

# CURRICULUM VITAE

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## Rosario Morello

*Associate Professor, Ph.D. Eng.*

Scientific Director of *Advanced Thermography Center*  
Dept. DIIES, University Mediterranea of Reggio Calabria, ITALY

### SHORT BIOGRAPHY



and of IEEE Association.

Rosario Morello was born in Reggio Calabria, Italy, in 1978. He received the M.Sc. Degree (cum laude) in Electronic Engineering and the Ph.D. Degree in Electrical and Automation Engineering from the University Mediterranea of Reggio Calabria, Italy, in 2002 and 2006, respectively. Since 2005, he has been temporary Professor of Electrical and Electronic Measurements at the Department DIIES of the same University. At the moment, he is Associate Professor and Scientific Director of the Advanced Thermography Center at Dept. DIIES, University Mediterranea of Reggio Calabria, Italy. His main research interests include advanced thermography, the design and characterization of distributed and intelligent measurement systems, wireless sensor network, environmental monitoring, decision-making problems and measurement uncertainty, process quality assurance, instrumentation reliability and calibration, biomedical applications and statistical signal processing, non-invasive systems, measurement instrumentation and methodologies related to Healthcare Systems.

Dr. Morello is a member of the Italian Group of Electrical and Electronic Measurements (GMEE)

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### EDUCATION

Doctor of Philosophy on Electrical Engineering and Automation, University Mediterranea of Reggio Calabria, Reggio Calabria, ITALY (2006).

Master on Expert Technician for Metrological Laboratories, University of Naples Federico II, Naples, ITALY (2003).

M.Sc. Degree (cum laude) in Electronic Engineering, University Mediterranea of Reggio Calabria, Reggio Calabria, ITALY (1997-2002).

### AWARDS AND FELLOWSHIPS

Doctorate Grant, "Project and metrological characterization of a web-sensor network for electromagnetic field monitoring", University Mediterranea of Reggio Calabria, Reggio Calabria, ITALY (2003-2006).

Research Grant, "Advanced e-learning technique for remote control of laboratory instrumentation", University of Naples Federico II, Naples, ITALY (2008-2009).

Post-doc Grant, "Characterization and calibration of power meters", Carical Foundation, ITALY (2009-2010).

Post-doc Grant, "Project and validation of a measurement system for environmental monitoring in greenhouse", University Mediterranea of Reggio Calabria, Reggio Calabria, ITALY (2011-2012).

### RESEARCH INTERESTS

- active and passive thermography
- design and characterization of distributed and intelligent measurement systems
- wireless sensor network and smart sensors
- environmental monitoring
- decision-making problems
- measurement uncertainty
- process quality assurance
- instrumentation reliability and calibration
- power quality and energy

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- biomedical applications
- analysis and processing of biomedical data
- myoelectric signal processing
- project and characterization of wearable and non-invasive systems
- body sensor network
- smart transducers and sensors
- project of measurement instrumentation
- methodologies related to Healthcare Systems
- medical image processing
- optimization of diagnostic criteria

### RESEARCH EXPERIENCE

Doctoral Research, "Project and metrological characterization of a web-sensor network for electromagnetic field monitoring", University Mediterranea of Reggio Calabria, Reggio Calabria, ITALY (2003-2006).

Post-doctoral Fellow, "Advanced Techniques of e-learning for sharing laboratory instrumentation on internet network", Consorzio MESE, Università degli Studi di Napoli "Federico II", Naples, ITALY (2008-2009).

Post-doctoral Fellow, "Characterization and calibration of power meters", Carical foundation, ITALY (2009-2010).

Post-doctoral Fellow, "Project and validation of a measurement system for environmental monitoring in greenhouse", University Mediterranea of Reggio Calabria, Reggio Calabria, ITALY (2011-2012).

Assistant Professor of Electrical and Electronic Measurements, University Mediterranea of Reggio Calabria, Reggio Calabria, ITALY (2013-2020).

Associate Professor of Electrical and Electronic Measurements, University Mediterranea of Reggio Calabria, Reggio Calabria, ITALY (since March 2020).

Member of several Research Units operating in Research Projects funded by National and European Governmental Institutions, (since 2003).

