

PERSONAL INFORMATION Gregorio Andria

 Dept. of Electrical & Information Engineering, Politecnico di Bari, Via Re David 200, 70125 Bari, Italy

**WORK EXPERIENCE****01/11/1983–31/10/1986 Scholarship-awarded Ph.D Fellow**

Polytechnic University of Bari, Bari (Italy)

- studying and research activities
- educational activities
- production of laboratory experiments and reports on scientific papers

01/11/1986–01/11/1987 Secondary education teaching professional

State Technical Institute "Galileo Galilei", Gioia del Colle (Italy)

- Teaching "Technical Design", including important ISO rules about dimensioning and design

02/11/1987–31/07/1996 Laboratory Assistant

Polytechnic University of Bari, Bari (Italy)

- Responsible for instruments, tools and systems in the laboratory of Electrical and Electronic Measurements;
- Responsible for teaching experimental exercises for university courses;
- Collaboration in research and technology transfer;
- Production of scientific papers.

01/08/1996–31/10/1998 Assistant Professor (University Researcher)

Polytechnic University of Bari, Bari (Italy)

- Scientific responsible for tools and systems in the laboratory Electrical and Electronic Measurements;
- Responsible for activities of research and technology transfer;
- Responsible for teaching lessons for university courses;
- Production of scientific papers.

01/11/1998–30/09/2001 University Associate Professor

Polytechnic University of Bari, Bari (Italy)

- Scientific responsible for laboratory of Electrical and Electronic Measurements;
- Responsible for program activities of research and technology transfer;
- Responsible for founded research projects;
- Responsible for university courses;
- Production of scientific papers.

01/10/2001–Present University Full Professor

Polytechnic University of Bari, Bari (Italy)

- Scientific Responsible for Research Team of Electrical and Electronic Measurements;
- Scientific Responsible for program activities of research and technology transfer;
- Scientific Responsible for founded research projects;
- Responsible for university courses;
- Production of scientific papers.

01/10/2009–
20/04/2022

Dean, Engineering Faculty of Taranto

Polytechnic University of Bari, Bari (Italy)

- Responsible for teaching and research activities at the Faculty of Engineering of Taranto;
- Employer and Safety Officer;
- Responsible for the staff team of technical and administrative people;
- Deputy Rector for the University Taranto site;
- President of the Interdepartmental Center "Magna Grecia".

01/10/2018-30/09/2024

Degree Course Coordinator, Engineering Faculty of Bari

- Coordinator of the Degree Course in Electrical Engineering, Polytechnic University of Bari

EDUCATION AND TRAINING

01/11/1975–12/06/1981

"Laurea" (five-years M'S degree) in Electrical Engineering

110/110 L
("maximum cum laude")

Polytechnic University of Bari, Bari (Italy)

Main subjects:

Physics, Electrical Engineering, Power Systems, Automatics, Systems Theory, Electronics, Electrical and Electronic Measurements, Sensors and Transducers, Electromagnetic Fields, Telecommunications, Information processing systems, Business management.

Thesis title:

"Stability of asynchronous motors supplied with variable frequency"

01/11/1983–31/10/1986

Ph.D in Electrical Engineering

Excellent

Italian Ministry of University and Scientific and Technological Research, Rome (Italy)

Main subjects:

Power systems, Harmonic Pollution, Harmonic Filter Design and Realization, Distorsion an Unbalance Automatic Measurement, Disturbance Compensation, Noisy Signals.

Ph.D Thesis title:

"Analysis and Reduction of Harmonic Content in Electrical Power Systems"

PERSONAL SKILLS

Mother tongue(s) Italian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	B2	C1	B2	C1	C2
French	B2	C1	B2	C1	C2

Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user
Common European Framework of Reference for Languages

- Organisational / managerial skills**
- Responsible for the educational and scientific activities in the field of electrical and electronic measures
 - Responsible for research and technology transfer in the field of electric, electronic and electro-optic technologies
 - Coordinator of the Degree Course in Electrical Engineering, Polytechnic University of Bari
 - Head of the Research Group in Electrical and Electronic Measurements Technical University of Bari - Taranto headquarters
 - President of the Center "Magna Grecia", with training, research and services across the country
 - Responsible for the management of staff and the budget of the Taranto headquarters of the Polytechnic University of Bari

Digital competence

SELF-ASSESSMENT				
Information processing	Communication	Content creation	Safety	Problem solving
Independent user	Proficient user	Proficient user	Independent user	Independent user

Digital competences - Self-assessment grid

- Good command of office suite (Word Processor, Spread sheet, presentation software, etc.);
- Good command of photo editing software;
- Good command of scientific software (Matlab, LabView etc.);
- Software developer and programmer.

ADDITIONAL INFORMATION

See additional information in the attachment, about biographical notes, charges, activities and publications of Prof. Gregorio Andria.

[Related document\(s\):](#) Biographical notes

ANNEXES

- Biographical notes

Biographical notes

BIOGRAPHICAL NOTES OF PROF. GREGORIO ANDRIA – ADDITIONAL INFORMATION

Gregorio Andria was born in Massafra, Apulia, Italy. He obtained his diploma in 1975 at the Liceo Scientifico Statale "D. De Ruggieri" in Massafra, vote 60/60. On April 11th, 1981 he graduated with honors in Electrical Engineering from the State University of Bari, Italy, with the thesis "Stability of asynchronous motors powered at variable frequency", supervisors Profs. Antonio Dell'Aquila, Francesco Torelli, Michele Brucoli.

In 1981 he joined the Department of Electrical and Electronics of the Polytechnic of Bari, collaborating in research works within the local research groups CNR "Electrical and Electronic Measurement" and "Power Systems".

In 1983 he won the competition for the first cycle of the PhD in Electrical Engineering at the University of Bari, undertaking a research in the field of measurements on distorted power systems. Next, in 1987 in Rome, Italy, he received the **Ph.D. degree in Electrical Engineering for Power Systems** from the Italian Ministry of University and Research, with the thesis "New methodologies for measurement and reduction of harmonic contents in electric power systems", supervisors Profs. Mario Savino and Francesco Torelli.

In 1987, he was engaged at the Department of Electrical and Electronic Engineering (DEE) of Polytechnic of Bari as a Research Assistant for the needs of Laboratory of "Measurements on Machines and Electrical Systems". He has been responsible of the Laboratory of Electronic Measurements, as well as head of the Service of Automatic Calculation of DEE. He made also the Commission DEE Development of Automatic Calculation. From 1988 to this day he has always been part of the Council of DEE.

Since 1981 he collaborates with researchers from both DEE and various Italian and foreign universities and has attended a number of national and international congresses and conferences, presenting a considerable number of scientific papers.

He was invited to serve as Chairman in several sessions of "Digital Signal Processing" for International Congresses IEEE IMTC, Metrology for AeroSpace, MeMeA, and IMEKO.

Since 1996 Gregorio Andria collaborates with the Electrical and Electronic Measurements Group (ING- INF/07), Department of Electrical Engineering and Information Technology of Politecnico di Bari, both on scientific and educational activities, firstly as Assistant Professor (1996-1998), then as Associate Professor (1998-2001) and finally as Full Professor (2001 until today), always in the same scientific sector ING-INF/07, with several teaching assignments in the Bachelor / Master / PhD's Degree at the sites of Bari and Taranto.

Charges covered at national and international level

- He has served in the period 2009/2012 as Dean of the II Faculty of Engineering, based in Taranto, Bari Polytechnic, after having been:
 - a) Deputy Dean in the three years 2003/2006, and
 - b) Deputy Director of the Department of Environmental Engineering and Sustainable Development (DIASS) in the three years 2006/2009.
- From 2012 until 2022, he covered the charge of President of the Interdepartmental Center of the Polytechnic of Bari "Magna Grecia", in Taranto, whose members are the Departments of Polytechnic of Bari DEI, DMMM, DICAR, DIF, and DICATECh, respectively. Moreover, he served also as Deputy Rector in all issues concerning the site of Taranto of the Polytechnic of Bari.

