

Curriculum Vitae

Dr. Octavian A. Postolache

**Science and Information Technology Department, ISCTE- Instituto Universitario de Lisboa, Portugal,
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Senior Researcher, Instituto de Telecomunicacoes, Instrumentation and Measurement Group, Lisbon, Portugal,

Director of Instituto de Telecomunicacoes, IT-IUL Branch

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<https://www.it.pt/Members/Index/474>

(a) PROFESSIONAL PREPARATION

“Gh. Asachi” Technical University of Iasi, Electrical Engineering, BSc 5 years, 9.82/10, 1992

“Gh. Asachi” Technical University of Iasi, Electrical Engineering- Metrology, PhD, magna cum laude, 1999

IST-University of Lisbon, Distributed Instrumentation for Environment Monitoring pos-doctoral studies, 2000-2004

IST-University of Lisbon, “Unobtrusive Sensing and Pervasive Computing for Healthcare”, Habilitation, 2016

(c) EXPERTISE:

Smart sensors, Wireless Sensor Network and IoT

Optical Fiber Sensors and Application for Port and Transportation

Fiber Bragg Gratings Sensors based on single mode and multimode fibers for temperature, vibration, force

Machine Learning and AI for Smart Systems

Augmented and Virtual Reality for Smart Home and Smart Healthcare

Deep Learning and Big Data Analytics for Healthcare and

h-index =32 (by google scholar)

(b) APPOINTMENTS

03/2019-present: Associate Professor with habilitation, tenure, CTI Department, ISCTE-Instituto Universitario de Lisboa

03/2016-03/2019: Assist. Professor with habilitation, CTI Department, ISCTE-Instituto Universitario de Lisboa

02/2012-03/2016 Assist. Professor, CTI Department, ISCTE-Instituto Universitario de Lisboa 09/93-08/89 Assist.

02/2002-02/2012 Adj. Professor, EST/Instituto Politecnico de Lisboa

02/2004-02/2012 Principal Researcher , Instituto de Telecomunicacoes, Lisbon, Portugal

06/2000-02/2004 Auxiliar Researcher Instituto Superior Tecnico, UL, Portugal

Selected Awards and Fellowship

- IEEE Instrumentation and Measurement, Best Reviewer Gold Medal, 2020.
- IEEE Instrumentation and Measurement, Best Reviewer Award 2011.
- IEEE Transactions on Instrumentation and Measurements, Best Reviewer Award, 2017
- IEEE Sensors Journal, Best Associate Editor, 2013
- IEEE instrumentation and Measurement, Distinguished Lecturer Award, 2014-2017
- IEEE instrumentation and Measurement, Distinguished Lecturer Award, 2017-2020
- IEEE Certificate of Appreciation for organizing “MeMeA 2014”, Lisbon, Portugal
- IEEE Certificate of Appreciation for organizing “ISSI 2018”, Shanghai, China
- IEEE Certificate of Appreciation for organizing, “ISSI 2019”, Lisbon, Portugal.
- Listed as scientist of Stanford University list of world’s top 2% scientists, 2020.
- Scientific Award of ISCTE-Instituto Universitario de Lisboa, 2014.
- Scientific Award of ISCTE-Instituto Universitario de Lisboa, 2015.
- Scientific Award of ISCTE-Instituto Universitario de Lisboa, 2017.
- Scientific Award of ISCTE-Instituto Universitario de Lisboa, 2018
- Scientific Award of ISCTE-Instituto Universitario de Lisboa, 2019

- IEEE I2MTC, Certificate of appreciation for the tutorial presented "Unobtrusive Smart Sensing and Pervasive Computing for Healthcare", Pisa, Italy, May, 2015.
- IEEE I2MTC, Certificate of appreciation for the tutorial presented "Unobtrusive Smart Sensing and Pervasive Computing for Healthcare", Taipei, Taiwan, May, 2016
- Certificate of Appreciation for the activity of chair of organizing committee of the EPE 2014, Oct. 2014.
- Certificate of appreciation for organization of ICST 2015 as Technical Program Co- Chair Auckland, NZ, Dec 2015.
- Tempus PhD EU Fellowship, IST, University of Lisbon, March-June, 1997,
- Erasmus pos-doctoral Fellowship, IST, University of Lisbon, March-September, 1999
- FCT (Portuguese Science Foundation) pos-doctoral Fellowship IST, University of Lisbon, 2000-2002
- FCT (Portuguese Science Foundation) pos-doctoral Fellowship IST, University of Lisbon, 2002-2004
- Certificate of appreciation for the organization of the special session "Ubiquitous Systems for Healthcare, Palmerston North, NZ, Dec 2011.

Selected Grants and International Collaboration

1. **Principal Researcher for FCT project SmartLife - Smart Sensing Systems for Everyday Life – period: July 2020- Oct 2020**
2. **Principal investigator for Lisbon IT-IUL branch in the project WeHope - Wearable e-health optical fiber monitoring system, period March 2017- March 2019.**
3. **Principal Investigator of the project “NANO-IMUNELCHIM-PLAT – Diversifications of R&D Activity by Developing of Nano-Sensors Platforms for Electrochemical Detection and Quantifications of Bio-and Immuno Markers with Medical Safety and Environmental Applications”.**
Project/Competitiveness Operational Programme 2014-2020, under grant P_37_766, cod my 103847, nr. 68/08.09.2016, Romanian National Authority for Scientific Research and Innovation., period September 2016- September 2020.
4. **Principal Investigator of the project “Smart Sensors and Tailored Environments for Physiotherapy - PTDC/DTP-DES/6776/2014”.** Founded by Portuguese Science Foundation (FCT) period: April 2016 – June 2019
5. **Principal Investigator of the project “Electronic Health Record in Physical Therapy - PTDC/DTP-DES/1661/2012”.** Founded by Portuguese Science Foundation (FCT), period: May 2013 – September 2015
6. **Principal Investigator of the project “EHR – Wheel Electronic Health Record for Wheelchair Users – RIPD/APD/109639/2009, ”.** Founded by Portuguese Science Foundation (FCT), period: May 2010 – December 2010
7. **Principal Investigator of the project “Listening Dolphins and Measuring the Water Quality Where They Live - Live Science CV 1572-2006”**, Science Innovation 2005 Operational Program, Measure V.6 - “Scientific and Technological Promotion and Dissemination”, Action 5.6.1 .
8. **Local coordinator of the project MAXBEE FP7 EU Project: Interoperable Monitoring , Diagnosis and Maintenance Strategies for Axle Bearings , Period: Jan 2012 – Jan 2015**
Participation in more than 30 national and international research projects as member of research team, principal researcher or local coordinator.

International Evaluator Activity:

- Member of the project evaluation committee, KU Leuven Research Council, 2020
- Member of the project evaluation committee, KU Leuven Research Council, 2019.
- Member of the project evaluation committee PED2016, Romania, Executive Agency for Higher Education, Research Development and Innovation Founding, online at: www.uefiscdi-direct.ro, 2016.
- Member of the project evaluation committee RUTE 2015, Romania, Executive Agency for Higher Education, Research Development and Innovation Founding, online at: www.uefiscdi-direct.ro, 2015.
- Member of the evaluation committee for projects funded by the Environment and Conservation Fund Environmental Research, Technology Demonstration and Conference Projects Funding Scheme, June 2017.
- Member of the project evaluation committee PED2016, Romania, Executive Agency for Higher Education, Research Development and Innovation Founding, online at: www.uefiscdi-direct.ro, 2016.
- Member of the evaluation committee for individual projects of the QREN-SI&DT Program in June 2009.

- 6.13.6. Member of the evaluation committee for individual projects of the QREN- SI&DT Program - in February 2009.
- Member of the application evaluation committee for Research Foundation Flanders - FWO, online at: www.fwo.be

Selected Books

- O. Postolache, E. Sazonov, S M Mukhopadhyay, **Sensors in the Age of the Internet of Things: Technologies and applications**, IET, London, 2019,
- S M Mukhopadhyay, O. Postolache, K. Jayasundera, **Modern Sensing Technologies**, Springer Berlin Heidelberg, Cham, 2018,
- O. Postolache, S M Mukhopadhyay, K. Jayasundera, A. Swain, **Sensors for Everyday Life: Healthcare settings**, Springer Berlin Heidelberg, Berlin, 2016,
- S M Mukhopadhyay, O. Postolache, K. Jayasundera, A. Swain, **Sensors for Everyday Life: Environmental and Food Engineering**, Springer International Publishing, Berlin, 2016,