Member of Working Groups for Standardization: IEEE P1451.001™ Standard for "Recommended Practices for the Signal Treatment Applied to Smart Transducers"; ISO/IEC/IEEE P21451-1 Standard for "Smart Transducer Interface for Sensors and Actuators - Common Network Services"; IEEE P1588™ Standard for "Precision Clock Synchronization

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Protocol for Networked Measurement and Control Systems"; ISO/IEC/IEEE 21451-1-4 Standard "Sensei/IOT - a semantic web standard for Sensor Networks, M2M, and the Internet of Things (IoT)", (2012-on going).

## REVIEWER AND EDITORIAL EXPERIENCE

Reviewer for the IEEE Sensors Journal, Measurement, IEEE Instrumentation & Measurement Journal, Measurement Science Review Journal, International Journal of Measurement Technologies and Instrumentation Engineering, Science Measurement & Technology (IET).

Member of the Editorial Advisory Board del Sensors & Transducers Journal, ISSN 1726- 5479, (since 2006).

Editorial Board Member of BioMedical Engineering OnLine Journal, ISSN 1475925X, (2013-2015).

Editorial Board Member of the International Journal of Measurement Technologies and Instrumentation Engineering (IJMTIE), ISSN 2156-1737, (2013-2015).

Associate Editor and Editorial Board Member of the Metrology and Measurement Systems Journal, ISSN 2080-9050, (since 2013).

Editorial Board Member of Instrumentation Science and Technology Journal, ISSN 1073-9149, (since 2014).

Editorial Board Member of Measurement Science Review Journal, ISSN 1335 - 8871, (since 2015).

Associate Editor of Journal of Sensors and Sensor Systems (JSSS), ISSN: 2194-8771, (since 2015).

Section Editor and Layout Editor of Acta IMEKO Journal, ISSN 2221-870X, (since 2015).

Associate Editor of IEEE Sensors Journal, ISSN: 1530-437X, (since 2015).

Appointment as Associate Editor of International Journal on Smart Sensing and Intelligent Systems, ISSN: 1178-5608, (since 2018).

Guest Editor in-Chief and Topical Editor of IEEE Sensors Journal for the Special Issue on "Advancing Standards for Smart Transducer Interfaces" (2013-2014).

Guest Editor in-Chief and Topical Editor of IEEE Sensors Journal for the Special Issue on "Smart Sensors for Smart Grids and Smart Cities" (2016-2017).

Lead Guest Editor of the Special Issue on "Measurements for Smart Cities", Measurement Journal, ISSN: ISSN: 0263-

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2241, (2017-2019).

Guest Editor in-Chief and Topical Editor of IEEE Sensors Journal for the Special Issue on “Advances and Current Trends in Sensing Physiological Parameters for Human Wellness and Patient Monitoring” (2020 on going).

### TEACHING EXPERIENCE

Lecturer at the University Mediterranea of Reggio Calabria, Reggio Calabria, ITALY for the Courses (since 2005):

- 1) Electrical and Electronic Measurements
- 2) Measurement for Automation and Industrial Process
- 3) Measurement for Quality

Invited Lecturer for a lesson on “Measurement Uncertainty and Decision Making” at International Research Centre for Telecommunications and Radar (IRCTR), Delft University of Technology, October 25, 2013, Delft, The Netherlands.

### RESEARCH COORDINATION, RESEARCH FUNDING AND RESPONSABILITIES

Coordinator of Research Unit for the sub-WorkPackage A5.2 – “Smart devices and innovative metrics for the measurement and characterization of energy flow and gas consumption”, Project “Energia-Distretto DOMUS”, National Operative Program PON funded by National Research Ministry MIUR (PON03PE\_00050\_2). (2015-2017).

Coordinator of Research Unit for the sub-WorkPackage A2.1.b – “Measurement system for monitoring human vital signs”, Project “Sicurezza-Distretto DOMUS”, National Operative Program PON funded by National Research Ministry MIUR (PON03PE\_00050\_1). (2015-2017).

Supervisor of sub-Working Package “Measurement technologies and methodologies for the characterization of performances of a renewable energy production plant and monitoring of energy flow and storage systems”, - “ReNEW” UE-funded Research Project, Dept. DIIES, University Mediterranea of Reggio Calabria, IT.

