking Track   [2014]

IEEE Globecom

Steering Committee Chair, IEEE CAMAD   [2013-now]

IEEE Workshop on Computer-Aided Modeling, Analysis and Design of Communication Links and Networks

Symposium Co-Chair, Communications QoS, Reliability and Modeling   [2007-2009, 2012]

IEEE Globecom

General Chair, IEEE CAMAD   [2006, 2010, 2013]

IEEE Workshop on Computer-Aided Modeling, Analysis and Design of Communication Links and Networks

TPC Chair, IEEE CAMAD   [2004, 2008]

IEEE Workshop on Computer-Aided Modeling, Analysis and Design of Communication Links and Networks

Founder, General Co-Chair, WICON and MOBILIGHT   [2005, 2009]

International Conference on Wireless Internet

Editorial Boards (Associate Editor / Editor-in-Chief positions)

IEEE Communications Surveys and Tutorials   [2007-2017]
IEEE, Associate Editor

International Journal on Communication Systems   [2007-2019]
Wiley

IEEE Communications Letters   [2007-2011]
IEEE, Associate Editor

Journal on Wireless Communications and Networking   [2008-2011]
EURASIP, Associate Editor

IEEE Journal on Selected Areas in Communications - Series on Green Communications and Networking
[2015-2016]

IEEE, Associate Editor

IEEE Transactions on Green Communications and Networking   [2016-2020]
IEEE, Area Editor

IEEE Communications Surveys and Tutorials   [2017-2022]
IEEE, Associate Editor-in-Chief

IEEE Communications Magazine   [2018-now]
IEEE, Associate Editor

IEEE Transactions on Green Communications and Networking   [2020-now]
IEEE, Senior Editor

Guest Editorial Activity

ACM Journal on Mobile Networks and Applications
WLAN Optimization at the MAC and Network Levels (2005)
Ultra-Wide Band for Sensor Networks (2006)
Recent Advances in IEEE 802.11 WLANs: Protocols, Solutions and Future Directions (2009)

ACM TOMACS
Modeling and Simulation of Cross-Layer Interactions in Communication Networks (2010)

Hindawi Journal of Computer Systems, Networks and Communications
Lightweight Mobile and Wireless Systems: Technologies, Architectures and Services (2010)

IEEE Communications Magazine
Feature Topic "Energy Efficient Cognitive Radio Networks" (2014)

IEEE Communications Surveys and Tutorials

Energy and the Smart Grid (2014)

Digital Communications and Networks
Mobile edge computing (6 (2), 187-188, 2020)
P Chatzimisios, F Granelli, RM Abid

IEEE Transactions on Intelligent Transportation Systems
Intent-based Networking for 5G-Envisioned Internet of Connected Vehicles (2020)

Elsevier Sustainable Cities and Societies
COVID-19 and alike Crisis Control in Smart Healthy Cities (2021)

Hindawi Mobile Communications and Mobile Computing
Quantum Communication Networks (2021)

IEEE Wireless Communications Magazine
AI for Open Programmable Virtualized Networks in 6G (2022)

Didactic Activity and Services

Program Lead, Cloud and Network Infrastructures   [2023-now]

EIT Digital Master School

Rector's Delegate for Information Technology and Services [Nov. 2022-now]

University of Trento

Delegate for Internationalization   [2022-now]

DISI – University of Trento

Delegate for EIT Digital   [2022-now]

DISI – University of Trento / European Institute of Technology

Delegate for Tutors and Teaching Support   [2018-now]

DISI – University of Trento

Local Coordinator of the Cloud and Networking Infrastructure EIT Digital Major [2011-now]

EIT Digital Trento (formerly Internet Technology and Architectures)

ECE-595 Network Softwarization course (48 hours)   [2020-21]

University of New Mexico (NM, USA)

Delegate for Education   [2015-2016]

DISI – University of Trento

Master School Coordinator for Italy   [2012-2014]

European Institute of Innovation and Technology ICT Labs Consortium (now EIT Digital)