- Auditor and member of the editorial board of international journals IEEE Trans. on Instrumentation & Measurement, Measurement Elsevier Journal, Elsevier Signal Processing Journal, The European Physical Journal - Applied Physics.
- Scientific Director of Taranto Unity in the National Executive Council of the Association "Group of Electrical and Electronic Measurement"; he is also a member of the National Commission of Coordination of the same Association.
- Chairman in several international scientific conference organized by the IMEKO and the IEEE Society in the field of the processing of measurement data and electronic instrumentation.
- Director of the PhD School - Excellence Seminar "Italo Gorini" in the 2012-2014 period.
- Member of the Board of Professors of the PhD in Electrical and Information Engineering and in Industry 4.0 of the Polytechnic of Bari.
- Member of the National Commissions for confirmation in the role of university researchers, the Associate Professors and Ordinary for the Scientific-Disciplinary Sector "Electrical and Electronic Measurements".

University Teaching Activities

Prof. Gregorio Andria has played since 1988 as a lecturer teaching as a full professor of the following courses:

- "MEASURING ELECTRONIC INSTRUMENTATION" (Degree in Eng. of Information Tech.);
- "MEASURES AND ELECTRONIC INSTRUMENTATION " (Degree in Eng. of Information Tech.);
- "FOUNDATIONS OF MEASUREMENT AND METROLOGY" (Degrees in Eng. of Industrial Systems and Electronics ", Eng. Information, Eng. Industrial and Eng. For the Environment and Territory);
- "TECHNIQUES AND SYSTEMS OF ENVIRONMENTAL DATA SIZE" (PhD in Eng. for the Environment and Territory);
- "ELECTRIC MEASURES" (Degree in Electrical Engineering);
- "ELECTRONIC INSTRUMENTATION & LAB" (Degree in Eng. of Aerospace Systems);
- "MEASUREMENTS AND TESTING OF MACHINERY AND ELECTRICAL INSTALLATIONS" (Degree in Electrical Eng.);
- "SENSORS AND TRANSDUCERS" (University Diploma in Electronic Engineering);
- "ELECTRIC MEASURES" (University Diploma in Electrical Engineering);
- "RELIABILITY AND QUALITY CONTROL" (University Diploma in Electrical Engineering);
- "FOUNDATIONALS OF MEASUREMENT AND METROLOGY GENERAL ELECTRIC" (University Diploma in Engineering for the Environment and Resources).

Main professional consultancy:

- (2013) Development of the "FEASIBILITY STUDY OF THE ELECTRIFICATION OF THE COMMERCIAL AND INDUSTRIAL DOCKS OF THE PORT OF TARANTO", on behalf of the Production District of the Environment and the Reuse (DIPAR) - Taranto. The assignment was relating to: i) Analysis of both the power lines and the existing systems in the port area, with reference to the power and system components that can be used; ii) Maximum design of the dock electrical system, equipped with the necessary interconnection and conversion equipment requested by the binding ships; iii) Maximum design of any energy production plants from alternative sources; iv) Integration of the designed system with the existing one at the service of the port Authority; v) Analysis of the division into functional lots, capable of being made and managed independently.
- (2013) Member of the Judicial Commission for the evaluation of the tender for the realization of the "Mo.M.P. - MONITORING MAR PICCOLO FOR THE FIGHT AGAINST ENVIRONMENTAL CRIMES WITH THE CREATION OF ADVANCED VIDEO SURVEILLANCE INFRASTRUCTURES" - PON Security 2007-2013, axis 1 - Operational objective 1.3 – "Protect the Environmental Context", on behalf of the Municipality of Taranto.
- (2018) Member of the Judicial Commission for the evaluation of the tender for the assignment of the "VERIFICATION AIMED AT THE VALIDATION OF PROJECTS OF INTERVENTIONS INCLUDED IN THE LL.PP. 2011-13", banned by the Port Authority of Taranto.

- (2018) Appointment as a Technical-Scientific Expert (Referee) for the ex-ante and former post evaluation phases as well as for the determination of the relevance and adequacy of the costs of the "DIASEI - DIAGNOSIS OF FAULTS AND PREDICTIVE MAINTENANCE IN INNOVATIVE ENERGY SYSTEMS", presented in response to the public notice for support for Campania companies in the realization of feasibility studies (phase 1) and technological transfer projects (phase 2) consistent with the RIS 3 Axis 1 O.S. 1.1.
- (2020) Member of the Judicial Commission for the evaluation of the tender for the "OPEN PROCEDURE, PURSUANT TO ART. 36 CO. 2 OF LEGISLATIVE DECREE 50/2016 AND S.M.I., FOR THE ASSIGNMENT OF THE AUDIT SERVICES ON REGULATED ACTIVITIES AND ACCESSORY SERVICES", banned from the Municipal Company Gas S.p.A. - Bari.

Organizing of Scientific Activity

Gregorio Andria contributed to different organizing activities for international conferences and meetings, and also contributes to the scientific community as reviewer.

He was part of the Steering Committee for the annual International Symposium MeMeA (Medical Measurements and Applications) of the IEEE, in the editions from 2011 until today (held in Bari, Budapest, Gatineau, Lisbon, Torino, Minneapolis, Ottawa, Giardini Naxos, respectively).

He was General Chair of the International Conferences IEEE-VECIMS 2007 and MeMeA 2011, held in Ostuni and Bari, respectively.

He was Director of PhD Summer School "Italo Gorini" in the period 2012-2014 and he served as General Chair in the editions 2012 and 2014, held in Bari and Lecce, respectively.

He was General Chair in the national conference GMEE 2012, held in Monopoli.

He is member of the Electric and Electronics Measurement Group (GMEE), and he is Responsible of the Unit of Taranto.

Gregorio Andria acts as reviewer for different international journals: "The European Physical Journal - Applied Physics", "Elsevier Measurement Journal", Elsevier Signal Processing Journal", "IEEE Sensors Journal", "IEEE Trans. on Instrumentation & Measurement", "MDPI Sensors", "Applied Sciences".

Technology Transfer Activity

The Research activity of Gregorio Andria has led to different results in terms of technology transfer, especially for industrial applications. He was also involved in some national and international Research projects.

He was Responsible of Unit of Bari in the PRIN 2002, "Methods for the characterization of digital equipment used in the environmental control", which was funded under the National Research Program. He was also involved in PRIN 1998, 2001, 2003, 2006 and 2008, in the field of the characterization and standardization of digital instrumentation.

He was Scientific Responsible (for Polytechnic of Bari) of the following projects, founded by MIUR and MISE from FESR resources: PON a3_00298 "Magna Grecia" and "DITRIMMIS/RIDITT", in the period 2012-2015.

Research Activity

His main research interests deal with electrical and electronic measurements, regarding the study, design and development of new sensors and instrumentation, for both scientific and industrial applications.

Particularly, he concentrated his research attention in the following topics:

- Intelligent electronic instrumentation for measurements of components and systems;
- Analysis and measurement of deformed electrical quantities, in stationary and / or transient conditions;
- Methods of measurement for the identification of models and for the determination of parameters and characteristics of machines, equipment, apparatus, electric drives;
- Measurement of non-electrical physical quantities through electronic and electro-optical newly developed sensors;
- Environmental and Remote Sensing Measurements;
- Reliability of Measurement and benefits in the statistical quality control devices;
- Measurements and electronic instrumentation in the biomedical field.