Book Chapters with Peer Review

1. G. Postolache, O. Postolache, " Smartphone Sensing Technologies for Tailored Parkinson's Disease Diagnosis and Monitoring", Chapter in *Mobile Solutions and Their Usefulness in Everyday Life*, Sara Paiva Editor, Springer 2019, eBook ISBN 978-3-319-93491-4, Hardcover ISBN 978-3-319-93490-7.
2. D. Izdrui, M. Hagan, O. Geman, O. Postolache, R. Alexandre, Smart sensing systems for in-home health status and emotional well-being monitoring during COVID-19, Chapter in, *Biomedical Engineering Tools for Management for Patients with COVID-19 1st Edition*, Valentina Balas Oana Geman Guojun Wang Muhammad Arif Octavian Postolache, Elsevier Science, New York, 2021
3. O. Postolache, G. Postolache, F.C. Cary, F. Lourenço, RO Oliveira, P.M. Girão, "Serious Game based on Kinect and Leap Motion Controller for Upper Limbs Physical Rehabilitation", Chapter in, *Modern Sensing Technologies*, Subhas Mukhopadhyay, Krishanthi Jayasundera, Octavian Postolache, Springer Berlin Heidelberg, Sydney, 2018.
4. O. Postolache, V.V. Viegas, J. M. Dias Pereira, P.M. Girão, "IEEE1451 Smart Sensors Architectures for Vital Signs and Motor Activity Monitoring", Chapter in, *Advanced Interfacing Techniques for Sensors Measurement Circuits and Systems for Intelligent Sensors*, Boby George · Joyanta Kumar Roy V. Jagadeesh Kumar · Subhas Chandra Mukhopadhyay, Springer International Publishing, Cham, Switzerland, 2017.
5. O. Postolache, G. Postolache, H.C. Carvalho, A.C. Catarino, "Smart Clothes for Rehabilitation Context: Technical and Technological Issues", Chapter in, *Sensors for Everyday Life Healthcare Settings*, Octavian Postolache., Mukhopadhyay, S.C., Jayasundera, K.P., Swain, A.K., Springer Berlin Heidelberg, Berlin, 2016.
6. O. Postolache, J. M. Dias Pereira, M.R Ribeiro, P.M. Girão, "Assistive Smart Sensing Devices for Gait Rehabilitation Monitoring", Chapter in, *ICTs for Improving Patients Rehabilitation Research Techniques*, Springer International Publishing, Berlin Heidelberg, 2015.
7. Postolache, O.; Girão, P.M.; Jose Miguel Dias Pereira "A Novel Smart Sensing Platform for Vital Signs and Motor Activity Monitoring" - Chapter in *REHAB-2014 in Communications in Computer and Information Science (CCIS)*, 2014.
8. M.R Ribeiro; Postolache, O.; Girão, P.M.; "A Novel Smart Sensing Platform for Vital Signs and Motor Activity Monitoring" - Chapter in *Sensing Technology: Current Status and Future Trends I*, Mason, A.; Mukhopadhyay, S.C.; Jayasundera, K.P.; N. Bhattacharyya, Springer, Heidelberg, 2013.

9. Postolache, O.; Dias Pereira, J. M.; Girão, P.M.; "Greenhouse Environment: Air and Water Monitoring" - Chapter in Smart Sensing Technology for Agriculture and Environment Monitoring, Subhas Chandra Mukhopadhyay, Springer, Heidelberg, 2012.
10. Postolache, O.; Girão, P.M.; G. Postolache; "Pervasive Sensing and M-Health: Vital Signs and Daily Activity Monitoring" - Chapter in Pervasive and Mobile Sensing and Computing for Healthcare, Subhas Chandra Mukhopadhyay and Octavian Adrian Postolache, Springer, Heidelberg, 2012.
11. G. Postolache; Girão, P.M.; Postolache, O.; "Requirements and Barriers to Pervasive Health Adoption" - Chapter in Pervasive and Mobile Sensing and Computing for Healthcare - Technological and Social Issues, Subhas Chandra Mukhopadhyay and Octavian Postolache, Springer, Heidelberg, 2012.
12. Postolache, O.; Dias Pereira, J. M.; Girão, P.M. "Water Quality Monitoring and Associated Distributed Measurement Systems: an overview" Chapter in Water Quality/ Book 1, ISBN 979-953-307-638-5, InTech, Editor Kostas Voudouris, 2012.
13. Postolache, O.; Dias Pereira, J. M.; Girão, P.M.; Postolache, G. "Distributed Smart Sensing Systems for Indoor Monitoring of Respiratory Distress Triggering Factors" - Chapter in Chemistry, Emission, Control, Radioactive Pollution and Indoor Air Quality, InTech, Rijeka, 2011.
14. Postolache, O.; Dias Pereira, J. M.; Girão, P.M. "Underwater Acoustic Source Localization and Sounds Classification in Distributed Measurement Networks" - Chapter in Advances in Sound Localization, Pawel Strumillo, InTech, Wien, 2011.
15. Postolache, O.; Girão, P.M.; Dias Pereira, J. M. "Water Quality Assessment through Smart Sensing and Computational Intelligence" - Chapter in New Developments and Applications in Sensing Technology, Subhas C. Mukhopadhyay, Aime Lay-Ekuakille, Anton Fuchs, Springer, Berlin Heidelberg, 2011.
16. Dias Pereira, J. M.; Postolache, O.; Girão, P.M.; "Analog to Digital Conversion Methods for Smart Sensing Systems" - Chapter in Advances in Measurement Systems, Milind Kr Sharma, InTech, Vulovar (country: Croatia), 2010.
17. Postolache, O.; Girão, P.M.; Dias Pereira, J. M.; "Non-volatile Memory Interface Protocols for Smart Sensor Networks and Mobile Devices" - Chapter in Data Storage, Prof Florin Balasa, InTech, Wien, 2010.
18. Postolache, O.; Girão, P.M.; Pinheiro, E.C.; Postolache, G. "Unobtrusive and Non-invasive Sensing Solutions for on-line Physiological Parameters Monitoring" - Chapter in Wearable and Autonomous Biomedical Devices and Systems for Smart Environment, Aimé Lay-Ekuakille, Subhas Chandra Mukhopadhyay, Springer, Berlin, 2010.
19. Pinheiro, E.C.; Postolache, O. "Modelling of Oscillometric Blood Pressure Monitor - from White to Black Box Models" - Chapter in Recent Advances in Biomedical Engineering, Ganesh R Naik, In-Tech, Vienna, 2009.
20. Girão, P.M.; Postolache, O., Dias Pereira, J. M "Data Fusion, Decision-Making, and Risk Analysis: Mathematical Tools and Techniques " - Chapter in Advances in Data Modeling for Measurements in the Metrology and Testing Fields (Modeling and Simulation in Science, Engineering and Technology), Franco Pavese, Alistair B. Forbes, Birkhäuser, Boston, 2008.
21. Postolache, O.; Girão, P.M.; Dias Pereira, J. M. "Virtual Instrumentation" - Chapter in Advances in Data Modeling for Measurements in the Metrology and Testing Fields, Franco Pavese (INRIM), Alistair Forbes (NPL). Series "Modeling and Simulation in Science, Engineering and Technology", Springer, Boston, 2008.
22. Girão, P.M.; Dias Pereira, J. M.; Postolache, O. "Multisensor Data Fusion and Its Application to Decision Making" - Chapter in Advanced Mathematical & Computational Tools in Metrology VII, P Ciarlini et al, World Scientific Publishing, New Jersey, 2006.

Selected Publications (Scientific Journals and Conference Proceedings with Peer Review – selected papers, 64 from 101, please see <https://www.it.pt/Members/Index/474>)

Google h-index 32, Jan 2021

1. M. Chao, Y. Huang, C. Hu, Z. Zhang, O. Postolache, Vision-Based Measurement: Actualities and Developing Trends in Automated Container Terminals, *IEEE Instrumentation and Measurement Magazine*, Vol. 24, No. 4, pp. 65 - 76, June, 2021,
2. V.R Roza, O. Postolache, β -Band Analysis from Simulated Flight Experiments, *Aerospace*, Vol. 8, No. 5, pp. 120 - 120, April, 2021,
3. V. Viegas, J. M. Dias Pereira, P.M. Girão, O. Postolache, Study of latencies in ThingSpeak, *Advances in Science, Technology and Engineering Systems (discontinued)*, Vol. 6, No. 1, pp. 342 - 348, January, 2021,
4. B. Xu, X. Liu, Y. Yang, J. Li, O. Postolache, Optimization for a Multi-Constraint Truck Appointment System Considering Morning and Evening Peak Congestion, *Sustainability*, Vol. 13, No. 3, pp. 1181 - 1181, January, 2021,
5. O. Postolache, R. Alexandre, O. Geman, J. H. HEMANTH, D. G. Gupta, A. Khanna, Remote Monitoring of Physical Rehabilitation of Stroke Patients using IoT and Virtual Reality, *IEEE Journal on Selected Areas in Communications*, Vol. 1, No. 1, pp. 1 - 12, October, 2020,
6. G. Miele, O. Postolache, Special Section on the 2019 IEEE Measurement and Networking Symposium, Catania, Italy, July 8–10, 2019, *IEEE Transactions on Instrumentation and Measurement*, Vol. 69, No. 10, pp. 7979 - 7981, October, 2020,
7. A. Martines, F. Ferrero, J. Villar, O. Postolache, High-Performance Analog Front-End (AFE) for EOG Systems, *Electronics (Switzerland)*, Vol. 9, No. 6, pp. 970 - 970, June, 2020,
8. M.J. Rodrigues, O. Postolache, Cercas, F. Cercas, Physiological and Behavior Monitoring Systems for Smart Healthcare Environments: A Review, *Sensors*, Vol. 20, No. 8, pp. 2186 - 2186, April, 2020
9. A. Martines, F. Ferrero, J. Villar, O. Postolache, High-Performance Analog Front-End (AFE) for EOG Systems, *Electronics (Switzerland)*, Vol. 9, No. 6, pp. 970 - 970, June, 2020
10. Xiuwen Fu ; Yongsheng Yang ; Octavian Postolache, Sustainable Multipath Routing Protocol for Multi-Sink Wireless Sensor Networks in Harsh Environments, *IEEE Transactions on Sustainable Computing (Early Access)* February, 2020.
11. M. Zhong, Y. Yang, H. Yao, X. Fu, O. Dobre, O. Postolache, 5G and IoT: Towards a New Era of Communications and Measurements, *IEEE Instrumentation and Measurement Magazine*, Vol. 22, No. 6, pp. 18 - 26, December, 2019.
12. O. Postolache, V.R Roza, Multimodal Approach for Emotion Recognition Based on Simulated Flight Experiments, *Sensors Journal - MDPI*, Vol. 19, No. 24, pp. 5516 - 5516, December, 2019
13. O. Postolache, J. Cordeiro, J. Ferreira, Child's Target Height Prediction Evolution, *Applied Sciences (Switzerland)*, Vol. 9, No. 24, pp. 5447 - 5447, December, 2019.
14. V. Viegas, O. Postolache, J. M. Dias Pereira, Transducer Electronic Data Sheets: Anywhere, Anytime, Anyway, *Electronics (Switzerland)*, Vol. 8, No. 11, pp. 1345 - 1345, November, 2019,
15. M. Zhong, Y. Yang, O. Postolache, Adaptive Autotuning Mathematical Approaches for Integrated Optimization of Automated Container Terminal, *Mathematical Problems in Engineering*, Vol. 2019, No. 1, pp. 1 - 14, November, 2019
16. E.R. Reis, P.A. Arriaga, L. L. Lima, L. Teixeira, O. Postolache, G. Postolache, Tailoring virtual environments of an exergame for physiotherapy: the role of positive distractions and sensation-seeking, *Psychology*, Vol. 1, No. 1, pp. 1 - 16, September, 2019
17. A. Lopez, F. Ferrero, O. Postolache, An Affordable Method for Evaluation of Ataxic Disorders Based on Electrooculography, *Sensors*, Vol. 19, No. 17, pp. 1 - 16, August, 2019,
18. Lay-Ekuakille, I Durickovic, Lanzolla, RM Morelo, CC De Capua, P.M. Girão, O. Postolache, A. Massaro, L. V. B. Biesen, Effluents, surface and subterranean waters monitoring: Review and advances, *Measurement: Journal of the International Measurement Confederation*, Vol. 137, No. 1, pp. 566 - 579, April, 2019,
19. O. Geman, O. Postolache, I. CHIUCHISAN, M. PRELIPCEANU, J. H. HEMANTH, An Intelligent Assistive Tool Using Exergaming and Response Surface Methodology for Patients With Brain Disorders, *IEEE Access*, Vol. 7, No. 1, pp. 21502 - 21513, February, 2019,