Network Modeling and Design course (72 hours)   [2002-now]

M.Sc. Degree in Telecommunications Engineering → Now "Networking I"

Networking (Reti) course (48 hours)   [2001-now]

B.Sc. Degree in Information and Communications Engineering

Design of Networks and Communication Systems course (48 hours) [2010-2021]

B.Sc. and M.Sc. Degrees in Telecommunications Engineering

Digital Signal Processing course (48 hours)   [2001-2007]

M.Sc. Degree in Telecommunications Engineering

Softwarized and Virtualized Mobile Networks (formerly Wireless Networks) course (48 hours)   [2019-21]

M.Sc. Degree in Telecommunications Engineering → Now "Networking II"

Next Generation Networks course (48 hours)   [2021-2022]

B.Sc. Degree in Information and Communications Engineering

Tutorials, Keynotes and Invited Speeches

Computing in Communication Networks (course)   [2021-now]

ComSoc Portfolio Course (8 hours, 3 times / year)

Energy efficient networks & computing at the network edge (keynote)   [2022-23]

Keynote @ IEEE Latincom 2022 & @ IEEE ICC 2023 Workshop

Computing in Communication Networks (tutorials) [2019-2022]

@ IEEE Globecom 2019, IEEE VTC 2020 Spring, IEEE NetSoft 2020, IEEE VTC 2020 Fall, IEEE Globecom 2020, IEEE NFV SDN 2020, IEEE CCNC 2021, IEEE NetSoft 2021, IEEE NFV-SDN 2021, IEEE NetSoft 2022, IEEE ICC 2022

Virtualization and Softwarization in Wireless Networks: Overview and Perspectives (keynote) [2019]

@ IEEE Black Sea Comm 2019

5G Network Slicing (tutorial) [2018-19]

@ IEEE WCNC'18, IEEE ICC 2018, IEEE NFV SDN 2018, IEEE Black Sea Comm 2019

Virtualization and 5G (tutorial) [2017]

@ European Wireless, IEEE WCNC'17

Energy Efficiency in Wireless/5G Networks (tutorial) [2014-16]

@ MASCOTS 2014, IEEE VTC FALL 2014, IEEE CCNC'15, IEEE Globecom'15, IEEE CCNC'16, IEEE WCNC'16
@ IEEE ICC 2016 (**most attended tutorial of the conference**)

Communications for the Smart Grid (invited speech) [2016]

@ International Summer School on Hybrid Microgrids (Pavia, July 11-15, 2016)

Virtualization and 5G Networks (keynote speech) [2016]

@ IEEE ICC 2016 Workshop on "Novel Medium Access and Resource Allocation for 5G Networks"

Communications for the Smart Grid (invited speech) [2013]

@ SBRC 2013

Communications for Power Engineers (tutorial) [2011]

@ IEEE SmartGridComm 2011

Cognitivity in TCP/IP Networks (invited speech) [2010]

@ IEEE Globecom 2010 Workshop on "Mobile Computing and Emerging Communication Networks"

Major Research Projects

Holistic, Omnipresent, Resilient Services for Future 6G Wireless and Computing Ecosystems (HORSE)
[2023-2025]

EU Horizon-JU-RIA, Topic: HORIZON-JU-SNS-STREAM-B-01-04, **_Role: Consortium Coordinator_**, Budget: 7MEuros (692k Euros for CNIT)

PNRR CN1 Spoke 9 "Digital Society and Smart Cities"   **[2022-2025]**

PNRR, **_Role: UniTN Coordinator_**, Budget: 609 kEuros

Knowledge as a Service (KaaS) – Phase III   **[2022]**

IEEE, **_Role: Coordinator_**, Budget: 120k$ (70k$ for CNIT)

End-to-end Fiber and 5G   **[2021]**

OXYS S.r.l., **_Role: Coordinator_**, Budget: 60k$

Knowledge as a Service (KaaS) – Phase II   **[2021]**

IEEE, **_Role: Coordinator_**, Budget: 100k$ (80k$ for CNIT)