His contribution to these researches particularly concerned: a) studying, developing, optimising and characterising of new algorithms for signal analysis; b) conditioning and processing of stationary and transient acquired signals, also for medical applications; c) reliability studying on measurement systems and its spin-off on the quality control.

For each subject Gregorio Andria provided different original contributions, which lead to more than 250 papers published in international journals or conference proceedings, altogether reaching more than 800 citations in scientific journals.

Citation Report (via SCOPUS)

Citations number (May 2025): **2146 in 1774 documents**

Hirsch Index (May 2025): **26**

List of Principal Recent Publications

- 1) G. ANDRIA, F. ATTIVISSIMO, G. GUGLIELMI, A.M.L. LANZOLLA, A. MAIORANA, M. MANGIANTINI: "Towards patient dose optimization in digital radiography", *Measurement*, Vol. 79, 2016, pp. 331-338.
- 2) ANDRIA G, A.M.L. LANZOLLA, G. RUSSO, M. PARABITA, R. ANTONELLI INCALZI, G. CAVALLO, M. BENVENUTO (2015). A novel approach for design and testing digital m-health applications. In: *Proc. of MeMeA 2015*. p. 440-444, Torino, May 7-9, 2015
- 3) ANDRIA G, A.M.L. LANZOLLA, G. RUSSO, M. PARABITA, R. ANTONELLI INCALZI, G. CAVALLO, M. BENVENUTO (2015). An innovative measurement system based on MEMs for telerehabilitation. In: *Proc. of MeMeA 2015*. p. 436-439, Torino, May 7-9, 2015
- 4) G. ANDRIA, ATTIVISSIMO F, A. DI NISIO, A.M.L. LANZOLLA, A. PELLEGRINO (2015). Design and Implementation of Automotive Data Acquisition Platform. In: *Proc. of I2MTC/15 International Instr. & Meas.* p. 272-276, ISBN: 978-1-4799-6113-9, Pisa, May 11-14, 2015
- 5) ANDRIA G, ATTIVISSIMO F, LANZOLLA A, GUGLIELMI G, FRANCAVILLA M (2014). Assessment of imaging performance in digital radiographic sy. In: *MeMeA 2014*. Lisbon, Portugal, June 11 - 12, 2014
- 6) G. ANDRIA, F. ATTIVISSIMO, G. CAVONE, LANZOLLA A, M. SPADAVECCHIA (2014). Environmental Impact of the marine transport in Port of Taranto. In: *Proc. of Imeko TC19 Symposium on Environmental Instrumentation and Measurements*. p. 16-19, Chemitz, September 23-24, 2014
- 7) G. ANDRIA, ATTIVISSIMO F, A. M. L. LANZOLLA, G. GUGLIELMI, M. FRANCAVILLA (2014). Quality assessment in radiographic images. In: *III Imeko TC 13 Symposium, New Frontiers in Biomedical Measurements*. ISBN: 978-92-990073-4-1, Lecce, April 17-18
- 8) G. ANDRIA, F. ATTIVISSIMO, A. DI NISIO, LANZOLLA A, G. GUGLIELMI, R. TERLIZZI (2014). Dose Optimization in Chest Radiography: System and Model Characterization via Experimental Investigation. *IEEE TRANSACTIONS ON INSTRUMENTATION AND MEASUREMENT*, vol. 63, p. 1163-1170, ISSN: 0018-9456, doi: 10.1109/TIM.2013.2282411
- 9) ADAMO F, ANDRIA G, CAVONE G, DE CAPUA C, LANZOLLA A M L, MORELLO R, SPADAVECCHIA M (2014). Estimation of ship emissions in the port of Taranto. *MEASUREMENT*, vol. 47, p. 982-988, ISSN: 0263-2241, doi: 10.1016/j.measurement.2013.09.012

- 10) Gregorio Andria, Filippo Attivissimo, Attilio Di Nisio, Anna Lanzolla, Mattia Ragolia (2020). Assessment of Position Repeatability Error in an Electromagnetic Tracking System for Surgical Navigation. SENSORS, vol. 20, 961, ISSN: 1424-8220, doi: 10.3390/s20040961
- 11) G. Andria, F. Attivissimo, A. Di Nisio, Trotta A., S. M. Camporeale, P. Pappalardi (2019). Design of a Microwave Sensor for Measurement of Water in Fuel Contamination. MEASUREMENT, vol. 136, p. 74-81, ISSN: 0263-2241, doi: 10.1016/j.measurement.2018.12.076
- 12) Gregorio Andria, Filippo Attivissimo, Attilio Di Nisio, Anna Maria Lucia Lanzolla, Pietro Larizza, Sergio Selicato (2019). Development and performance evaluation of an electromagnetic tracking system for surgery navigation. MEASUREMENT, vol. 148, p. 1-7, ISSN: 0263-2241, doi: 10.1016/j.measurement.2019.106916
- 13) G. ANDRIA, V. PELILLO, L. PIPER, A. LAY-EKUAKILLE, LANZOLLA A, R. MORELLO (2014). Geostatistical approach for validating contaminated soil measurements. MEASUREMENT, vol. 47, p. 1016-1023, ISSN: 0263-2241, doi: 10.1016/j.measurement.2013.09.016
- 14) ADAMO F, ANDRIA G, DI NISIO A, GIAQUINTO N, SCARANO V L, SPADAVECCHIA M (2014). Wideband measurement method for prognosis of soldering failure on electronic boards. In: Proc. of IEEE International Instrumentation and Measurement Technology Conference (I2MTC), May 2014. Montevideo, Uruguay, May 12-15, 2014, doi: 10.1109/I2MTC.2014.6860831
- 15) ANDRIA G, F. ATTIVISSIMO, A.M.L. LANZOLLA, M. SAVINO (2013). A Suitable Threshold for Speckle Reduction in Ultrasound Images. IEEE TRANSACTIONS ON INSTRUMENTATION AND MEASUREMENT, p. 2270-2279, ISSN: 0018-9456, doi: 10.1109/TIM.2013.2255978
- 16) F. ADAMO, G. ANDRIA, F. ATTIVISSIMO, LANZOLLA A, M. SPADAVECCHIA (2013). A comparative study on mother wavelet selection in ultrasound image denoising. MEASUREMENT, vol. 46, p. 2247-2456, ISSN: 0263-2241
- 17) ANDRIA G, CAVONE G, SAVINO M, SCARANO V.L. (2013). A proposal for a flexible and scalable system for environmental measurement network. In: Proceedings - M and N 2013: 2013 IEEE International Workshop on Measurements and Networking. p. 117-120, Napoli, 7-8 ottobre 2013
- 18) F. ADAMO, G. ANDRIA, O. LOSITO, MESCIA L, F. PRUDENZANO, V. L. SCARANO (2013). Development of a Flexible and Scalable Measurement System for EM Pollution Monitoring. In: Proceedings of the 12th IMEKO TC10 Workshop on Technical Diagnostics: New Perspective in Measurements, Tools and Techniques for Industrial Applications. p. 232-235
- 19) G. ANDRIA, ATTIVISSIMO F, A. DI NISIO, G. GUGLIELMI, A. M. L. LANZOLLA, R. TERLIZZI (2013). Diagnostic radiography: an experimental study for estimation of optimal patient dose. In: INSTRUMENTATION AND MEASUREMENT FOR LIFE, p. 11-15
- 20) G. ANDRIA, F. ATTIVISSIMO, A. M. L. LANZOLLA (2013). A statistical approach for MR and CT images comparison. MEASUREMENT, p. 57-65, ISSN: 0263-2241
- 21) G. ANDRIA, ATTIVISSIMO F, G. CAVONE, A. M. L. LANZOLLA (2013). Selection of wavelet functions and thresholding parameters in ultrasound image denoising. In: MeMeA 2013 - IEEE International Symposium on Medical Measurements and Applications, Proceedings. Gatineau, May 4-5, 2013
- 22) ANDRIA G., ATTIVISSIMO F., CAVONE G., DI NISIO A, SPADAVECCHIA M. (2013). Toward a new smart metering paradigm for microgrid. In: 2013 IEEE International Workshop on Measurements and Networking Proceedings (M N). p. 79-82
- 23) ANDRIA G, ATTIVISSIMO F, CAVONE G, GIAQUINTO N, LANZOLLA A. M. L (2012). Linear Filtering of 2-D wavelet coefficients for denoising ultrasound medical images. MEASUREMENT, vol. 45, p. 1792-1800, ISSN: 0263-2241, doi: 10.1016/j.measurement.2012.04.005
- 24) CATALDO A, CANNAZZA G, GIAQUINTO N, TROTTA A, ANDRIA G (2012). Microwave TDR for real-time control of intravenous drip infusions. IEEE TRANSACTIONS ON INSTRUMENTATION AND MEASUREMENT, vol. 61, p. 1866-1873, ISSN: 0018-9456, doi:10.1109/TIM.2012.2192346
- 25) ANDRIA G, ATTIVISSIMO F, LANZOLLA A (2012). Performance of Wavelet Function in Ultrasound Image Denoising. In: Proc. of MeMeA 2012. p. 145-148, ISBN: 978-1-4673-0880-9, Budapest, May 18-19, 2012, doi: 10.1109/MeMeA.2012.6226667
- 26) G. ANDRIA, ATTIVISSIMO F, A. M. L. LANZOLLA, M. SAVINO (2012). Wavelet Based Methods for Speckle Reduction in Ultrasound Images. In: Proc. of I2MTC/12 International Instr. & Meas. Techn.Conf. p. 1722-1725
- 27) A. CATALDO, G. CANNAZZA, N. GIAQUINTO, A. TROTTA, ANDRIA G (2011). Development of a remote system for real-time control of intravenous drip infusions. In: Proc. of IEEE Int. Symp. on Medical Measurements and Applications (MeMeA).