20. X. Fu, Y. Yang, O. Postolache, "Invulnerability of Clustering Wireless Sensor Networks Against Cascading Failures", *IEEE Systems*, Vol. 1, No. 1, pp. 1 - 12, July, 2018, Q1- Scimago 0 – citações Google Schola
21. Lopes, M Fernández, H. Rodríguez, F. Ferrero, O. Postolache, "Development of an EOG-based system to control a serious game", *Measurement Journal*, Vol. 127, No. 2018, pp. 481 - 488, June, 2018,
22. B. Xu, J. Li, Y. Yang, O. Postolache, H. Wu, "Robust modeling and planning of radio-frequency identification network in logistics under uncertainties", *Intrnl. Journal of Distributed Sensor Networks*, Vol. 14, No. 4, pp. 155014771876978 - 155014771876978, April, 2018,
23. J. Li, B. Xu, O. Postolache, Y. Yang, H. Wu, "Impact Analysis of Travel Time Uncertainty on AGV Catch-Up Conflict and the Associated Dynamic Adjustment", *Mathematical Problems in Engineering*, Vol. 2018, No. 4037695, pp. 1 - 11, April, 2018,
24. Y. Yang, M. Zhong, H. Yao, F. Yu, X. Fu, O. Postolache, "Internet of things for smart ports: Technologies and challenges", *IEEE Instrumentation and Measurement Magazine*, Vol. 21, No. 1, pp. 34 - 43, February, 2018, Q2- Scimago 1 – citações IEEE
25. V.V. Viegas, J. M. Dias Pereira, O. Postolache, P.M. Girão, "Monitoring Walker Assistive Devices: A Novel Approach Based on Load Cells and Optical Distance Measurements", *MDPI Sensors*, Vol. 18, No. 2, pp. 540 - 540, February, 2018, Q1- Scimago 1 – citações Google Scholar
26. Lopez A. , F. Ferrero, D. Yanguela, C. Alvarez, O. Postolache, "Development of a Computer Writing System Based on EOG", *Sensors*, Vol. 17, No. 7, pp. 1 - 22, June, 2017, Q1- Scimago 4 – citações Web of Science e Scopus
27. M. F. Domingues, C. Tavares, C. Leitão Leitão, A. Frizera-Neto Frizera-Neto, N. Alberto, C. Marques, A. Radwan, J. Rodriguez, O. Postolache, E. Rocon de Lima, P.S André, P. Antunes, "Insole optical fiber Bragg grating sensors network for dynamic vertical force monitoring", *Journal of Biomedical Optics*, Vol. 22, No. 9, pp. 091507 - 091507-8, February, 2017, Q1- Scimago 26 – citações Web of Science e Scopus
28. O. Postolache, G. Postolache, "Development and Selection of Balance Sensing Devices", *IEEE Instrumentation and Measurement Magazine*, Vol. 20, No. 1, pp. 38 - 48, February, 2017, Q2- Scimago 8 – citações Web of Science e Scopus
29. V.V. Viegas, O. Postolache, P.M. Girão, J. M. Dias Pereira, "Quimera: The easy way to simulate Foundation Fieldbus applications", *Computer Applications in Engineering Education*, Vol. 24, No. 5, pp. 1 - 12, August, 2016, Q1- Scimago 0 – citações Web of Science e Scopus
30. P.M. Girão, O. Postolache, G. Postolache, J. M. Dias Pereira, "Unobtrusive Solutions for Health Monitoring and Physiotherapy", *Medições e Ensaios*, Vol. 1, No. 12, pp. 4 - 14, January, 2016, Qx- Scimago 0 – citações Web of Science e Scopus
31. O. Postolache, J. M. Dias Pereira, V.V. Viegas, LP Pedro, P.M. Girão, RO Oliveira, G. Postolache, "Smart Walker Solutions for Physical Rehabilitation", *IEEE Instrumentation and Measurement Magazine*, Vol. 18, No. 5, pp. 21 - 30, October, 2015, Q2- Scimago 9 – citações Semantic scholar
32. RM Morelo, CC De Capua, AE Ekuakille, KL Lee, O. Postolache, W.J.M. J. Miller, S,U Urooj, J.W. Wu, Guest Editorial Special Issue on "Advancing Standards for Smart Transducer Interfaces", *Journal of Constructional Steel Research*, Vol. 15, No. 5, pp. 2449 - 2450, May, 2015, Q1- Scimago 8 – citações Web of Science e Scopus
33. J. M. Dias Pereira, O. Postolache, P. M. Girão, "Using neural Network techniques in Environmental Sensing and Measurement Systems to Compensate for the Effects of Influence Quantities", *IEEE Instrumentation and Measurement Magazine*, Vol. 17, No. 6, pp. 26 - 33, December, 2014 – Q2 – 1 citação IEEE
34. AS Solanas; CP Patsakis; MC Conti; IV Viachos; VR Ramos; FF Falcone; Postolache, O.; P A Perez Martinez; RP Di Pietro; AM Martinez Balleste; "Smart Health: A Context-Aware Health Paradigm within Smart Cities", *IEEE Communications Magazine*, Vol. 1, No. 8, pp. 74 - 81, August, 2014 – Q1 Scimago – 267 citações – Google Academico.
35. L. de Vito; Postolache, O.; S. Rapuano; "Measurements and Sensors for Motion Tracking in Motor Rehabilitation", *IEEE Instrumentation and Measurement Magazine*, Vol. 1, No. 6, pp. 30 - 38, June, 2014. Q2 Scimago -21 citações – Google Academico.

36. Postolache, O.; Dias Pereira, J. M.; Girão, P.M.; "Wireless sensor network-based solution for environmental monitoring: water quality assessment case study", IET Science, Measurement and Technology, Vol. 1, No. 1, pp. 1 - 7, June, 2014, . Q2 Scimago -17 citações – Google Academico.
37. Postolache, O.; Ribeiro, A. L.; Ramos, H. G.; "GMR array uniform eddy current probe for defect detection", Measurement, Vol. 46, No. 1, pp. 4369 - 4378, December, 2013. Q2 Scimago -30 citações – Google Academico
38. Dias Pereira, J. M.; Viegas, V.V.; Postolache, O.; Girão, P.M.; "A Smart and Distributed Measurements System to Acquire and Analyze Mechanical Motion Parameters", Metrology and Measurement Systems, Vol. XX, No. 3, pp. 461 - 474, September, 2013. . Q2 Scimago -6 citações – Google Academico
39. Pinheiro, E.C.; Postolache, O.; Girão, P.M.; "Contactless Impedance Cardiography Using Embedded Sensors", Measurement Science Review, Vol. 9, No. 3, pp. 157 - 164, June, 2013. Q2 Scimago -8 citações – Google Scholar
40. Postolache, O.; Girão, P.M.; G. Postolache; " Method for Unobtrusive Measurement of Indoor Air Quality Effects on the Cardiorespiratory Functions", Environmental Engineering and Management Journal, Vol. 12, No. 6, pp. 1239 - 1254, June, 2013. Q3 Scimago -2 citações – Google Scholar
41. Girão, P.M.; Ramos, P.M.; Postolache, O.; Dias Pereira, J. M.; "Tactile Sensors for Robotic Applications", Measurement, Vol. 46, No. 3, pp. 1257 - 1271, April, 2013. Q2 Scimago -99 citações – Google Scholar
42. Pinheiro, E.C.; Postolache, O.; Girão, P.M.; "Study on ballistocardiogram acquisition in a moving wheelchair with embedded sensors", Metrology and Measurement Systems, Vol. XIX, No. 4, pp. 739 - 750, December, 2012. Q2 Scimago -7 citações – According Semantic Scholar
43. Dias Pereira, J. M.; Postolache, O.; Girão, P.M.; "Heavy Metals Measurement: A Suitable Solution to Improve Online Measurement Celerity", Instrumentation Science and Technology, Vol. 40, No. 4, pp. 355 - 371, June, 2012. Q3 Scimago -3 citações – Taylor & Francis
44. Dias Pereira, J. M.; Postolache, O.; Girão, P.M.; "Using a Segmented Voltage Sweep Mode and a Gaussian Curve Fitting Method to Improve Heavy Metal Measurement System Performance", Metrology and Measurement Systems, Vol. 19, No. 2, pp. 381 - 394, April, 2012. Q2 Scimago -4 citações –Research gate
45. Pinheiro, E.C.; Postolache, O.; Girão, P.M.; "Empirical Mode Decomposition and Principal Component Analysis implementation in processing non-invasive cardiovascular signals", Measurement, Vol. 45, No. 2, pp. 175 - 181, February, 2012. . Q2 Scimago -35 citações –Google Scolar
46. Ribeiro, A. L.; Ramos, H. G.; Postolache, O.; "A simple forward direct problem solver for eddy current non-destructive inspection of aluminum plates using uniform field probes", Measurement, Vol. 2012, No. 45, pp. 213 - 217, January, 2012. Q2 Scimago -19 citações –Google Scolar
47. Dias Pereira, J. M.; Postolache, O.; Girão, P.M.; "A Smart Measurement and Stimulation System to Analyze and Promote Non-Nutritive Sucking of Premature Babies", Measurement Science Review, Vol. 11, No. 6, pp. 173 - 180, December, 2011. Q2 Scimago -19 citações –Google Scolar
48. Postolache, O.; Girão, P.M.; G. Postolache; "Seismocardiogram and Ballistocardiogram Sensing", Intrnl. Journal of Measurement Technologies and Instrumentation Engineering (IJMTIE), Vol. 1, No. 3, pp. 67 - 88, December, 2011. Q2 Scimago -8 citações –Google Scolar
49. Postolache, O.; Girão, P.M.; Dias Pereira, J. M.; G. Postolache; "FM-CW radar sensors for vital signs and motor activity monitoring", ICST Transactions on Ambient Systems, Vol. 11, No. 10-12, pp. 1 - 10, October, 2011, Q4 Scimago – 3 citações Research Gate