DAVOSS   **[2018-2021]**

NATO Science for Peace Programme, **_Role: Coordinator_**, Budget: 270 kEuros

Knowledge as a Service (KaaS) – Phase I   **[2020]**

IEEE, **_Role: Coordinator_**, Budget: 80k$ (55k$ for CNIT)

TEAM   **[2014-2018]**

Mobility project w/Japan and S.Korea, European Union

e2CALL   **[2013-2016]**
FIAT Research Center, **_Role: Coordinator_**, Budget: 85 kEuros

SUSTAINABLE INTERNET   **[2013-2015]**
Science without Frontiers, Brazilian government

FITTING, EV2GRID   **[2013]**
European Institute of Innovation and Technology, Budget: 35 kEuros

GREENET   **[2011-2014]**
EU Marie Curie Initial Training Network, Budget: 480 kEuros

MOTUS   **[2009-2014]**
Italian Ministry of Economic Development, Budget: 975 kEuros

Microwave Packet Radio Algorithms Proposals and Simulations   **[2009-2010]**
Alcatel Lucent, **_Role: Coordinator_**, Budget: 50 kEuros

ISAC, EUBRANEX   [2008-2010]

EU ERASMUS MUNDUS, Coordinator for Univ. of Trento

WORLD   [2008-2010]

Italian Ministry of Education and Research, Budget: 47.5 kEuros

Joint Mobility Projects   [2008-2010]

Italy-Japan, Italy-USA, Italy-Brazil

SAFESPOT - Smart Vehicles on Smart Roads   [2005-2008]

EU Integrated Project, Budget: 150 kEuros

Awards

Best paper award   [2023]

IEEE 13th Annual Computing and Communication Workshop and Conference

2018 Distinguished Technical Achievement Recognition Award   [2018]

IEEE ComSoc Green Communications and Computing Technical Committee

Italian Habilitation for Full Professorship   [2017]

Italian Ministry of Education, Research and University (MIUR)

Exemplary Editor   [2015]

IEEE Communications Surveys and Tutorials

Best paper award   [2014]

IEEE U-MEDIA 2014

Best paper award   [2012]

IEEE CAMAD 2012

Excellent reviewer and editorial member   [2011]

IEEE Communications Surveys and Tutorials

TELECOM Italy Best thesis award [1997]

Telecom Italy

Main International Collaborations:

Istituzione	Paese	Contatto	Argomento
Stanford University	CA, USA	Prof. A. Goldsmith	Resource allocation
State University of Campinas	SP, Brasil	Prof. Nelson L.S. da Fonseca	Network modelling
The University of New Mexico	NM, USA	Prof. Michael Devetsikiotis	5G Slicing and IoT
The University of Tokyo	Japan	Prof. Akihiro Nakao	Network Slicing and 5G
CTTC	Spain	Prof. C. Verikoukis	Network virtualization and 5G
Nokia Systems	Germany	Dr. S. Redana	LTE / 5G
TU Dresden	Germany	Prof. F. Fitzek, Prof. R. Bassoli	Network coding, low latency, quantum comms

PUBLICATIONS LIST

0. Authored Books (1)

Computing in Communication Networks – From Theory to Practice
F. Fitzek, F. Granelli, P. Seeling
Elsevier Academic Press, May 2020, **Paperback ISBN:** 9780128204887.
https://www.elsevier.com/books/computing-in-communication-networks/fitzek/978-0-12-820488-7

1. Journal Publications (106)

The Role of Socioeconomic Factors in Improving the Performance of Students Based on Intelligent Computational Approaches
Y Muhammad, MA Hassan, S Almotairi, K Farooq, F Granelli, ...
Electronics 12 (9), 2023

A Framework to define a Measurement-Based Model of MEC Nodes in the 5G System
R Fedrizzi, CE Costa, F Granelli
IEEE Networking Letters, 2023.