- 28) G. ANDRIA, F. ATTIVISSIMO, G. CAVONE, N. GIAQUINTO, LANZOLLA A (2011). Improving B-Mode Ultrasound Medical Images. In: Proceedings of 2011 IEEE Instrumentation and Measurement Technology Conference (I2MTC). p. 1704-1708
- 29) G. ANDRIA, ATTIVISSIMO F, A. M. L. LANZOLLA, T. MAGLI (2011). A New Method to Compare Image Quality in CT and MRI Images. In: Proc. of IEEE Int. Symp. on Medical Measurement and Applications (MeMeA 2011), Bari, May 30-31, 2011, p. 230-233
- 30) ANDRIA G., ATTIVISSIMO F., GIAQUINTO N, LANZOLLA A.M.L. (2010). A New Technique to Improve the Quality of Medical Images. In: Proc. of the IMEKO TC4 Technical Committee of Measurement of Electrical Quantities. p. 1-5, ISBN: 978-80-553-0424-3, Kosice, Slovakia, 8-10 September 2010
- 31) ANDRIA G, G. CAVONE, L. FABBIANO, N. GIAQUINTO, M. SAVINO (2009). Automatic calibration system for digital instruments without built-in communication interface. In: Proc. of IMEKO World Congress. Lisbona, Portogallo, Sep. 6–11, 2009, ISBN: 9789638841001
- 32) ANDRIA G, F. ATTIVISSIMO, G. CAVONE, A.M.L. LANZOLLA (2009). Denoising Filter to Improve the Quality of CT Images. In: I2MTC 2009 Instr. & Meas. Techn.Conf. ISBN: 9781424433537, Singapore, May 5-7, 2009
- 33) ANDRIA G, F. ATTIVISSIMO, G. CAVONE, A.M.L. LANZOLLA (2009). Acquisition Times in Magnetic Resonance Imaging: Optimization in Clinical Use. IEEE TRANSACTIONS ON INSTRUMENTATION AND MEASUREMENT, vol. 58, p. 3140-3148, ISSN: 0018-9456
- 34) ANDRIA G, F ATTIVISSIMO, N GIAQUINTO, A.M.L. LANZOLLA, N SASANELLI (2008). Best Matches Procedures in Transition Phase Identification for Handgrip Test Analysis in Normal and Pathological Subjects. IEEE TRANSACTIONS ON INSTRUMENTATION AND MEASUREMENT, vol. 57, p. 1086-1093, ISSN: 0018-9456
- 35) ANDRIA G, A. M.L. LANZOLLA, F. PICCININNI, G. S. VIRK (2008). Design and Characterization of Solar Assisted Heating Plant in Domestic Houses. IEEE TRANSACTIONS ON INSTRUMENTATION AND MEASUREMENT, vol. 57, p. 2711-2719, ISSN: 0018-9456
- 36) G. ANDRIA, G. CAVONE, A. M. L. LANZOLLA (2008). Modelling Study for Assessment and Forecasting Variation in Urban Air Pollution". MEASUREMENT, vol. 41, p. 222-229, ISSN:0263-2241
- 37) ANDRIA G, A. BACCIGALUPI, M.BORSIC, P. CARBONE, P. DAPONTE, C. DE CAPUA, A. FERRERO, D. GRIMALDI, N. LOCCI, A. M. L. LANZOLLA, D. MACII, C. MUSCAS, L. PERETTO, D. PETRI, S. RAPUANO, M. RICCIO, S. SALICONE, F. STEFAN (2007). Remote Didactic Laboratory "G. Savastano: the Italian Experience for the E-learning at the Technical Universities in the Field of the Electrical and Electronics Measurements, Overview on Didactic Experiments. IEEE TRANSACTIONS ON INSTRUMENTATION AND MEASUREMENT, vol. 56, p. 1135-1147, ISSN: 0018-9456, doi:10.1109/TIM.2007.899995
- 38) ANDRIA G, A. BACCIGALUPI, M.BORSIC, P. CARBONE, P. DAPONTE, C. DE CAPUA, A. FERRERO, D. GRIMALDI, N. LOCCI, A. M. L. LANZOLLA, D. MACII, C. MUSCAS, L. PERETTO, D. PETRI, S. RAPUANO, M. RICCIO, S. SALICONE, F. STEFAN, REMOTE DIDACTIC LABORATORY G. SAVASTANO (2007). Remote Didactic Laboratory "G. Savastano: the Italian Experience for the E-learning at the Technical Universities in the Field of the Electrical and Electronics Measurements, Architecture and Optimization of the Communication Performance Based on Thin Client Technology. IEEE TRANSACTIONS ON INSTRUMENTATION AND MEASUREMENT, vol. 56, p. 1124-1134, ISSN: 0018-9456
- 39) G. ANDRIA, F. ATTIVISSIMO, N. GIAQUINTO, A.M.L. LANZOLLA, L. QUAGLIARELLA, N. SASANELLI (2006). Functional Evaluation of Handgrip Signals for Parkinsonian Patients. IEEE TRANSACTIONS ON INSTRUMENTATION AND MEASUREMENT, vol. 55, p. 1467-1472, ISSN: 0018-9456
- 40) G. ANDRIA, G. CAVONE, V. DI LECCE, A. LANZOLLA (2005). Model Characterization in Measurement Environmental Pollutants via Data Correlation of Sensor Outputs. IEEE TRANSACTIONS ON INSTRUMENTATION AND MEASUREMENT, vol. 54, p. 1061-1066, ISSN: 0018-9456
- 41) F. ADAMO, G. ANDRIA, F. ATTIVISSIMO, N. GIAQUINTO, M. SAVINO: An Acoustic Method for Soil Moisture Measurement, IEEE Trans. on Instrum. & Measurement, vol. 53, August 2004, pp. 891-898
- 42) F. ADAMO, G. ANDRIA, F.ATTIVISSIMO, N.GIAQUINTO: Linearization of A/D Converters by dither and Chebyshev Polynomials, MEASUREMENT Journal, vol. 33, March 2004
- 43) G. ANDRIA, F.ATTIVISSIMO, N.GIAQUINTO: Digital Signal Processing Techniques for Accurate Electronic Sensor Measurement, MEASUREMENT, Vol.25, 2001
- 44) G. ANDRIA, F.ATTIVISSIMO, G.CAVONE, N.GIAQUINTO, A.TROTТА: Black-Box Identification of Digital Waveform Recorders, COMPUTER STANDARD AND INTERFACES, vol.22, n.4, October 2000, pp.245-252