50. Postolache, O.; Dias Pereira, J. M.; Girão, P.M. "Multi-sensing Node Architecture for Water Quality Monitoring", *Instrumentation Viewpoint*, vol. 1, No. 11, pp. 66 - 67, September, 2011.
51. Ribeiro, A. L.; Ramos, H. G.; Postolache, O. "A Simple Forward Direct Problem Solver for Eddy Current Non-Destructive Inspection of Aluminum Plates Using Uniform Field Probes", *Measurement*, aceite para publicação em abril 2011. Q2 Scimago -19 citações –Google Scholar
52. Pinheiro, E.C.; Postolache, O.; Girão, P.M.; "A Survey on Unobtrusive Measurements of the Cardiovascular Function and their Práctical Implementation in Wheelchairs", *Sensors & Transducers Magazine*, Vol. 9, No. 12, pp. 182 - 199, December, 2010. Q4 Scimago -x citações –Google Scholar
53. Pinheiro, E.C.; Postolache, O.; Girão, P.M.; "Non-Intrusive Device for Real-Time Circulatory System Assessment with Advanced Signal Processing Capabilities", *Measurement Science Review*, Vol. 10, No. 5, pp. 166 - 175, October, 2010. . Q2 Scimago -28 citações –Google Scholar
54. Postolache, O.; Girão, P.M.; J M Joaquim; Pinheiro, E.C.; G. Postolache; "Physiological Parameters Measurement Based on Wheelchair Embedded Sensors and Advanced Signal Processing", *IEEE Trans. on Instrumentation and Measurement*, Vol. 59, No. 10, pp. 2564 - 2574, October, 2010. Q1 Scimago -72 citações –Google Scholar
55. Pinheiro, E.C.; Postolache, O.; Girão, P.M.; "Theory and Developments in an Unobtrusive Cardiovascular System Representation: Ballistocardiography", *The Open Biomedical Engineering Journal*, Vol. 4, No. 1, pp. 201 - 216, October, 2010. Q3 Scimago -87 citações –Google Scholar
56. Pinheiro, E.C.; Postolache, O.; Girão, P.M.; "Implementation of Compressed Sensing in Telecardiology Sensor Networks", *Intrnl. Journal of Telemedicine and Applications*, Vol. 2010, No. 1, pp. 1 - 12, September, 2010. Q2 Scimago -33 citações –Google Scholar
57. Postolache, O.; Ramos, H. G.; Ribeiro, A. L.; "Detection and characterization of defects using GMR probes and artificial neural networks", *Computer Standards and Interfaces*, Vol. 33, No. 2011, pp. 191 - 200, June, 2010. Q2 Scimago -36 citações –Google Scholar
58. Pinheiro, E.C.; Postolache, O.; Girão, P.M.; "Fixed-point implementation of infinite impulse response notch filters", *Metrology and Measurement Systems*, Vol. XVII, No. 2, pp. 217 - 232, June, 2010.
59. Q2 Scimago -1 citação – Google Scholar
60. Ribeiro, A. L.; Alegria, F.; Postolache, O.; Ramos, H. G.; "Liftoff Correction Based on the Spatial Spectral Behavior of Eddy-Current Images", *IEEE Trans. on Instrumentation and Measurement*, Vol. 59, No. 5, pp. 1362 - 1367, May, 2010. Q1 Scimago -31 citações – Google Scholar
61. Dias Pereira, J. M.; Postolache, O.; Girão, P.M.; "Spread Spectrum Techniques in Wireless Communication", *IEEE Instrumentation and Measurement Magazine*, Vol. 12, No. 6, pp. 21 - 24, December, 2009. Q2 Scimago -8 citações – Research Gate
62. Dias Pereira, J. M.; Postolache, O.; Girão, P.M.; "PDF-based Progressive Polynomial Calibration Method for Smart Sensors Linearization", *IEEE Trans. on Instrumentation and Measurement*, Vol. 58, No. 9, pp. 3245 - 3252, September, 2009. Q1 Scimago -6 citações –IEEE
63. Postolache, O.; Dias Pereira, J. M.; Girão, P.M.; "Smart Sensors Network for Air Quality Monitoring Applications", *IEEE Trans. on Instrumentation and Measurement*, Vol. 58, No. 9, pp. 3253 - 3261, September, 2009. Q1 Scimago -125 citações – Google Scholar
64. Postolache, G.; Postolache, O.; Girão, P.M., Silva Carvalho, L., Rocha I. "HRV and BPV Neural Network Model with Wavelet Based Algorithm Calibration", *Measurement*, Vol. 42, No. 6, pp. 805 - 814, July, 2009. Q2 Scimago -8 citações – Research Gate

65. Postolache, O.; Girão, P.M.; Anand, A.A.; Sinha, P.S.; Postolache, G. "Health Status and Air Quality Parameters Monitoring Based on Mobile Technology and WPAN ", *International Journal Advanced Media and Communication*, Vol. 3, No. 1/2, pp. 139 - 153, April, 2009. Q2 Scimago -0 citações – Research Gate
66. Ramos, H. G.; Gurrana, L.M.; Postolache, O.; Dias Pereira, J. M.; Girão, P.M.; "Development and Characterization of a Conductivity Cell for Water Quality Monitoring", *Transaction on Systems, Signals and Devices*, Vol. 3, No. 4, pp. 483 - 498, April, 2008.
67. Postolache, O.; Girão, P.M.; Dias Pereira, J. M.; Ramos, H. G.; "Intelligent Processing of the Dynamic Response of Sensors for Water Quality Monitoring", *Transaction on Systems, Signals and Devices*, Vol. 3, No. 4, pp. 539 - 550, April, 2008.
68. Postolache, O.; Girão, P.M.; Dias Pereira, J. M.; Ramos, H. G.; "Multibeam Optical System and Neural Processing for Turbidity Measurement", *IEEE Sensors Journal*, Vol. 7, No. 5, pp. 677 - 684, May, 2007. Q1 Scimago -37 citações Google Scholar

Selected Full Papers in Conference Proceedings (Published in Indexed Proceedings with peer review 76 from 295 please see <https://www.it.pt/Members/Index/474>):

1. J. Arraujo, M. Rodrigues, O. Postolache, Cercas, F. Ferrero, A. Martines, Heart Rate Variability Analysis in Healthy Subjects Under Different Colored Lighting Conditions, *IEEE International Instrumentation and Measurement Technology Conference I2MTC*, Dubrovnik, Croatia, Vol. 1, pp. 1 - 6, May, 2020.
2. O. Postolache, J. Monge, M. F. Domingues, P. Antunes, V. Viegas, Fiber Bragg Gratings Solution for Gait Assessment, *IEEE International Instrumentation and Measurement Technology Conference I2MTC*, Dubrovnik, Croatia, Vol. 1, pp. 1 - 6,
3. O. Postolache, L. Teixeira, J. Cordeiro, M. Rodrigues Rodrigues, L. L. Lima, P.A. Arriaga, P.M. Girão, G. Postolache, Tailored Virtual Reality for Smart Physiotherapy, *IEEE Advanced Topics in Electrical Engineering - ATEE*, Bucharest, Romania, Vol. 1, pp. 1 - 6, March, 2019,
4. R. Alexandre, O. Postolache, P.M. Girão, Physical Rehabilitation based on Smart Wearable and Virtual Reality Serious Game, *IEEE International Instrumentation and Measurement Technology Conference I2MTC*, Auckland, New Zealand, Vol. 1, pp. 1 - 6, May, 2019,
5. D. Ni, O. Postolache, M. Chao, UWB Indoor Positioning Application Based on Kalman Filter and 3-D TOA Localization Algorithm, *IEEE Advanced Topics in Electrical Engineering - ATEE*, Bucharest, Romania, Vol. 1, pp. 1 - 6, March, 2019 |
6. Nave, Y. Yang, O. Postolache, "Physical Rehabilitation based on Smart Walker", *International Conf. on Sensing Technology - ICST*, Limerick, Ireland, Vol. 1, pp. 1 - 6, December, 2018,
7. M. Frango., O. Postolache, Y. Yang "Smart Object for Physical Rehabilitation Assessment", *Actas da Conf. International EPE 2018*, Iasi, Romania, Vol.1, pp.1-6, Outubro 18-19, 2018,
8. O. Postolache, S. Macovei, A.F. Trandabat, I. Hogas, "Electrospinning Application on Fabrication of PMMA Nanofibers Membranes for Electrochemical Sensors", *Actas da Conf. International EPE 2018*, Iasi, Romania, Vol.1, pp.1-6, Outubro 18-19, 2018,
9. J. Monge, O. Postolache, "Augmented Reality and Smart Sensors for Physical Rehabilitation", *Actas da Conf. International EPE 2018*, Iasi, Romania, Vol.1, pp.1-6, Outubro 18-19, 2018,
10. V. C.C. Roza, O. Postolache, "Emotion Analysis Architecture Based on Face and Physiological Sensing Applied with Flight Simulator", *Actas da Conf. International EPE 2018*, Iasi, Romania, Vol.1, pp.1-6, Outubro 18-19, 2018,