Coordinator of Research Unit for the WorkPackage WP1 – “Smart grid and plants of distributed energy production by renewable sources: innovative technologies for the integration and characterization of plant performances, and sensor networks for monitoring and managing energy flows and storage systems”, Project “RENEW-MEL LABORATORY”,

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National Operative Program PON funded by National Research Ministry MIUR. (2017 on going).

Person in Charge of the Electrical and Electronic Measurements Laboratory, Dept. DIIES, University Mediterranea of Reggio Calabria, Italy (since 2013).

CEO of University Spin-off "MISBIO Srls" working on the development of biotechnologies field and non-invasive biomedical measurement systems (since 2014).

Scientific Supervisor of the Research Collaboration with the Center for Sensory-Motor Interaction, Department of Health Science and Technology, Aalborg University for the Project "An experimental project to assess quantitatively chronic visceral pain in subjects suffering from Irritable Bowel Syndrome", (201-2018).

Scientific Supervisor of the Research Collaboration with the Toyota Technological Institute, Japan, for the Project "Development of an enabling technology for estimating working conditions and residual lifetime of hybrid energy storage systems used in electric vehicles by DPHM (Diagnosis, Prognosis and Health Management) tests", (2014-2015).

Scientific Supervisor of the Research Collaboration with Mechatronics Engineering Programme, School of Engineering, Macquarie University (MQ), Sydney, Australia for the Project "Sensing systems and wearable/flexible sensors for smart network systems", (2017 on going).

Scientific Supervisor of the Research Collaboration with The University of British Columbia Okanagan, School of Engineering, Faculty of Applied Science, Canada, for the Project "Holistic Prognostic Health Management for Complex Systems and Smart Vehicle", (2017 on going).

Scientific Supervisor of the Research Collaboration with Electrical and Computer Engineering Department, Missouri University of Science and Technology, Rolla, Missouri, United States, for the Project "Active Thermography and Millimeter-waves for early Diagnosis of Skin Cancer", (2018 on going).

Scientific Supervisor of the Research Collaboration with Nokia Ai Lab, Nokia, MN GS CMBD, Nokia Solutions and Networks Sp. z o.o., Wroclaw, Poland, for the Projects "Development of e-Health and Assistive Technologies for Ambient Assisted Living applications in Smart Cities", "Pattern recognition and forecast using limited amount of noisy heterogeneous data", "Multisensor data processing and management", (2018 on going).

Scientific Director of the Advanced Thermography Center at Dept. DIIES, University Mediterranea of Reggio Calabria, Italy (since 2019).

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### RESEARCH SUPERVISOR AND DOCTORATE SCHOOLS

Supervisor of 2 PhD Students, Department DIIES, University Mediterranea of Reggio Calabria, Italy (2015 on-going).

Supervisor of Postdoc, Department DIIES, University Mediterranea of Reggio Calabria, Italy.

Member of Doctorate School Board, Doctorate School on "Information Engineering", Dept. DIIES, University Mediterranea of Reggio Calabria, Italy (since 2012).

### MEMBERSHIP AND HONORS

Member of the Institute of Electrical and Electronics Engineers (IEEE) - Instrumentation and Measurement Society (IMS).

Appointed as Member of the Technical Committee IMEKO TC13 – Measurements in Biology and Medicine.

Appointed as Member of the Technical Committee IMEKO TC19 – Environmental Measurement.

Chair of the Special Session on "Smart Transducers and Sensors" I2MTC 2014 – IEEE International Instrumentation and Measurement Technology Conference, May 12-15, 2014, Montevideo, Uruguay.

Chair of the Special Session on "Advances in Sensing Techniques for non-invasive diagnosis of the state of conservation of archaeological discoveries and historic sites", 1st International Conference on Metrology for Archaeology, Benevento, Italy, October 22 - 23, 2015.

Invited Talk on "Advances in Electromyography application: EGG and pain assessment" at 3rd IMEKO TC13 Symposium on Measurements in Biology and Medicine: "New Frontiers in Biomedical Measurements", April 17-18, 2014, Lecce, Italy.