- 45) G. ANDRIA, A. LAY EKUAKILLE e altri: Study on the acceptability of the GPS data and their processing, Proceedings of the 4th National Congress ASITA 2000, Genova, 5 October 2000
- 46) G. ANDRIA, A. LAY EKUAKILLE, M. NOTARNICOLA: Mathematical models for atmospheric and industrial pollutant prediction, Proc. of XVI IMEKO World Congress, Vienna, 24-28 September 2000
- 47) G. ANDRIA, A. LAY EKUAKILLE, M. SAVINO: Gaussian model for predictive measurements of industrial air pollutants, Proceedings of the National Congress GMEE 2000, Perugia, 14-16 September 2000
- 48) G. ANDRIA, A. LAY EKUAKILLE, M. SAVINO: Processing of the mapping of air pollution measurements, Proceedings of the National Congress GMEE 2000, Perugia, 14-16 September 2000
- 49) G. ANDRIA, A. LAY EKUAKILLE, M. SAVINO e altri: Evaluation index of measurement uncertainty in a GPS system, Proceedings of the National Congress GMEE 2000, Perugia, 14-16 September 2000
- 50) G. ANDRIA, A. LAY EKUAKILLE, M. SAVINO, F. TRALLI: Filtering techniques for the evaluation of uncertainty in the photo-interpretation of images ERS-2/SAR, Proceedings of the National Congress GMEE 2000, Perugia, 14-16 September 2000
- 51) G. ANDRIA, F. ATTIVISSIMO, N. GIAQUINTO, M. SAVINO: Characterization of level measurements via TFR, Proceedings of the National Congress GMEE 2000, Perugia, 14-16 September 2000
- 52) G. ANDRIA, A. D'ORAZIO, A. LAY EKUAKILLE, M. NOTARNICOLA: Modeling Study in Remote Sensing of Air Pollution Measured Data, Proc. of IEEE Instrumentation and Measurement Technology Conf. - IMTC 2000, Baltimore, MD, USA, 1-4 May 2000
- 53) G. ANDRIA, A. D'ORAZIO, A. LAY EKUAKILLE, M. MORETTI, P. PIERI, F. TRALLI, M. TROPEANO: Accuracy Assessment in Photo Interpretation of Remote Sensing ERS-2/SAR Images, Proc. of IEEE Instrumentation and Measurement Technology Conf. - IMTC 2000, Baltimore, MD, USA, 1-4 May 2000
- 54) G. ANDRIA, M. BRAMBILLA, V. DI LECCE, L. LIBERTI, M. NOTARNICOLA, V. ROMANO: Gaseous pollutant monitoring by non linear mode switching in a laser sensor: feasibility and characterization, Proc. of 4th Int. Congr. on "Energy, Environment and Technological Innovation" - EET'99, Roma, 20-24 September 1999
- 55) G. ANDRIA, F. ATTIVISSIMO, N. GIAQUINTO, M. SAVINO, A. TROTTA: Improvement of test methods for the characterization of digital oscilloscopes, Proceedings of the National Congress GMEE '99, Catania, 16-18 September 1999
- 56) G. ANDRIA, F. ATTIVISSIMO, M. SAVINO: Characterization of digital instrumentation for time-frequency analysis, Proceedings of the National Congress GMEE '99, Catania, 16-18 September 1999
- 57) G. ANDRIA, A. LAY EKUAKILLE et alii: Measures from acoustic soundings for weather forecasts: data analysis using autoregressive moving-average processes, Proceedings of the National Congress GMEE '99, Catania, 16-18 September 1999
- 58) G. ANDRIA, F. ATTIVISSIMO, N. GIAQUINTO, M. SAVINO: Digital techniques for measurements of ultrasonic sensors, Proceedings of the National Congress GMEE '99, Catania, 16-18 settembre 1999
- 59) G. ANDRIA, A. LAY EKUAKILLE e altri: Processing of radiometric data for remote sensing: error reduction with a priori statistical method, Proceedings of the National Congress GMEE '99, Catania, 16-18 September 1999
- 60) G. ANDRIA, A. LAY EKUAKILLE et alii: Dynamic characterization of a laser sensor for the identification of atmospheric pollutants, Proceedings of the National Congress GMEE '99, Catania, 16-18 September 1999
- 61) G. ANDRIA, A. LAY EKUAKILLE, V. DI LECCE: Advanced interfaces for measurement instrumentation of interdependent parameters, Proceedings of the National Congress GMEE '99, Catania, 16-18 settembre 1999
- 62) G. ANDRIA, F. ATTIVISSIMO, G. CAVONE, N. GIAQUINTO, M. SAVINO, A. TROTTA: Ideas for a Standard on model identification of digital waveform recorders, Proc. of 4th Workshop on ADC Modelling and Testing, Bordeaux, France, 9-10 September 1999
- 63) G. ANDRIA, F. ATTIVISSIMO, N. GIAQUINTO, M. SAVINO: Digital techniques for high-accuracy measurements on noisy distorted signals, Proc. of XV IMEKO World Congress, Osaka, Japan, 13-18 June 1999
- 64) G. ANDRIA, F. ATTIVISSIMO, N. GIAQUINTO, M. SAVINO: Algorithms to improve the measurement accuracy in ultrasonic level sensor applications, Proc. of XV IMEKO World Congress, Osaka, Japan, 13-18 June 1999