11. Ana.C. Dias, O. Postolache, "Cyclist Performance Assessment based on WSN and Cloud technologies", Actas da Conf. International EPE 2018, Iasi, Romania, Vol.1, pp.1-6, Outubro 18-19, 2018,
12. V.R Roza, A. Almeida, P.M. Girão, O. Postolache, "Performance Analysis of ANN and SVM in ECG Based Arrhythmia Identification", IMEKO World Congress, Belfast, Ireland, Vol., pp. -, September, 2018,
13. V.V. Viegas, J. M. Dias Pereira, P.M. Girão, O. Postolache, R. S. Salgado, "IoT applied to environmental monitoring in oysters' farms", IEEE International Symposium on Sensing and Instrumentation in IoT Era ISSI, Shanghai, China, Vol., pp. 1-6, September, 2018,
14. J R Cordeiro, O. Postolache , "Big Data Storage for a Health Predictive System" , IEEE International Symposium on Sensing and Instrumentation in IoT Era ISSI, Shanghai, China, Vol., pp. 1-6, September, 2018
15. F. Casino, C. Patsakis, E. Batista, O. Postolache, A. Martínez-Ballesté, A. Solanas, "Smart Healthcare in the IoT Era: A Context-Aware Recommendation Example", IEEE International Symposium on Sensing and Instrumentation in IoT Era ISSI, Shanghai, China, Vol., pp. 1-4, September, 2018
16. Raimundo, D. Fernandes, D. Gomes, O. Postolache, P. Sebastião, F. Cercas, "UAV GNSS Position Corrections based on IoT™ Communication Protocol", IEEE International Symposium on Sensing and Instrumentation in IoT Era ISSI, Shanghai, China, Vol., pp. 1-5, September, 2018
17. J. K. Roy, T. S. Roy, N. Mandal, O. Postolache, "A Simple technique for heart sound detection and identification using kalman filter in real time analysis", IEEE International Symposium on Sensing and Instrumentation in IoT Era ISSI, Shanghai, China, Vol., pp. 1-8, September, 2018,
18. C. Nave, O. Postolache, "Smart Walker based IoT Physical Rehabilitation System", IEEE International Symposium on Sensing and Instrumentation in IoT Era ISSI, Shanghai, China, Vol., pp. 1-6, September, 2018,
19. R. Alexandre, O. Postolache, "Wearable and IoT Technologies Application for Physical Rehabilitation", IEEE International Symposium on Sensing and Instrumentation in IoT Era ISSI, Shanghai, China, Vol., pp. 1-6, September, 2018,
20. Pedro M. Frango, O. Postolache, " Mobile Application based on Wireless Sensor Network for Physical Rehabilitation", IEEE International Symposium on Sensing and Instrumentation in IoT Era ISSI, Shanghai, China, Vol., pp. 1-6, September, 2018,
21. Alberto Lopez, D. Perez, F. J. Ferrero, O. Postolache, "A Real-Time Algorithm to Detect Falls in the Elderly", Proceedings of, 2018 IEEE International Symposium on Medical Measurements and Applications, MeMeA 2018, Rome, Italy, June 11-13, 2018. IEEE 2018, pp. 1-5, ISBN 978-1-5386-3392-2
22. Gabriela Postolache, O. Postolache, F. Ferrero Martim, R. Vardasca, J. Mendes, "Feasibility of Infrared Thermography Use for Neuromusculoskeletal Rehabilitation". Proceedings of, 2018 IEEE International Symposium on Medical Measurements and Applications, MeMeA 2018, Rome, Italy, June 11-13, 2018. IEEE 2018, pp. 1-6, ISBN 978-1-5386-3392-2
23. F. Lourenço, O. Postolache, G. Postolache "Tailored virtual reality and mobile application for motor rehabilitation", IEEE International Instrumentation and Technology Conf. - I2MTC, Houston, United States, Vol., pp. 1-6, May, 2018,
24. V.V. Viegas, J. M. Dias Pereira, O. Postolache, P.M. Girão, "Spy Walker -A Convenient Way to Assess Gait in Walker Assistive Devices", IEEE International Instrumentation and Technology Conf. - I2MTC, Houston, United States, Vol., pp. 1.6, May, 2018,
25. D F Ferreira, RO Oliveira, O. Postolache, "Physical Rehabilitation based on Kinect Serious Games", International Conf. on Sensing Technology - ICST, Sydney, Australia, Vol. 1, pp. 1 - 6, December, 2017,

26. R. Souza, V.R Roza, O. Postolache, "A Multi-sensing Physical Therapy Assessment for Children with Cerebral Palsy", International Conf. on Sensing Technology - ICST, Sydney, Australia, Vol. 1, pp. 1 - 6, December, 2017,
27. G. Postolache, RO Oliveira, R. Codovil, O. Postolache, "Competências Digitais E Literacia Em Saúde Para Personalização Do Processo De Fisioterapia", Congresso Nacional de Fisioterapeutas CNFt, Lisboa, Portugal, Vol. 1, pp. 1 - 1, November, 2017,
28. G. Postolache, F. F. Lourenço, A.A. Antunes, O. Postolache, "Wrist and Hand Rehabilitation Software Platform Based on Leap Motion Controller", IFSA International Conference on Sensors and Electronic Instrumentation Advances SEIA, Moscow, Russia, Vol. 1, pp. 1 - 4, September, 2017,
29. O. Postolache, V.V. Viegas, J. M. Dias Pereira, P.M. Girão, "Application of Force and Inertial Sensors to Monitor the Usage of Walker Assistive Devices", IMEKO TC4 Symp., Iasi, Romania, Vol. 1, pp. 1 - 6, September, 2017,
30. V.R Roza, O. Postolache, "Design of a Multimodal Interface based on Psychophysiological Sensing to Identify Emotions", IMEKO TC4 Symp., Iasi, Romania, Vol. 1, pp. 1 - 6, September, 2017,
31. O. Postolache, G. Postolache, RO Oliveira, P.M. Girão, J. M. Dias Pereira, "Tailoring Information and Communication Technologies to Support Physiotherapy for Rural Elderly", IEEE Conf. on e-Health and Bioengineering - EHB, Sinaia, Romania, Vol. 1, pp. 1 - 4, June, 2017,
32. Paulo Leite, O. Postolache, "Gait Rehabilitation Monitor", IEEE Conf. on e-Health and Bioengineering - EHB, Sinaia, Romania, Vol. 1, pp. 1 - 4, June, 2017,
33. O. Postolache, F. L. Lourenço, J. M. Dias Pereira, P.M. Girão, "Serious Game for Physical Rehabilitation: Measuring the Effectiveness of Virtual and Real Training Environments", IEEE International Instrumentation and Measurement Technology Conference I2MTC, Torino, Italy, Vol. 1, pp. 1 - 6, May, 2017,
34. V.R Roza, O. Postolache, "Design of an Artificial Neural Network and Feature Extraction to Identify Atrial Fibrillations from ECG", IEEE International Symp. on Medical Measurements and Applications - MeMeA, Rochester, United States, Vol. 1, pp. 1 - 6, May, 2017,
35. J. M. Dias Pereira, V.Viegas Viegas, O. Postolache, P.M. Girão, "Combining Distance and Force Measurements to Monitor the Usage of Walker Assistive Devices", IEEE International Instrumentation and Technology Conf. - I2MTC, Torino, Italy, Vol. 1, pp. 11 - 16, May, 2017,
36. O. Postolache, Remote Sensing Technologies for Physiotherapy Assessment, PUBU Bucharest; IEEE The 9th International Symposium on Advanced Topics in Electrical Engineering ATEE, Bucharest, Romania, Vol. 1, pp. 1 - 6, March, 2017,
37. E.C. Pinheiro, O. Postolache, P.M. Girão, Ballistocardiogram: Model and Sensing Systems, International Conf. on Sensing Technology - ICST, Nanjing, China, Vol. 1, pp. 1 - 5, November, 2016,
38. R. Madeira, O. Postolache, "just Physio kidding - NUI and Gamification based Therapeutic Intervention for Children with Special Needs", International Symposium on Pervasive Computing Paradigms for Mental Health MINDCARE, Barcelona, Spain, Vol. 1, pp. 1 - 5, November, 2016,
39. J. Matos, O. Postolache, "IoT Enabled Aquatic Drone for Environmental Monitoring", International Conference and Exposition on Electrical and Power Engineering EPE, Iasi, Romania, Vol. 1, pp. 1 - 5, October, 2016,