An Intelligent Multi-Floor Navigational System Based on Speech, Facial Recognition and Voice Broadcasting Using Internet of Things
M Ullah, X Li, MA Hassan, F Ullah, Y Muhammad, F Granelli, L Vilcekova, ...
Sensors 23 (1), 275, 2023

An adaptive GA-based slice provisioning method for vertical industries in 5G and beyond networks
R Fedrizzi, R Behravesh, C Costa, F Granelli
Computer Networks 218, 109397, 2022.

A New Agent-Based Intelligent Network Architecture
ST Arzo, D Scotece, R Bassoli, F Granelli, L Foschini, FHP Fitzek
arXiv preprint arXiv:2211.01924, accepted for publication on J-IOT

Guest Editorial: AI for Open Programmable Virtualized Networks in 6G
F Granelli, CE Costa, M Erol-Kantarci, J Zheng
IEEE Wireless Communications 29 (5), 10-11

Foreword to the Special Section on Information and Communication Technologies (ICT) for a New Space Vision
C Sacchi, F Granelli, M Marchese, K Cheung, M Noble
IEEE Transactions on Aerospace and Electronic Systems 58 (5), 3743-3745, 2022.

Multi-Agent-Based Traffic Prediction and Traffic Classification for Autonomic Network Management Systems for Future Networks
ST Arzo, Z Akhavan, M Esmaeili, M Devetsikiotis, F Granelli
Future Internet 14 (8), 230, 2022.

Impact of Background Traffic on the BBR and CUBIC Variants of the TCP Protocol
DM Casas-Velasco, F Granelli, NLS da Fonseca
IEEE Networking Letters 4 (3), 147-151, 2022.

An Analytical Study on Functional Split in Martian 3D Networks
S Bonafini, C Sacchi, R Bassoli, F Granelli, K Kondepu, FHP Fitzek
IEEE Transactions on Aerospace and Electronic Systems, 2022.

Towards the Sign Function Best Approximation for Secure Outsourced Computations and Control
M Babenko, A Tchernykh, B Pulido-Gaytan, A Avetisyan, S Nesmachnow, ...

Mathematics 10 (12), 2006, 2022.

End-to-end performance assessment of a 3D network for 6G connectivity on Mars surface
S Bonafini, C Sacchi, R Bassoli, K Kondepu, F Granelli, FHP Fitzek
Computer Networks, 109079, 2022.

A Novel Architecture for Future Classical-Quantum Communication Networks
F Granelli, R Bassoli, J Nötzel, FHP Fitzek, H Boche, NLS da Fonseca
Wireless Communications and Mobile Computing 3, 2022.

Essential Technologies and Concepts for Massive Space Exploration: Challenges and Opportunities
ST Arzo, D Sikeridis, M Devetsikiotis, F Granelli, R Fierro, M Esmaeili, ...
IEEE Transactions on Aerospace and Electronic Systems, 2022.

Special issue on selected papers from the IEEE Latin America on Communications (LATINCOM)
F Granelli, O Caicedo, GB Figueiredo, NLS da Fonseca
Photonic Network Communications, 1-2, 2022.

MSN: A Playground Framework for Design and Evaluation of MicroServices-Based sdN Controller
ST Arzo, D Scotece, R Bassoli, D Barattini, F Granelli, L Foschini, ...
Journal of Network and Systems Management 30 (1), 1-31, 2022.

Guest Editorial Special Issue on Intent-Based Networking for 5G-Envisioned Internet of Connected Vehicles
S Garg, M Guizani, YC Liang, F Granelli, N Prasad, RRV Prasad
IEEE Transactions on Intelligent Transportation Systems 22 (8), 5009-5017, 2021.

Evaluating a Digital Twin of an IoT Resource Slice: an Emulation Study using the ELIoT Platform
F. Granelli, R. Capraro, M. Lorandi and P. Casari
IEEE Networking Letters, doi: 10.1109/LNET.2021.3097556.