- 65) G. ANDRIA, F.ATTIVISSIMO, N. GIAQUINTO: Digital methods for very accurate ultrasonic sensor measurement, Proc. of IMTC/99 - IEEE Instrumentation & Measurement Technology Conference, Venezia, Italy, 24-26 May 1999
- 66) G. ANDRIA, F.ATTIVISSIMO, M.SAVINO: Wavelet-based techniques for high-accuracy measurements on ultrasonic sensor, Proc. of 10th Symposium IMEKO TC-4, Naples, Italy, 17-18 September 1998
- 67) G. ANDRIA, F.ATTIVISSIMO, A.LANZOLLA, M.SAVINO: Digital techniques for processing of measurement signals in the ultrasonic sensors, Proceedings of the National Congress GMEE '98, Napoli, 16 September 1998
- 68) G. ANDRIA, M. BRAMBILLA, V. DI LECCE, L.LIBERTI, M. NOTARNICOLA, V. ROMANO: Development of monitoring of specific air pollutants by Laser-Mode-Switching, Proceedings of the National Congress GMEE '98, Napoli, 16 September 1998
- 69) G. ANDRIA, F.ATTIVISSIMO, A.LANZOLLA: Characterization of a digital instrument for measurements on non-stationary noisy signals, Proceedings of the National Congress GMEE '98, Napoli, 16 September 1998
- 70) G. ANDRIA, F.ATTIVISSIMO, A. LANZOLLA: Digital measuring techniques for high accuracy ultrasonic sensor application, Proc. of IMTC/98 - IEEE Instrumentation & Measurement Technology Conference, St. Paul, Minnesota, USA, 18-21 May 1998, pp.1056-1061
- 71) G. ANDRIA, M. BRAMBILLA, V. DI LECCE, L.LIBERTI, M. NOTARNICOLA, V. ROMANO: New methodology for the monitoring of specific air pollutants by Laser-Mode-Switching, Proceedings of the 5th Nat. Conf. "Electro-optical Instrumentation and Methods of Measurement" - Elettroottica '98, Matera, 12-14 May 1998, pp.351-355
- 72) G. ANDRIA, F.ATTIVISSIMO, A. LANZOLLA, M. SAVINO: Measurement-accuracy analysis for noisy nonstationary signals, Proc. of 9th Symposium IMEKO TC-4 on "Electrical Instruments in Industry", Glasgow, 8-9 September 1997, pp.133-136
- 73) G. ANDRIA, F. ATTIVISSIMO, A. LANZOLLA: Characterization of digital algorithms based on the interpolated FFT for measurements on non-stationary signals, Proceedings of the National Congress GMEE '97, Como, 17-19 June 1997, pp.99-102
- 74) G. ANDRIA, F. ATTIVISSIMO, M. SAVINO: Interpolation of SPWD and its characterization for instantaneous frequency and amplitude measurements, Proceedings of the National Congress GMEE '97, Como, 17-19 June 1997, pp.103-106
- 75) G. ANDRIA, V. DI LECCE: The interface in the virtual measurement systems, Proceedings of the National Congress GMEE '97, Como, 17-19 June 1997, pp.161-164
- 76) G. ANDRIA, A. LANZOLLA: Ultrasound sensor for measuring a fluid level, Proceedings of the National Congress GMEE '97, Como, 17-19 June 1997, pp.277-280
- 77) G. ANDRIA, F. ATTIVISSIMO: Optimal characterization of time-frequency measurements on distorted nonstationary signals, Proc. of XIV IMEKO World Congress, Tampere, Finlandia, 1-6 June 1997, pp.115-120
- 78) G. ANDRIA, F.ATTIVISSIMO: Spectral interpolation algorithms for measurement of non-stationary signals, L'ENERGIA ELETTRICA., vol.LXXIV, n.3, May 1997, pp.189-199
- 79) G. ANDRIA, F.ATTIVISSIMO, A.LANZOLLA: Interpolation techniques for nonstationary signal analysis, MEASUREMENT, Vol.21, n.1-2, January 1997, pp. 1-16
- 80) G. ANDRIA, F. ATTIVISSIMO, M. SAVINO: Instantaneous-Power Measurement in Time-Frequency Domain, ETEP, Vol.6, n.5, September 1996, pp.351-356
- 81) G. ANDRIA, F. ATTIVISSIMO, M. SAVINO: Virtual instrumentation for the analysis of current components in distorted, asymmetrical and unbalanced three-phase systems, Proceedings of the National Congress GMEE '96, S.Cesarea Terme (LE), 26-28 September 1996, pp.341-344
- 82) G. ANDRIA, F. ATTIVISSIMO, A. LANZOLLA: Characterization and reduction of bias in STFT-based measurements of non-stationary signals, Proceedings of the National Congress GMEE '96, S.Cesarea Terme (LE), 26-28 September 1996, pp.115-118
- 83) G. ANDRIA, F. ATTIVISSIMO: Study of the influence of the noise in the measurements via PWD of frequency and instantaneous amplitude of transient signals, Proceedings of the National Congress GMEE '96, S.Cesarea Terme (LE), 26-28 September 1996, pp.99-102
- 84) G. ANDRIA, F. ATTIVISSIMO, M.SAVINO: High-accuracy measurements on noisy nonstationary signals via interpolated STFT, Proc. of IMEKO TC-4 Symposium, Budapest, Ungheria, 16-17 September 1996, pp.202-205

- 85) G. ANDRIA, M. SAVINO: Interpolated Smoothed Pseudo Wigner-Ville Distribution to Perform Accurate Spectral Analyses, IEEE TRANS. ON INSTRUMENTATION AND MEASUREMENT, Vol.45, n.4, August 1996, pp.818-823
- 86) G. ANDRIA, V. DI LECCE, M.SAVINO: Application of the AFT technique for low-cost and accurate measurements, Proc. of MELECON '96, Bari, 13-16 May 1996, pp.1347-1350
- 87) G. ANDRIA, F. ATTIVISSIMO, G.CAVONE, A. LANZOLLA: Instantaneous-frequency measurement for noisy nonstationary distorted signals, Proc. of MELECON '96, Bari, 13-16 May 1996, pp.1339-1342
- 88) G. ANDRIA, F. ATTIVISSIMO: Interpolation of time-frequency distributions of nonstationary magnitude measurements, Proceedings of the National Congress GMEE '95, Bologna, 21-23 September 1995, pp.57-62
- 89) G. ANDRIA, F. ATTIVISSIMO, M. SAVINO: New techniques for measuring instantaneous power in the joint time-frequency domain, Proceedings of the National Congress GMEE '95, Bologna, 21-23 September 1995, pp.333-335
- 90) G. ANDRIA, N. GIAQUINTO, M. SAVINO: Optical sensors for robotics: a new method of calibration, Proceedings of the National Congress GMEE '95, Bologna, 21-23 September 1995, pp.379-381
- 91) G. ANDRIA, G.A. PARTIPILO: Optimised windowing procedures oriented to SPWD-based measurements, Proc. of IMEKO TC-4 7th International Symposium on 'Modern Electrical and Magnetic Measurement', Praga, Repubblica Ceca, 13-14 September 1995, pp.225-229
- 92) G. ANDRIA, G. CAVONE, M. SAVINO: Power Measurements in Non-Sinusoidal Conditions: Methodologies and Applications, Proc. of XIII IMEKO World Congress "From measurement to innovation", Torino, 5-9 September 1994, pp.679-684
- 93) G. ANDRIA, N. SABIA: Design and Characterization of an SPWD-Based Virtual Instrument, Proc. of XIII IMEKO World Congress, Torino, 5-9 September 1994, pp.523-528
- 94) G. ANDRIA, G.CAVONE, M.SAVINO: Definition and measurement of electrical quantities in power systems with deformed waves, L'ENERGIA ELETTRICA vol.LXXI, n.4, July 1994, pp.39-53
- 95) G. ANDRIA, V.PETRUZZELLI, F.PRUDENZANO, M.SAVINO: A new method of calibration for integrated optical sensors, Proceedings of the 2nd Nat. Conf. "Electro-optical Instrumentation and Methods of Measurement" - Elettroottica '94, Pavia, 25-27 May 1994, pp.119-123
- 96) G. ANDRIA, N. SABIA, M. SAVINO: An SPWD-Based Instrument for Accurate Spectral Analyses, Proc. of IMTC/94 - IEEE Instrumentation & Measurement Technology Conference, Hamamatsu, Giappone, 10-12 May 1994, pp.725-728
- 97) G.ANDRIA, M.SAVINO, A.TROTТА: Application of Wigner-Ville Distribution to Measurements on Transient Signals, IEEE TRANS. ON INSTRUMENTATION AND MEASUREMENT, Vol.43, n.2, April 1994, pp.187-193
- 98) G.ANDRIA, M.SAVINO, A.TROTТА: FFT-Based Algorithms Oriented to Measurements on Multifrequency Signals, MEASUREMENT, Vol.12, n.1, October 1993, pp. 25-42
- 99) G. ANDRIA, A. D'ORAZIO, V. PETRUZZELLI, M. SAVINO: Integrated-optical sensor for quality control purposes, Proceedings of the 94th Nat. Meeting, Ancona, 3-6 October 1993, Vol.2B, pp.219-234
- 100) G. ANDRIA, M. BOZZETTI, A. D'ORAZIO, V. PETRUZZELLI, F. PRUDENZANO, M. SAVINO: Design and Characterization of a Ti:LiNbO3 Stress Sensor Taking Account of Temperature Influence, Proc. of ISMCR '93 - 3rd Int. Symp. on Measurement and Control in Robotics, Torino, 21-24 September 1993, Sess. Bs.III, pp.7-12
- 101) G. ANDRIA, G. CAVONE, M. SAVINO, A. TROTТА: Deformed-Wave Electrical Systems: Definitions and Measurement of Electrical Parameters, Proceedings of the National Congress GMEE '93, Brescia, 16-18 September 1993, pp.131-142
- 102) G. ANDRIA, F. ATTIVISSIMO, N. GIAQUINTO, M. SAVINO, A. TROTТА: Digital-processing techniques for the improvement of measurement digital instrumentation performance, Proceedings of the National Congress GMEE '93, Brescia, 16-18 September 1993, pp.213-225
- 103) G. ANDRIA, D. DE VENUTO, M. SAVINO, A. TROTТА: Application of DSP to the industrial diagnostics, Proceedings of the National Congress GMEE '93, Brescia, 16-18 September 1993, pp.319-321
- 104) G. ANDRIA, M. DE SARIO, A. D'ORAZIO, V. PETRUZZELLI, F. PRUDENZANO, M. SAVINO: Integrated optical sensors for Robotics, Proceedings of the National Congress GMEE '93, Brescia, 16-18 September 1993, pp.429-431
- 105) G.ANDRIA, M.SAVINO, A.TROTТА: A Multitasking VIs-Based Intelligent Instrument to Perform Specialized On-Site Measurements, Proc. of IMEKO TC4, Bruxelles, 12-13 May 1993, pp.13-20