40. T. Ribeiro, O. Postolache, P.P. Passos, "Performance Assessment for Mountain bike based on WSN and Cloud Technologies", International Conf. and Exposition on Electrical and Power Engineering - EPE, Iasi, Romania, Vol. 1, pp. 1 - 6, October, 2016,
41. J. M. Dias Pereira, M. Alves Alves, V.V. Viegas, O. Postolache, P.M. Girão, "An Automated Test and Measurement System for Calibration of Industrial Flowmeters", IMEKO, Budapest, Hungary, Vol. 1, pp. 89 - 92, September, 2016,
42. O. Postolache, P.M. Girão, "Connected Devices in Physiotherapy
43. for Smart-Health", International Conf. on Information, Intelligence Systems and Applications - IISA, Porto Carras, Greece, Vol. 1, pp. 1 - 6, July, 2016,
44. V. Roza, O. Postolache, "Citizen Emotion Analysis in Smart City, International Conf. on Information, Intelligence Systems and Applications" - IISA, Porto Carras, Greece, Vol. 1, pp. 1 - 6, July, 2016,
45. O. Postolache, V.V. Viegas, J. M. Dias Pereira, P.M. Girão, "NUI Therapeutic Serious Games with Metric Validation based on Wearable Devices", IEEE International Instrumentation and Measurement Technology Conference I2MTC, Taipei, Taiwan, Vol. 1, pp. 1 - 6, May, 2016,
46. G. Postolache, RO Oliveira, I.M. Morreira, LP Pedro, S.B. Barcia, S.D. Domingos, O. Postolache, "Physiotherapists' Perceived Knowledge on Technologies for Electronic Health Records for Physiotherapy", IP Leiria IPLeia International Health Congress IPL Health Cong, Leiria, Portugal, Vol. 1, pp. 1 - 1, May, 2016,
47. G. Postolache, RO Oliveira, O. Postolache, "Designing Digital Tools for Physiotherapy", EAI International Conference on Design, Learning & Innovation DLI 2016, ESBJERG., Denmark, Vol. 1, pp. 1 - 14, May, 2016,
48. O. Postolache, P.M. Girão, J. M. Dias Pereira, G. Postolache, "Postural Balance Analysis using Force Platform for K-Theragame users", IEEE International Symp. on Medical Measurements and Applications - MeMeA, Benevento, Italy, Vol. 1, pp. 1 - 6, May, 2016
49. RO Oliveira, G. Postolache, O. Postolache, I.M. Morreira, S.D. Domingos, S.B. Barcia, LP Pedro, "Technology use and Preference Among Physiotherapy", ESPRM European Congress of Physical and Rehabilitation Medicine ESPRM, Estoril, Portugal, Vol. 1, pp. 1 - 2, April, 2016,
50. A.P. Paiva, H.C. Carvalho, A.C. Catarino, O. Postolache, G. Postolache, "Development of Dry Textile Electrodes for Electromyography", International Conf. on Sensing Technology - ICST, Auckland, New Zealand, Vol. 1, pp. 1 - 6, December, 2015,
51. O. Postolache, "Physical Rehabilitation Assessment based on Smart Training Equipment and Mobile APPs", IEEE EMBS Romanian Chapter E-Health and Bioengineering Conference EHB, Iasi, Romania, Vol. 1, pp. 1 - 6, November, 2015,
52. E.R. Reis, P.A. Arriaga, O. Postolache, "Emotional Flow Monitoring for Health using FLOWSENSE", IEEE EMBS Romanian Chapter E-Health and Bioengineering Conference EHB, Iasi, Romania, Vol. 1, pp. 1 - 6, November, 2015,
53. O. Postolache, G. Postolache, LP Pedro, RO Oliveira, "Older adults: are they ready to adopt ICT for physical therapy?", People Inc Asia -Oceania Congress For Neurorehanilitation AOCNR, Seul, Korea, South, Vol. 1, pp. 1 - 1, September, 2015,
54. O. Postolache, G. Postolache, RO Oliveira, LP Pedro, "Implementation of Electronic Health Record Systems in PhysicalTherapy, People Inc Asia -Oceania Congress For Neurorehanilitation" AOCNR, Seul, Korea, South, Vol. 1, pp. 1 - 1, September, 2015,

55. O. Postolache, G. Postolache, LP Pedro, RO Oliveira, "Implementing EHRs in Physical Therapy: Patients Perspectives", People Inc Asia -Oceania Congress For Neurorehabilitation AOCNR, Seul, Korea, North, Vol. 1, pp. 1 - 1, September, 2015,
56. G. Postolache, P.M. Girão, O. Postolache, "Wearable Sensor Network to Study Laterality of Brain Functions", International Conf. of the IEEE Engineering in Medicine and Biology Society - EMBC, Milan, Italy, Vol. 1, pp. 1 - 4, August, 2015,
57. O. Postolache, "Instrumented Equipment and Mobile APPs for Objective Evaluation of Physical Therapy", International Conf. of the IEEE Engineering in Medicine and Biology Society - EMBC, Milano, Italy, Vol. 1, pp. 1 - 1, August, 2015,
58. O. Postolache, F.C. Cary, N.D Duarte, P.M. Girão, "Physiotherapy Assessment based on Kinect and Mobile APPs", International Conf. on Information, Intelligence Systems and Applications - IISA, Corfu, Greece, Vol. 1, pp. 1 - 6, July, 2015,
59. J. M. Dias Pereira, V.V. Viegas, O. Postolache, P.M. Girão, "FIELDDBUS: Developing a Laboratory Prototype for Learning Purposes", IEEE International Conference on Electronic Measurements and Instruments ICEMI 2015, Qingdao, China, Vol. 1, pp. 387 - 391, July, 2015,
60. O. Postolache, J. M. Dias Pereira, P.M. Girão, V.V. Viegas, G. Postolache," WSN Gait Monitoring for Objective Evaluation of Rehabilitation Proces", Conf. on Electronic Measurement & Instruments - ICEMI, Qingdao, China, Vol. 1, pp. 1637 - 1641, July, 2015,
61. G. Postolache, O. Postolache, "Wearable and Unobtrusive Technologies for Gait Assessment in Parkinson's disease and Multiple Sclerosis", International Neurology and Rehabilitation Meeting - INEREM, Istanbul, Turkey, Vol. 1, pp. 1 - 2, June, 2015,
62. Postolache O., Pereira M.D., Viegas V., Girão P.M., "Gait rehabilitation assessment based on microwave Doppler radars embedded in walkers", Proceedings of IEEE International Symposium in Medical Measurements and Applications, Torino, Italy, pp. 1-6, May, 2015
63. V.V. Viegas, J. M. Dias Pereira, P.M. Girão, G. Postolache, O. Postolache, "Smart Transducer Interfaces Applied to Health Monitoring", IEEE Instrumentation and Measurement Technology Conf., Pisa, Italy, Vol. 1, pp. 1 - 6, May, 2015,
64. O.Postolache, , J. M. Dias Pereira, P.M. Girão, G. Postolache, , "Wearable System for Gait Assesment during the Physical Rehabilitation Process" International Symposium on Advanced Topics in Electrical Engineering ATEE2015, Bucharest, Romania, May, 2015,
65. J. M. Dias Pereira, O. Postolache V.V. Viegas, P.M. Girão, "A Low Cost Measurement System to extract Kinematic Parameters from Walker Devices", IEEE Instrumentation and Measurement Technology Conf., Pisa, Italy, Vol. 1, pp. 1 - 6, May, 2015,
66. Duarte N.; Postolache, O.; "KSGphysio – Kinect Serious Game for Physiotherapy", Proc International Workshop on Electromagnetic Compatibility and Engineering in Medicine and Biology - EPE-W, Iasi, Romania, Vol. 1, pp. 1 - 6, October, 2014.
67. Madeira R.; L. Costa Postolache, O.; "PhysioMate - Pervasive Physical Rehabilitation based on NUI and Gamification", Proc International Workshop on Electromagnetic Compatibility and Engineering in Medicine and Biology - EPE-W, Iasi, Romania, Vol. 1, pp. 1 - 6, October, 2014.
68. Viegas, V.V.; Dias Pereira, J. M.; Postolache, O.; Girão, P.M.; "Transducer Electronic Data Sheets: Why Not Print Them?", Proc International Conf. and Exposition on Electrical and Power Engineering - EPE, Iasi, Romania, Vol. 1, pp. 1-5, October, 2014.

69. Cary F.C. ; Postolache, O.; Girão, P.M.; "Kinect Based System and Serious Game Motivating Approach for Physiotherapy Assessment and Remote Session Monitoring", Proc International Conf. on Sensing Technology - ICST, Liverpool, United Kingdom, Vol. 1, pp. 1 - 5, September, 2014.
70. Girão, P.M.; Postolache, O.; G. Postolache; Ramos, P.M.; Dias Pereira, J. M.; "Microwave Doppler Radar in Unobtrusive Health Monitoring", Proc IMEKO Joint IMEKO TC1-TC7-TC13 Symposium, Funchal, Portugal, Vol. 1, pp. 1 - 4, September, 2014.
71. Postolache G.; Girão, P.M.; Postolache, O.; "Applying smartphone apps to drive greater patient engagement and personalized physiotherapy", Proc IEEE International Workshop on Medical Measurements and, Lisboa, Portugal, Vol. 1, pp. 1 - 6, June, 2014
72. Carvalho H. , A.P.Catarino, A. Rocha, Postolache, O.; "Health Monitoring using Textile Sensors and Electrodes", Proc IEEE International Symposium on Medical Measurements and, Lisboa, Portugal, Vol. 1, pp. 1 - 5, June, 2014.
73. Cary F.C.; Postolache, O.; Girão, P.M.; "Kinect Based System and Artificial Neural Networks Classifiers for Physiotherapy Assessment", Proc IEEE International Workshop on Medical Measurements and, Lisboa, Portugal, Vol. 1, pp. 1 - 5, June, 2014.
74. Postolache, O.; Viegas, V.V.; Dias Pereira, J. M.; Girão, P.M.; G. Postolache; "Toward Developing a Smart Wheelchair for User Physiological Stress and Physical Activity Monitoring", Proc IEEE International Workshop on Medical Measurements and, Lisboa, Portugal, Vol. 1, pp. 1 - 5, June, 2014.
75. Postolache, O.; M.R.Ribeiro; Girão, P.M.; Dias Pereira, J. M.; G. Postolache; "Unobtrusive Sensing for Gait Rehabilitation Assesment", Proc EAI International Pervasive Health Workshop on Patient Rehabilitation research Techniques - REHAB, Oldenburg, Germany, Vol. 1, pp. 1 - 4, May, 2014.
76. A. Teixeira; Postolache, O.; "Wireless Sensor Network and Web based Information System for Asthma Trigger Factors Monitoring", Proc IEEE Instrumentation and Measurement Technology Conf., Montevideo, Uruguay, Vol. 1, pp. 1 - 5, May, 2014.