A Survey on Technologies, Standards and Open Challenges in Satellite IoT
Marco Centenaro, Cristina E. Costa, Fabrizio Granelli, Claudio Sacchi, Lorenzo Vangelista
IEEE Communications Surveys and Tutorials, 23 (3), 1693-1720, 2021.

Guest Editorial: Softwarized Networking for Next Generation Industrial Cyber-Physical Systems
S Garg, H Wang, F Granelli, H Li
IEEE Transactions on Industrial Informatics 17 (8), 5506-5510, 2021.

A Theoretical Discussion and Survey of Network Automation for IoT: Challenges and Opportunity
ST Arzo, C Naiga, F Granelli, R Bassoli, M Devetsikiotis, FHP Fitzek
IEEE Internet of Things Journal, 8 (15), 12021-12045, 2021.

An Open Source Testbed for Virtualized Communication Networks
Z Xiang, S Pandi, J Cabrera, F Granelli, P Seeling, FHP Fitzek
IEEE Communications Magazine 59 (2), pp. 77-83, 2021

Global communications newsletter
S Bregni, NGR Cely, F Granelli, C Lozano, O Dobre, O Caicedo, ...
IEEE Communications Magazine 59 (2), pp. 5-8, 2021

Multi-Agent Based Autonomic Network Management Architecture
ST Arzo, R Bassoli, F Granelli, FHP Fitzek
IEEE Transactions on Network and Service Management, 2021, in press

IEEE Latin-American Conference on Communications 2020 (LATINCOM)
F Granelli, C Lozano, O Dobre, O Caicedo, GC Florez Navarro, ...

IEEE COMMUNICATIONS MAGAZINE 59 (2), pp. 6-6, 2021

Member Services Board: New Services for a New World Interview with Ricardo Veiga, Director of Member Services
S Bregni, F Granelli
IEEE COMMUNICATIONS MAGAZINE 59 (1), 2021

Special issue on" mobile edge computing"
P Chatzimisios, F Granelli, RM Abid
DIGITAL COMMUNICATIONS AND NETWORKS 6 (2), 187-188, 2020

Design of an On-Demand Agile 5G Multi-Access Edge Computing Platform Using Aerial Vehicles
F Granelli, C Costa, J Zhang, R Bassoli, FHP Fitzek
IEEE Communications Standards Magazine 4 (4), 34-41

Global Communications Newsletter
F Benedetto, S Ullo, B Masini, G Pasolini, F Granelli, TM Syed, E Tan, ...
IEEE Communications Magazine 58 (10), 9-12, 2020.

Development of Cluster-Based Energy Management Scheme for Residential Usages in the Smart Grid Community
MMU Rashid, F Granelli, M Hossain, M Alam, FS Al-Ismail, R Shah
Electronics 9 (9), 2020.

Study of Virtual Network Function Placement in 5G Cloud Radio Access Network
ST Arzo, R Bassoli, F Granelli, FHP Fitzek
IEEE Transactions on Network and Service Management, 2020

Development of Home Energy Management Scheme for a Smart Grid Community
MMU Rashid, F Granelli, M Hossain, M Alam, FS Al-Ismail, AK Karmaker, ...
Energies 13 (17), 2020

A business and legislative perspective of V2X and mobility applications in 5G networks
Usman, M., Qaraqe, M., Asghar, M.R., (...), Granelli, F., Abbasi, Q.H.
IEEE Access, Vol. 8, pp. 67426-67435, 2020

CubeSat-Based 5G Cloud Radio Access Network: A novel paradigm for on-demand anytime-anywhere connectivity
Bassoli, R., Granelli, F., Sacchi, C., Bonafini, S., Fitzek, F.
IEEE Vehicular Technology Magazine, 15 (2), 39-47, 2020

Glue Technologies for Space Systems: An Introduction to a New AESS Technical Panel
Sacchi, C., Schlegel, C., Rossi, T., (...), Granelli F., Murroni, M., Conci, N.
IEEE Aerospace and Electronic Systems Magazine, 35 (1), pp. 46-54, 2020.