- 106) G.ANDRIA, L.SALVATORE, M.SAVINO, A.TROTТА: Measurements of Power and Current Components in Unbalanced and Distorted Three-Phase Systems, ETEP, Vol.3, n.1, January 1993, pp.75-83
- 107) G.ANDRIA, M.SAVINO, A.TROTТА: Optimized Windows for FIR Filter Design to Perform Maximally Flat Decimation Stages in Signal Conditioning, IEEE TRANS. ON INSTRUMENTATION AND MEASUREMENT, Vol.41, n.3, July 1992, pp.407-412
- 108) G. ANDRIA, A. D'ORAZIO, M. DE SARIO, V. PETRUZZELLI, M. SAVINO: Development of Integrated Optical sensors in the Automatic Instrumentation, Proceedings of the 2nd Nat. Conf. "Electro-optical Instrumentation and Methods of Measurement" - Elettroottica '92, Firenze, 25-27 May 1992, pp.329-332
- 109) G.ANDRIA, L.SALVATORE, M.SAVINO, A.TROTТА: Techniques for Identification of Harmonics in Industrial Power Systems, Proc. of IMTC/92 on "Instrumentation & Measurement Technologies", New York (U.S.A.), 12-14 May 1992, pp.114-119
- 110) G.ANDRIA, M.SAVINO, A.TROTТА: Filtering Techniques to Improve the Design of Low-Frequency Digital Instrumentation, Proc. of IMEKO TC4, Vienna (Austria), 8-10 April 1992
- 111) G.ANDRIA, M.DE SARIO, A.D'ORAZIO, V.PETRUZZELLI, M.SAVINO: Ti:LiNbO3 Optical Waveguide Pressure/Force Sensor for Measurements in Robotic Applications, Low Cost Automation Techniques, Components and Instruments Applications - IFAC Series, Oxford, UK, Pergamon Press, 1991, pp.291-296
- 112) G.ANDRIA, M.SAVINO, A.TROTТА: Comparison of Windowing Algorithms for Very Accurate Measurements, Proc. of IMEKO TC7 Int. Symp. on "Artificial Intelligence Based Measurement and Control", Kyoto (Giappone), 12-14 September 1991, Vol.1, pp.211-216
- 113) G. ANDRIA, A. d'ALESSANDRO, A. D'ORAZIO, M. DE SARIO, V. PETRUZZELLI, M. SAVINO: Integrated Optical Sensors in Measurement and Control, Proc. of IMEKO TC7 Int. Symp. on "Artificial Intelligence Based Measurement and Control", Kyoto (Giappone), 12-14 September 1991, Vol.1, pp.149-154
- 114) G.ANDRIA, L.SALVATORE, M.SAVINO, A.TROTТА: Application of New Measurement Techniques to PWM Waveforms, Proc. of 4th European Confer. on Power Electronics and Applications-EPE '91, Firenze, 3-6 September 1991, Vol.3, pp.355-361
- 115) G.ANDRIA, M.DE SARIO, A.D'ORAZIO, V.PETRUZZELLI, M.SAVINO: Ti:LiNbO3 Integrated Optical Sensor for Temperature Measurements and Control in Robotic Drives, Proc. of 12th Triennial World Congress IMEKO XII, Beijing (Cina), 5-10 September 1991, pp.1261-1266
- 116) G.ANDRIA, L.SALVATORE, M.SAVINO, A.TROTТА: Algorithms for Processing Signals of Inverter-Fed Drives, Proc. of 12th Triennial World Congress IMEKO XII, Beijing (Cina), 5-10 September 1991, pp.1157-1162
- 117) G.ANDRIA, M.SAVINO, A.TROTТА: Design of New Optimized Windows for Frequency Analysis of Signals, L'ENERGIA ELETTRICA, vol.LXVIII, n.5, May 1991, pp.207-216
- 118) G.ANDRIA *et alii*: Design of Optical Sensors for Measurement and Control Applications, Proc. of 2nd Nat. Conf. Project Finalized "Robotica" - C.N.R., Milano, 27-28 May 1991, pp.246-261
- 119) G.ANDRIA, M.SAVINO, A.TROTТА: Intelligent Electrical Measurements in Frequency Domain, Proc. of MEKO TC4 4th Int. Symp. on "Intelligent Measurement of Electrical and Magnetic Quantities", Varna (Bulgaria), 15-17 November 1990, pp.193-199
- 120) G. ANDRIA, A. d'ALESSANDRO, A. D'ORAZIO, M. DE SARIO, V. PETRUZZELLI, M. SAVINO: Design of a Microshiftings Sensor Waveguide, Proceedings of the 1st Nat. Conf. "Electro-optical Instrumentation and Methods of Measurement" - Elettroottica '90, Milano-Segrate, 16-18 October 1990, pp.93-97
- 121) G.ANDRIA, L.SALVATORE: Inverter Drive Signal Processing via DFT and EKF, IEE PROCEEDINGS, Vol.137, Pt.B, n.2, March 1990, pp.111-119
- 122) G.ANDRIA, L.SALVATORE: Digital Processing for Electric Drives Signals using the Kalman Filter, L'ENERGIA ELETTRICA, vol.LXVI, n.12, December 1989, pp.589-600
- 123) G.ANDRIA, M.SAVINO, A.TROTТА: Design and Characterization of an Intelligent Instrument Based on the Analysis Harmonic, Proceedings of the Annual Meeting XC A.E.I., Lecce, memory I-1-7, 8-11 October 1989
- 124) G.ANDRIA, L.SALVATORE, M.SAVINO, A.TROTТА: Developments in Measurements on Inverter Drives, Proc. of IMEKO TC4 3rd Int. Symp. on Measurement in Electrical and Electronic Power Systems, Zurich, Suisse, 20-22 September 1989, pp.163-171