Chair of the Special Session on "Advances in biomedical sensors and non-invasive sensor-based diagnostic techniques", MeMeA 2020 – 15th Edition of IEEE International Symposium on Medical Measurements and Applications, June 1 – 3, 2020 – Bari, Italy.

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### CONFERENCE ORGANIZATION AND TECHNICAL PROGRAM COMMITTEE

General Chair of 6th EnvImeko, Imeko TC19 Symposium on Environmental Instrumentation and Measurements, 24-25 June 2016, Reggio Calabria, Italy.

General Chair of Imeko TC19 Workshop on Environmental Instrumentation and Measurements: "Measurements for the Coastal Monitoring", October 28, 2016, Reggio Calabria, Italy.

Technical Program Committee Member of I2MTC – IEEE International Instrumentation and Measurement Technology Conference (since 2011).

International Programme Committee Member of 4th Imeko TC19 Symposium on Environmental Instrumentation and Measurements "Protecting Environment, Climate Changes and Pollution Control", June 3-4, 2013, Lecce, Italy.

Technical Program Chair of the 3rd IMEKO TC13 Symposium on Measurements in Biology and Medicine: "New Frontiers in Biomedical Measurements", April 17-18, 2014, Lecce, Italy.

Technical Program Committee Member of MeMeA IEEE International Symposium on Medical Measurement and Applications, (since 2014).

International Programme Committee Member of 5th Imeko TC19 Symposium on Environmental Instrumentation and Measurements "Methods and Advances in Measurements", September 23-24, 2014, Chemnitz, Germany.

Technical Program Committee Member of 20th IMEKO TC4 International Symposium "Measurement of Electrical Quantities" and 18th TC4 Workshop on ADC and DAC Modeling and Testing, September 15-17, 2014, Benevento, Italy.

### ACKNOWLEDGMENTS

National Scientific Professorship Qualification as University Associate Professor in "Measurement" object, awarded by Ministry of Education, Universities and Research (MIUR), Italy (2014-2020).

FFABR 2017 Grant "Annual Funding for basic research activity" on "Electric and Electronic Measurements" (SSD ING-INF/07) funded by National Ministry MIUR, (2017).

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### INDUSTRIAL INNOVATION GRANTS AND TECHNOLOGY TRANSFER

Tutoring and Mentoring of start-up, Project Name: "Export and Innovation Promoter", granted by Chamber of Commerce of Reggio Calabria, Italy (2012).

Member of the Working Group 'Contamination Lab', Task: Transfer of Technology for Promoting the Establishment of Innovative Start-Up, University Mediterranea of Reggio Calabria, Italy (2013 on-going).

Talent Lab-Startup Grant for Innovative Startup, Start-up name: MISBIO srls Academic Spin-Off of University Mediterranea of Reggio Calabria, Italy, CEO: Rosario Morello, awarded by Calabria Region, Providers: Calabrialnnova and Fincalabra, (2014 – 2015).

Co-founder of AMBITECH Srl University Spin-Off of University Mediterranea of Reggio Calabria, Italy (2014 on-going) .

### PUBLICATIONS

Rosario Morello is author of more than 100 manuscripts published in national and international Journals and in Conference proceedings, and Chapters of Book.

Main publications concerning the Measurement and Instrumentation field:

#### **International Journals**

- C. De Capua, S. De Falco, R. Morello, Measurements for the Qualification of Health Services, IFMBE Proceedings, ISSN: 1680-0737, Vol. 6, 2004.
- C. De Capua, A. Liccardo, R. Morello, Network of Smart Sensors for Remote Electromagnetic Field Monitoring With a Fuzzy Alarm Reporting, Sensors & Transducers Magazine (S&T E-Digest), ISSN: 1726-5479, Vol.56, Issue N.6, June 2005, pp.320-325.
- C. De Capua, R. Morello, N. Pasquino, A Fuzzy Approach to Decision Making about Compliance of Environmental Electromagnetic Field with Exposure Limits, IEEE Trans. on Instrumentation and Measurement, ISSN: 0018-9456, Vol. 58, Issue 3, pp. 612-617, March 2009.
- C. De Capua, A. Meduri, R. Morello, A Smart ECG Measurement System Based on Web Service Oriented Architecture for Telemedicine Applications, IEEE Transactions on Instrumentation and Measurement, ISSN: 0018-9456, Vol. 59, Issue 10, pp. 2530-2538, 2010.
- R. Morello, C. De Capua, A. Meduri, A Wireless Measurement System for Estimation of Human Exposure to Vibration during the use of Hand-Held Percussion Machines, IEEE Transactions on Instrumentation and