Edited and Author Books

S. C. Mukhopadhyay, O. Postolache, K. Jayasundera (Editors), Modern Sensing Technologies, Smart Sensors, Measurement and Instrumentation Series, Springer Berlin Heidelberg, June 2018, Hardcover ISBN 978-3-319-99539-7| eBook ISBN 978-3-319-99540-3.

S C. Mukhopadhyay, O. Postolache, K. Jayasundera, A. Swain (Editors), Sensors for Everyday Life: Environmental and Food Engineering, Springer Berlin Heidelberg, Berlin, 2016, Hardcover ISBN 978-3-319-47321-5| eBook ISBN 978-3-319-47322-2.

O. Postolache, S C. Mukhopadhyay, K. Jayasundera, A. Swain (Editors), Sensors for Everyday Life: Healthcare Settings, Springer Berlin Heidelberg, Berlin, 2016, Hardcover ISBN 978-3-319-47318-5| eBook ISBN 978-3-319-47319-2.

C. Mukhopadhyay, O. Postolache (Editors) Pervasive and Mobile Sensing and Computing for Healthcare: Technological and Social Issues, Smart Sensors, Measurement and Instrumentation Series, Springer, 2013, ISBN-10: 3642325378 | ISBN-13: 978-3642325373.

Octavian Postolache, Mihai Cretu, Cristian Fosalau. Processamento de Sinais - Teoria e Aplicações. Editora "Gh. Asachi", Iasi, 233 páginas, em romeno, ISBN 973-8050-40-50.

Cristian Fosalau, Octavian Postolache, CAD em Instrumentação de Medida. Editora "Gh. Asachi", Iasi, Roménia, 198 páginas, em romeno, ISBN 973-7990-30-40.

Nita Lucian, Mihai Cretu, Cristian Fosolau, Octavian Postolache *Sistemas Automáticos de Medida Suportados em Computador*. Editora MATRIX Rom, Bucureste, 209 páginas, em romeno, ISBN 973-685-100-1.

César Benavente-Peces, Patrich Plainchaut, Octavian Postolache, (Editors), “SENSORNETS 2015”, Proceedings of the 4th International Conference on Sensor Networks, Angers, France, SciTePress, February 2015, ISBN 978-989-758-086-4.

Filipe J, Valente F., Postolache O., Folgoa N., (Editors) “Actas de Workshop PI-2010 Projetos de Fim de Curso da Informática da ESTSetubal 2010” Ed. Escola Superior de Tecnologia de Setubal, ISBN-978-972-99824-7-7, outubro de 2010.

Martin van Sinderen, Octavian Postolache, César Benavente-Peces (Editors), “SENSORNETS 2012”, Proceedings of the 1st International Conference on Sensor Networks, Rome, Italy, SciTePress, 2012, ISBN 978-989-8565-01-3.

Marten van Sinderen, Octavian Postolache, César Benavente-Peces (Editors), “SENSORNETS 2013” Proceedings of the 2nd International Conference on Sensor Networks, Barcelona, Spain, SciTePress, 2013, ISBN: 978-989-8565-45-7.

Octavian Postolache, Marten van Sinderen, Falah H. Ali, César Benavente-Peces “SENSORNETS 2014” - Proceedings of the 3rd International Conference on Sensor Networks, Lisbon, Portugal, SciTePress, 2014, ISBN: 978-989-758-001-7.

Selected Lectures and other Presentations

- O. Postolache, “Smart Tailored Environments for Neuro-Motor Rehabilitation Monitoring in IoT Era”, IEEE IMS Spain Chapter, “Smart Sensors and Instrumentation”, Trinity College Dublin, August, 2020
- O. Postolache, “Smart Sensors and Tailored Environments for Physical Rehabilitation in IoT Era”, IEEE IMS Spain Chapter, “Smart Sensors and Instrumentation”, University of Oviedo, Spain, July, 2019
- O. Postolache, “Smart Sensors and Tailored Environments for Physical Rehabilitation in IoT Era”, IEEE IMS NZ Chapter Seminar, University of Auckland, Auckland, NZ, May, 2019
- O. Postolache, “Smart Sensors and Tailored Environments for Physical Rehabilitation in IoT Era”, IEEE Romanian Section Seminar, “Politehnica” University of Bucharest, Bucharest, Romania, March, 2019
- O. Postolache, “Emerging 5G and IoT Tutorial: Fundamentals and Applications,” IEEE International Instrumentation and Measurement Technology Conference I2MTC 2018, Huston, TX, May, 2018
- O. Postolache, “Smart Sensors and Tailored Environments for Physical Rehabilitation in IoT Era”, IEEE International Instrumentation and Measurement Technology Conference I2MTC 2017, Torino, Italy, May, 2017
- O. Postolache, “Tutorial on Instrumented Equipment for Physical Rehabilitation”, IEEE International Instrumentation and Measurement Technology Conference I2MTC 2017, Taipei, Taiwan, May, 2016
- O. Postolache, “Tutorial on Unobtrusive Smart Sensing and Pervasive Computing for Healthcare”, IEEE International Instrumentation and Measurement Technology Conference I2MTC 2015, Pisa, Italy, May, 2015
- O. Postolache, “Electronic Health Record for Physiotherapy: Unobtrusive Smart Sensing Solutions”, INSTICC International Conference on Sensor Networks, Sensornets 2015, Invited Talk, Angers, February, 2015.
- O. Postolache, “S- Health a new challenging field of wireless communication, m-health and smart cities”, IEEE TC-13 Wireless & Telecommunications in Measurements Workshop, invited talk, Iasi,

Romania, October, 2014.

- O. Postolache, “Unobtrusive Smart Sensing and Pervasive Computing for Healthcare: Cardiac and Motor Activity Assessment ”, Plenary Speaker at IMCCC 2014, Harbin, IEEE IMS Beijing & Harbin Chapter September, 2014.
- O. Postolache, “Unobtrusive Sensing and Signal Processing with Application in Physiotherapy” , Seminar “PPGEE Distinguished Lecturers Series” Federal University of Rio Grande do Sul, Invited talk, May, 2014.
- O. Postolache, “Unobtrusive Smart Sensing and Pervasive Computing for Healthcare”, Distinguished Lecturer, IEEE Distinguished Lecturer Program, invited talk School of Electrical and Electronic Engineering, University of Manchester, UK, December, 2014.
- O. Postolache., “Behavior Engine Characterization based on Sensing and Computation” Plenary Speaker, 1st Brazilian-Portuguese Symposium in Neurorehabilitation and Motor Control ”, Christmas, Brazil, September, 2014.
- O. Postolache, ”Pervasive and Mobile Sensing and Computing for Healthcare. Technological and Social Issues ”Keynote Speaker at the IEEE Conference: 4th IEEE International Conference on e-Health and Bioengineering, EHB 2013, 21 November to 23 November 2013, Iasi, Romania. IEEE EMB Romanian Chapter.
- O. Postolache, “Unobtrusive Cardio-Respiratory Monitoring Based on Microwave Doppler Radar,” Keynote Speaker at IEEE Conference: 2012 International Conference and Exposition on Electrical and Power Engineering 25-27 October 2012, Iasi, Romania. IEEE EMB and EMC Romanian Chapter.
- O. Postolache, “Wireless Communications and S-Health” Invited Talk at the IEEE Instrumentation and Measurement TC-13 workshop, October 14, 2014, Iasi, Romania, IEEE I&M TC-13 and IEEE EMB and EMC Romanian Chapter.
- O. Postolache, “Smart Objects and Serious Games with application in Physiotherapy” at the First Symposium Brazil Portugal on Motor Neurorehabilitation and Behavior ”, Rio Grande de Norte University, Natal, Brazil, 11-13, September 2014.
- O.Postolache, “Unobstrusive Smart Sensing and Pervasive Computing for Healthcare” Keynote Speaker-IEEE Distinguished Lecturer at IEEE Conference: 2014 International Conference and Exposition on Electrical and Power Engineering 16-18 October 2014, Iasi, Romania. IEEE EMB and EMC Romanian Chapter.
- O.Postolache “Distributed and virtual measurements” Tutorial, International Training School and Results Evaluation Workshop “Application of sensors networks in food industry, agriculture and medicine”, Marie Curie - Senseiver Grant agreement Number: 289481, 13-17 October 2014, Iasi , Romania.
- O.Postolache, “Design of electronic circuits, signal processing and communication systems” Tutorial, International Training School and Results Evaluation Workshop “Application of sensors networks in food industry, agriculture and medicine”, Marie Curie - Senseiver Grant agreement Number: 289481, 13-17 October 2014, Iasi, Romania.
- O.Postolache (Keynote speaker), “Unobtrusive Smart Sensing and Pervasive Computing for Healthcare: Physiotherapy”, Seminar organized by Technical ChapterIM09 / CAS04 / COM19 (Florianópolis / South) and the University of Santa Catarina, Florianopolis, Brazil, August 7, 2015