- 125) G.ANDRIA, A.DELL'AQUILA, L.SALVATORE, M.SAVINO: PWM Waveform Processing by Kalman Filter, Proc. of IMEKO TC4 3rd Int. Symp. on Measurement in Electrical and Electronic Power Systems, Zurich, Suisse, 20-22 September 1989, pp.289-297
- 126) G.ANDRIA, M.SAVINO, A.TROTТА: Windows and Interpolation Algorithms to Improve Electrical Measurement Accuracy, IEEE TRANS. ON INSTRUMENTATION AND MEASUREMENT, Vol.38, n.4, August 1989, pp.856-863
- 127) G.ANDRIA, M.DE SARIO, A.D'ORAZIO, V.PETRUZZELLI, M.SAVINO: Force/Pressure Measurement Using Optical Interference Sensor Made via Ti:LiNbO3 Waveguides, Proc. of Int. Symp. "Capteurs '89", Parigi, France, 6-9 June 1989, pp.590-595
- 128) G.ANDRIA, M.SAVINO, A.TROTТА: Measurement of Harmonic Distortion and Unbalance in Power Systems, Proc. of Int. Symposium on 'Electric Energy Conversion Systems', Capri, 25-27 May 1989, paper No.W-H.12
- 129) G.ANDRIA, M.DE SARIO, A.D'ORAZIO, M.SAVINO: Integrated Optical Sensors for Effort Measurement and Control in Robotic Drives, AUTOMAZIONE E STRUMENTAZIONE, year XXXVII, n.5, May 1989, pp.215-221
- 130) G.ANDRIA, A.DELL'AQUILA, L.SALVATORE: Analysis of distorted unbalanced waveforms in inverter drives, IEEE TRANS. ON POWER ELECTRONICS, Vol.4, n.2, April 1989, pp.298-310
- 131) G.ANDRIA, L.SALVATORE, M.SAVINO, A.TROTТА: New Trend of Measurements for Characterization and Control of Electrical Machines, Proc. of the World Congress IMEKO XI on 'Instrumentation for the 21st Century', Houston (Texas, USA), 16-21 October 1988, Pt. III, pp. 79-98
- 132) G.ANDRIA, M.SAVINO, A.TROTТА: Development of DSP for automation of measurement digital instrumentation, Proc. of Nat. Conf. ANIPLA, Bari/Tecnopolis, 3-7 October 1988, Sess. II A 1
- 133) G.ANDRIA, M.SAVINO, A.TROTТА: Step-like waveform analysis to measure mechanical torques, MEASUREMENT, Vol.6, n.3, July 1988, pp. 107-111
- 134) G.ANDRIA, A.DELL'AQUILA, L.SALVATORE: Signal Processing for Determining Flux and Torque of Induction Motors - Proc. of 3rd IEE Int. Conf. on Power Electronics and Variable-Speed Drives, Londra, 13-15 July 1988, pp.296-300
- 135) G.ANDRIA, A.DELL'AQUILA, L.SALVATORE, M.SAVINO, A.TROTТА: Measurements on Inverter-Fed Induction Motors - Proc. of 3rd IEE Int. Conf. on Electrical Machines and Drives, Londra, 16-18 November 1987, pp.231-236
- 136) G.ANDRIA, A.DELL'AQUILA, L.SALVATORE: On-line identification of induction motor parameters - Proc. of Electrical Drive Symposium '87, Cagliari, 15-17 September 1987, pp.201-214
- 137) G.ANDRIA, A.DELL'AQUILA, L.SALVATORE, M.SAVINO: Improvements in Modeling and Testing of Induction Motors, IEEE TRANS. ON ENERGY CONVERSION, vol.EC-2, June 1987, pp.285-293
- 138) G.ANDRIA, A.DELL'AQUILA, L.SALVATORE: Identification of induction motor models for inverter drives - Proc. of XVI Int. Conf. on Identification, Modelling and Simulation, Parigi, 22-24 June 1987, pp.169-175
- 139) G.ANDRIA, A.DELL'AQUILA, L.SALVATORE: Induction machine modelling for transient analysis taking account of saturation - Proc. of VI Int. Symp. On Modelling, Identification and Control, Grindelwald (Svizzera), 17-20 February 1987, pp.112-119
- 140) G.ANDRIA, L.BATTISTELLI, G.CARPINELLI, A.PICCOLO: Probabilistic approach for harmonics evaluation in DC traction substations under non-idealized conditions, MODELLING AND SIMULATION IN ENGINEERING, 1986, pp.113-118
- 141) G.ANDRIA, P.DI LECCE, G.NOVIELLO, M.SAVINO: Interpolation of the FFT for the measurement of non-harmonic components in power systems, L'ENERGIA ELETTRICA, vol.LXIII, n.9, September 1986, pp.331-342
- 142) G.ANDRIA, A.DELL'AQUILA, L.SALVATORE, M.SAVINO: Dynamic testing of induction machines by means of a digital system - Proc. of Int. Conf. on Electrical Machines-ICEM '86, Munchen, 9-11 September 1986, pp.484-487

Funding acquisition

From 1998 until today, Prof. Andria is responsible for several research projects funded by the Italian Ministry of Education & University, aimed at measures for the environmental monitoring and processing of measurement information, safety and quality. A brief list of these projects is reported below:

1. PROJECT PONA3_00298 << STRENGTHENING OF STRUCTURES AND EQUIPMENT SCIENTIFIC AND TECHNOLOGICAL POLE OF SCIENCE AND TECHNOLOGY "Magna Grecia" >> (three-year project funded entirely by the Ministry of Education, 2012-2015)
2. PROJECT "DI.TR.IM.MIS. - DISSEMINATION TECHNOLOGY TRANSFER TO BUSINESSES OF MEASURES", within the RIDITT program (three-year project funded by MISE and MIUR - 2012-2015)
3. "DEVELOPMENT OF METHODS FOR THE CHARACTERISATION AND CORRECTION OF ERRORS IN THE STATIC CONVERSION A/D and D/A, WITH PARTICULAR REGARD TO THE BUILT-IN SELF-TEST AND TO SELF-CALIBRATION" (two-year project co-funded - PRIN 2008)
4. "TEST METHODS FOR CHARACTERIZATION AND INCREASE OF CHANNELS PERFORMANCE CONVERSION A/D and D/A" (two-year project co-funded - PRIN 2006)
5. "METHODOLOGIES FOR CHARACTERIZATION OF DIGITAL DO ALL IN THE ENVIRONMENTAL CONTROL" (co-financed - PRIN 2002 biennial Project)
6. "TEST METHODS FOR CHARACTERIZATION OF DIGITAL EQUIPMENT AUTOMATIC" (co-funded two-year project - PRIN 2003)
7. "STANDARDIZATION OF METHODS FOR TESTING AND CHARACTERIZATION OF ADVANCED DIGITAL EQUIPMENT AUTOMATIC" (co-funded two-year project - PRIN 2001)
8. TRAINING PROJECT "OF INDUSTRIAL WASTE MANAGEMENT" (P.O.N. 2000-2006 Production managed by ENEL S.p.A.)
9. HIGHER EDUCATION PROJECT "T.E.L.M.A. - TECHNICAL EXPERTS FOR METROLOGICAL LABORATORY ACCREDITED" (2000-2006 P.O.N. managed by the University of Naples" Federico II")
10. PROJECT FOR THE CONSTRUCTION OF A "PORTAL E-LEARNING FOR THE COURSES OF ELECTRICAL AND ELECTRONIC MEASUREMENTS" (2000-2006 P.O.N. managed by the University of Sannio)
11. PROJECT "AIM: Attraction and International Mobility" of the Researchers (2018, funded by MIUR)
12. PROJECT "PRIN 2022" titled "VIRIDIIS - Vertical gaRdens with Digital twIn of plants" (2022, funded by MUR)

Il sottoscritto autorizza con la presente il trattamento dei dati personali sopra riportati, ai sensi del DLgs 196/2003.