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- Measurement, ISSN: 0018-9456, Vol. 59, Issue 10, pp. 2513-2521, 2010.
- C. De Capua, R. Morello, R. Carbone, Measurement Uncertainty in Decision-Making: How to Take Reliable Decisions Under Uncertainty, *International Journal of Measurement Technologies and Instrumentation Engineering (IJMTIE)*, ISSN: 2156-1737, EISSN: 2156-1729, Vol. 1, Issues 3, 2011.
  - L. Fabbiano, G. Vacca, R. Morello, C. De Capua, An Innovative Strategy for Correctly Interpreting Simultaneous Acquisition of EEG Signals and fMRI Images, *IEEE Sensors Journal*, ISSN: 1530-437X, Vol. 13, Issue 9, pp. 3175–3181, 2013.
  - R. Morello, C. De Capua, L. Fabbiano, G. Vacca, M. Luiso, Ocular Biometric Measurements to Diagnose Neurological Disorders due to Wilson Disease, *IEEE Sensors Journal*, ISSN: 1530-437X, Vol. 13, Issue 9, pp. 3203-3210, 2013.
  - R. Morello, C. De Capua, L. Fabbiano, G. Vacca, G. Lipari, A Web Service Based Mobile Application for Detecting Kayser-Fleischer Ring in Eye Cornea, *Instrumentation Science & Technology Journal*, ISSN: 1073-9149, Vol. 42, Issue 1, pp. 95-108, January 2014.
  - A. Lay-Ekuakille, P. Vergallo, R. Morello, C. De Capua, Indoor Air Pollution System based on LED Technology, *Measurement Journal*, ISSN: 0263-2241, Volume 47, pp. 749–755, 2014.
  - Aimé Lay-Ekuakille, Patrizia Vergallo, Giuseppe Griffo, Rosario Morello, Pipeline Flow Measurement using Real-Time Imaging, *Measurement Journal*, ISSN: 0263-2241, Vol. 47, pp. 1008–1015, 2014.
  - V. Pelillo, L. Piper, A. Lay-Ekuakille, A. Lanzolla, G. Andria, R. Morello, Geostatistical Approach for Validating Contaminated Soil Measurements, *Measurement Journal*, ISSN: 0263-2241, Vol. 47, pp. 1016–1023, 2014.
  - Francesco Adamo, Gregorio Andria, Giuseppe Cavone, Claudio De Capua, Anna Maria Lucia Lanzolla, Rosario Morello, and Maurizio Spadavecchia, Estimation of ship emissions in the port of Taranto, *Measurement Journal*, ISSN: 0263-2241, Vol. 47, 2014, pp. 982–988, 2014.
  - Francesco Adamo, Claudio De Capua, Pasquale Filianoti, Anna Maria Lucia Lanzolla, Rosario Morello, A Coastal Erosion Model to Predict Shoreline Changes, *Measurement Journal*, ISSN: 0263-2241, Volume 47, pp. 734–740, 2014.
  - Francesco Lamonaca, Gianluca Pizzuti, Natale Arcuri, Anna Maria Palermo, Rosario Morello, Monitoring of environmental parameters and pollution by fungal spores in the national gallery of cosenza: a case of study, *Measurement Journal*, ISSN: 0263-2241, Vol. 47, pp. 1001–1007, 2014.
  - R. Morello, C. De Capua, F. Lamonaca, M.G. Belvedere, Experimental Validation of Revised Criteria for Pulmonary Hypertension Diagnosis by Uncertainty Evaluation, *IEEE Transactions on Instrumentation and Measurement*, ISSN: 0018-9456, Vol. 63, Issue 3, pp. 592–602, 2014.
  - A. Burgio, R. Carbone, R. Morello, A. Pinnarelli, Grid-Connected PV-Plants Based on a Distributed Energy-Storage System and a Multilevel Inverter, *International Review of Electrical Engineering (IREE) Journal*, ISSN: 1827-6660, Vol. 8, N. 4, pp. 1267-1278, August 2013.