- O.Postolache (Keynote speaker), “Unobtrusive Smart Sensing and Pervasive Computing for Healthcare: Physiotherapy” 2nd Workshop on Circuits and Systems for Instrumentation, organized. Yuri Catunga, UFRGN, Natal, Brazil, August 5, 2015
- O.Postolache (Keynote speaker), “Unobtrusive Smart Sensing and Pervasive Computing for Healthcare: Cardiorespiratory and Physical Rehabilitation Monitoring” 7th Seminar on Electronics and Advanced Design, hosted by Prof. Dr. Juan Manuel Ramirez, IEEE I&M Puebla Chapter Chair, INAOE, Puebla, Mexico, September 24, 2015.
- O.Postolache (keynote speaker), “Unobtrusive Smart Sensing and Pervasive Computing for Healthcare: Cardiorespiratory Monitoring”, IEEE EHB 2015 Conference, Iasi, Romania, November 16, 2015.
- O.Postolache (invited talk), “Unobtrusive Smart Sensing and Pervasive Computing for Healthcare: Cardiorespiratory and Physical Rehabilitation Monitoring,” International Conference on Sensor Technology ICST 2015, Auckland, NZ, December 12, 2015.
- O.Postolache (invited talk), “Unobtrusive Smart Sensing and Pervasive Computing for Healthcare: Cardiorespiratory and Physical Rehabilitation Monitoring”, Seminar by Massey University, Palmerston North Campus, December 14, 2015.
- O.Postolache (invited talk), “Unobtrusive Smart Sensing and Pervasive Computing for Healthcare: Cardiorespiratory and Physical Rehabilitation Monitoring,” Seminar hosted by Callaghan, Wellington, December 15, 2015
- O.Postolache (invited talk), “Unobtrusive Smart Sensing and Pervasive Computing for Healthcare: Cardiorespiratory and Physical Rehabilitation Monitoring” Seminar organized by Lincoln Agritech Canterbury 7640, New Zealand December, 16, 2015.
- O.Postolache (invited talk), “Instrumented Equipment and Mobile APPs for Objective Evaluation of Physical Therapy”, IEEE EMBC, 2015, Milan, Italy, August, 28, 2015,
- Postolache O. “Research Projects - Powered by National Instruments Technology” guest speaker, LabVIEW Technical Journals, ISQ, October 2011.
- Postolache O., Girão P., Santiago F. “HomeTelecare” guest speaker, Innovation Plan Workshop 2010-2012. Innovation, Aveiro, March 2011.
- Postolache O. “Pervasive Sensing in Cardiorespiratory Activity Assessment and Motor Rehabilitation”, invited speaker on SMART ARM - Workshop on Self Monitoring, Analysis and Recording Technologies for Adverse Reactions to Medications, WARM 2010, IEEE I&M Canada Chapter, Ottawa, Canada, November 2010 .
- Postolache O. “Non-invasive and unobtrusive sensing solutions for human homeostasis assessment”, invited speaker on SMART ARM - Workshop on Self Monitoring, Analysis and Recording Technologies for Adverse Reactions to Medications, WARM 2009, IEEE I&M Canada Chapter, Ottawa, Canada, November 2009.
- Postolache, O. ”Sensors and Automatic Measurement Systems for Vital Signs Monitoring” guest speaker University of Porto, Abel Salazar Institute of Biomedical Sciences (ICBAS), PhD Course in Gerontology and Geriatrics, Seminar on Gerontechnology - Porto, December, 2009,
- Postolache, O. “Virtual Instrumentation - A Technology with Application in Monitoring Underwater Acoustic Signals and Water Quality Parameters”, guest speaker, Setúbal Bay Association, Setúbal, Portugal, May 2007

- Postolache O. “Neural Network Application in Instrumentation and Sensor Area” guest speaker at the Seminar organized by the Instrumentation and Measurement Group, Telecommunications Institute, May 2007.
- Postolache, O. “Matlab Scripts in LabVIEW for biomedical signal processing” guest speaker at National Instruments Seminar, Portugal, IST, Lisbon, May 2005

Other Professional Activities

- Organization of the 13th edition of IEEE International Conference on Sensing Technology, TPC-chair of the Conference, Sydney, Australia, December 2019.
- Organization of the 2nd edition of IEEE International Symposium on Sensing and Instrumentation in IoT Era, General Chair of the Conference, Lisbon, PT, August 2019.
- Organization of the 1st edition of IEEE International Symposium on Sensing and Instrumentation in IoT Era, General Chair of the Conference, Shanghai, CN, September 2018.
- Organization of the 12th edition of IEEE International Conference on Sensing Technology, TPC-chair of the Conference, Limerick, Ireland, December 2018.
- IEEE International Instrumentation and Technology Conference, I2MTC, Special Session Chair, Track Chair, Technical Committee Member, Huston, Texas, USA, May 2018.
- IEEE International Instrumentation and Technology Conference, I2MTC, Session Chair, Technical Committee Member, Torino, Italy, May 2017.
- IEEE International Instrumentation and Technology Conference, I2MTC, Session Chair, Technical Committee Member, Taipei, Taiwan, May 2016.
- IEEE International Instrumentation and Technology Conference, I2MTC, Session Chair, Technical Committee Member, Pisa, Italy, May 2015.
- Organization of the 11th edition of IEEE International Conference on Sensing Technology, TPC-chair of the Conference, Sydney, AU, December 2017.
- Organization of the 9th edition of IEEE International Conference on Sensing Technology, TPC - chair of the Conference, Auckland, NZ, December 2015.
- Organization of the 4th International Conferences in Sensor Networks (INSTICC), Program Chair and Session Chair, Angers, France, February 2015.
- Organization of 3rd International Conferences in Sensor Networks (INSTICC), co-chair of the Organizing Committee, Lisbon, Portugal, January 2014.
- Organization of the 9th edition of IEEE International Symposium on Medical Measurement and Applications, General Chair of the Conference, Lisbon, Portugal, June 2014.
- Organization of the 8th edition of IEEE International Conference on Sensing Technology, TPC-chair of the Conference, Liverpool, UK, September 2014.
- Organization of 2nd International Conferences in Sensor Networks (INSTICC), co-chair of the Organizing Committee, Barcelona, Spain, February 2013.
- Organization of 1st International Conferences in Sensor Networks (INSTICC), co-chair of the Organizing Committee, Rome, Italy, February 2012.
- Organization of 6th International Conference on Pervasive Computing Technologies for Healthcare (IEEE, EMBS), Workshops chair, San-Diego, USA, May 2012.
- IMEKO Organization World Congress - Member of the Organizing Committee, September 2009. IEEE EMBS Portugal - Technical Adviser in Biomedical Signal Processing, since 2010.
- IEEE International Conference on Sensing Technology - ICST, Palmerston North, Special Session Chair, Technical Committee Member, New Zealand, November 2011.
- INSTIC International Conference on Bio-Inspired Systems and Signal Processing, Vila Moura Technical Committee Member, Portugal, February 2012.
- IEEE International Workshop on Medical Measurements and Applications, MEMEA Session Chair, Technical Committee Member, Bari, Italy, May 2011.
- IEEE International Instrumentation and Technology Conference, IMTC, Session Chair, Technical Committee Member, Hangzhou, China, May 2011.
- World Congress on Information and Communication Technologies WICT 2011, Technical Committee Member, December 2011, Mumbai, India.
- 1st IEEE Portuguese Meeting in BioEngineering, Session Chair, Lisbon, Portugal, March 2011.
- IEEE Intelligent Data Acquisition and Adv. Computing, Technical Committee member IDAACS 2011.

- IEEE International Instrumentation and Technology Conference, I2MTC, Session Chair, Technical Committee member, Austin, United States, May 2010.
- IEEE Workshop on Adverse Response Monitoring -WARM 2010, Technical Committee Member and Invited Speaker, Ottawa, Ontario, Canada, December 2010.
- IEEE International Workshop on Medical Measurements and Applications, MEMEA, Session Chair, Technical Committee member, Ottawa, Canada, April 2010.
- International Conference on Biomedical Engineering, Session Chair, Innsbruck, Austria, February 2010.
- IEEE, Warning Response Monitoring Workshop, WARN 2009, Technical Committee member and Invited Speaker, Ottawa, Ontario, Canada, November 2009.
- IMEKO World Congress, Session Chair, Technical Committee member, Organizing Committee Member, Lisbon, Portugal, September 2009.
- IEEE International Workshop on Medical Measurements and Applications, MEMEA, Session Chair, Technical Committee member, Cetraro, Italy, 2009.
- IEEE Workshop on Intelligent Data Acquisition and Adv. Computing, Technical Committee Member IDAACS 2009.
- IMEKO TC4 Symposium and 13 th Workshop on ADC Modeling and testing, Session Chair, Technical Committee Member, Florence, Italy, September 2008.
- IEEE International Instrumentation and Technology Conference, I2MTC, Session Chair, Technical Committee Member, Victoria, Canada, May 2008.
- IEEE International Workshop on Medical Measurements and Applications, , Session Chair, Technical Committee Member, Ottawa, Canada, May 2008.
- 1st IMEKO TC19 Symposium on Measurements and Instrumentation for Environmental Monitoring, Session Chair, Technical Committee member, Iasi, Romania, September 2007.
- 15th IMEKO TC4 Symposium on Novelties in Electrical Measurements and Instrumentation, Session Chair, Technical Committee member, Iasi, Romania, September 2007.
- Reviewer for various journals including (IEEE Transactions on Instrumentation and Measurement, IEEE Sensors Journal, Sensors MDPI, IEEE Transaction in Neural Network).
- Reviewer for various conferences, including IEEE ICST, IEEE I2MTC, IEEE MeMeA, IEEE ISSI.

Editorial activity

Associate Editor of IEEE Sensors Journal, Q1 ISI Journal impact factor 2,617;

Associate Editor of IEEE Transaction on Instrumentation and Measurements, Q1 ISI Journal impact factor 2,794, 2016-2017, 2020

Guest Editor IEEE Transaction on Instrumentation and Measurements; 2019

Associate Editor of Sensors MDPI Open Journal, Q1 ISI Journal impact factor 2,47, 2018-present;

Editorial Board Member, Electronics, MDPI Open Journal, Q1 ISI Journal 2020;

Guest Editor of “Sensing and Instrumentation in IoT Era”, Sensors MDPI open Journal, 2018-2019;

Guest Editor of “Intelligent Sensing Technologies for Nondestructive Evaluation”, Sensors MDPI open Journal, 2017-2018;

Guest Editor of “Sensing Technology for Healthcare System”, Sensors MDPI open Journal, 2017-2018.