CPAC: Energy-efficient algorithm for IoT sensor networks based on enhanced hybrid intelligent swarm Open Access
Wang, Q., Liu, W., Yu, H., (...), Gao, S., Granelli, F.
Computer Modeling in Engineering and Sciences, 121 (1), pp. 83-103, 2019

Smart energy pricing for demand-side management in renewable energy smart grids
Borges, Y.G.F., Schouery, R.C.S., Miyazawa, F.K., Granelli, F., da Fonseca, N.L.S., Melo, L.P.
International Transactions in Operational Research, Nov. 5, 2019.
https://doi.org/10.1111/itor.12747

Cognitive Software-Defined Networking Using Fuzzy Cognitive Maps

Giovanni Baggio, Riccardo Bassoli, Fabrizio Granelli
IEEE Transactions on Cognitive Communications and Networking 5 (3), pp. 517-539, 2019.

Toward 5G cloud radio access network: An energy and latency perspective
Riccardo Bassoli, Fabrizio Granelli, Sisay Arzo, Marco Di Renzo
Transactions on Emerging Telecommunications Technologies, 2019.

Why energy matters? Profiling energy consumption of mobile crowdsensing data collection frameworks
M. Tomasoni, A. Capponi, C. Fiandrino, F. Granelli, P. Bouvry
Pervasive and Mobile Computing, 2018, Volume: 51, pp. 193 – 208.

Autonomic Mobile Virtual Network Operators for Future Generation Networks
Fabrizio Granelli, Riccardo Bassoli
IEEE Network, 2018, Volume: 32, Issue: 5, pp. 76 – 84

Technologies and Solutions for Location-Based Services in Smart Cities: Past, Present, and Future
M Usman, MR Asghar, IS Ansari, F Granelli, K Qaraqe
IEEE Access, 2018, Volume: 6, pp. 22240-22248.

A Device-to-Device Communication based Disaster Response Network
JZ Moghaddam, M Usman, F Granelli
IEEE Transactions on Cognitive Communications and Networking, Vol. 4, Issue: 2, 2018.

SoftPSN: Software-Defined Resource Slicing for Low-Latency Reliable Public Safety Networks
AA Gebremariam, M Usman, R Bassoli, F Granelli
Wireless Communications and Mobile Computing, 2018, Article No. 7253283.

Performance Analysis of a Burst Transmission Mechanism Using Microsleep Operation for Green IEEE 802.11 WLANs
R Palacios-Trujillo, NLS da Fonseca, J Alonso-Zarate, F Granelli
Applied Sciences 7 (7), 744, 2017

Crowdsensim: a simulation platform for mobile crowdsensing in realistic urban environments
C Fiandrino, A Capponi, G Cacciatore, D Kliazovich, U Sorger, P Bouvry, F Granelli
IEEE Access 5, 3490-3503, 2017

End-to-end network slicing for 5g mobile networks
A Nakao, P Du, Y Kiriha, F Granelli, AA Gebremariam, T Taleb, M Bagaa
Journal of Information Processing 25, 153-163, 2017

Optimal received SINR balancing based on cooperative beamforming in cognitive radio networks
J. Moghaddam, F. Granelli, H. Farrokhi
in: International Journal of Communication Systems, Vol. 30, No. 8, 2017.

Identification and Punishment Policies for Spectrum Sensing Data Falsification Attackers Using Delivery-based Assessment
S. Althunibat, B.J. Denise, F. Granelli
in: IEEE Transactions on Vehicular Technology, 2017, DOI: 10.1109/TVT.2015.2497349

A Software-Defined Device-to-Device Communication Architecture for Public Safety Applications in 5G Networks
M. Usman, A.A. Gebremariam, U. Raza, F. Granelli
in: IEEE Access, Vol. 3, pp. 1649-1654, DOI: 10.1109/ACCESS.2015.2479855

Flexible channel selection mechanism for cognitive radio based last mile smart grid communications
S. Althunibat, Qi Wang, F. Granelli

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