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- Daniele Gallo, Carmine Landi, Mario Luiso, Rosario Morello, Optimization of Experimental Model Parameter Identification for Energy Storage Systems, *Energies Journal*, ISSN: 19961073, Vol. 6, Issue 9, pp. 4572-4590, September 2013.
- L. Ferrigno, R. Morello, V. Paciello, A. Pietrosanto, Remote metering in public networks, *Metrology and Measurement Systems*, ISSN: 2080-9050, Vol. 20, Issue 4, pp. 705–714, October 2013.
- C. De Capua, L. Fabbiano, R. Morello, G. Vacca, Optimized Procedure to Evaluate the Thermal Energy Transfer in Hemodialysis Treatment, *Instrumentation Science & Technology Journal*, ISSN: 1073-9149, Vol. 42, Issue 4, pp. 458-468, 2014.
- R. Morello, V. Paciello, A Decisional Model for Estimating Reliability Curve and Maintenance Intervals of Instrumentation, *Instrumentation Science & Technology Journal*, ISSN: 1073-9149, Vol. 42, Issue 4, pp. 446-457, 2014.
- F. Lamonaca, D. Grimaldi, R. Morello, Dynamic Scheduling of Trigger Command for Sub-Microsecond Alignment Accuracy in Distributed Measurement System, *IEEE Transactions on Instrumentation and Measurement*, ISSN: 0018-9456, Vol. 63, Issue 7, pp. 1795-1803, 2014.
- R. Morello, C. De Capua, M. Lugarà, F. Lamonaca, L. Fabbiano, Risk model for landslide hazard assessment, *IET Science, Measurement and Technology Journal*, ISSN 1751-8822, Vol. 8, Issue 3, pp. 129–134, 2014.
- R. Morello, Use of TEDS to Improve Performances of Smart Biomedical Sensors and Instrumentation: an overview on advances and applications of ISO/IEC/IEEE 21451 Standard, *IEEE Sensors Journal*, ISSN: 1530-437X, Vol. 15, Issue 5, pp. 2497 - 2504, 2015. (top 50 most downloaded papers-November 2015)
- R. Morello, C. De Capua, An ISO/IEC/IEEE 21451 Compliant Algorithm for Detecting Sensor Faults: an approach based on repeatability and accuracy, *IEEE Sensors Journal*, ISSN: 1530-437X, Vol. 15, Issue 5, pp. 2541 - 2548, 2015.
- A. Lay-Ekuakille, S. Ikezawa, M. Mugnaini, R. Morello, C. De Capua, Detection of specific macro and micropollutants in air monitoring: Review of methods and techniques, *Measurement Journal*, ISSN: 0263-2241, Vol. 98, 1 February 2017, pp. 49-59, 2017.
- G. Li, J. Wu, J. Li, T. Ye, R. Morello, Battery Status Sensing Software-Defined Multicast for V2G Regulation in Smart Grid, *IEEE Sensors Journal*, ISSN: 1530-437X, Vol. 17, no. 23, pp. 7838-7848, 2017. (top 50 most downloaded papers-November 2017). (top 25 most downloaded papers-December 2017)
- R. Morello, S.C. Mukhopadhyay, Z. Liu, D. Slomovitz, S. R. Samantaray, Advances on Sensing Technologies for Smart Cities and Power Grids: A Review, *IEEE Sensors Journal*, ISSN: 1530-437X, Vol. 17, no. 23, pp. 7596 -7610, 2017.
- R. Morello, C. De Capua, G. Fulco, S.C. Mukhopadhyay, A Smart Power Meter to Monitor Energy Flow in Smart Grids: The Role of Advanced Sensing and IoT in the Electric Grid of the Future, *IEEE Sensors Journal*, ISSN: 1530-437X, Vol. 17, no. 23, pp. 7828-7837, 2017.

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- Claudio De Capua, Rosario Morello, Ireneusz Jablonski, Active and Eddy Current Pulsed Thermography to Detect Surface Crack and Defect in Historical and Archaeological Discoveries, *Measurement Journal*, ISSN: 0263-2241, Vol. 116, pp. 676-684, February 2018.
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