

## PERSONAL INFORMATION

## Gregorio Andria



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## 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–Present

**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".

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
- 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 Politecnico di 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.pdf](#)

ANNEXES

- Biographical notes.pdf

## Biographical notes.pdf

### **BIOGRAPHICAL NOTES OF PROF. GREGORIO ANDRIA – ADDITIONAL INFORMATION**

Gregorio Andria was born in Massafra, Apulia, Italy, on April 26th, 1956. 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 and 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 October 2012 until today, he covers the charge of President of the Interdepartmental Center of the Politecnico di Bari "Magna Grecia", Taranto, whose members are the Departments of Politecnico di Bari DEI, DMMM and DICATECh. Moreover, since May 2014, he serves also as Deputy Rector in all issues concerning the site of Taranto of the Politecnico di 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 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 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. Information);
- "MEASURES AND ELECTRONIC INSTRUMENTATION " (Degree in Eng. Information);
- "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);
- "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);
- "FOUNDAMENTALS OF MEASUREMENT AND METROLOGY GENERAL ELECTRIC" (University Diploma in Engineering for the Environment and Resources).

### 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, 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".

### **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 Politecnico di 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 scientific and also 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 led to more than 250 papers published in international journals or conference proceedings, altogether reaching more than 800 citations in scientific journals.

**Citation Report**

Citations number (December 2016):

785 via SCOPUS

1096 via GOOGL SCHOLAR

Hirsch Index (December 2016):

15 via SCOPUS

16 via GOOGLE SCHOLAR

**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) 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
- 11) 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
- 12) 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
- 13) 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
- 14) 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
- 15) 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
- 16) 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
- 17) 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
- 18) 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
- 19) 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
- 20) 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
- 21) 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
- 22) 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
- 23) 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
- 24) 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).



- 25) 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
- 26) 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
- 27) 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
- 28) 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
- 29) 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
- 30) 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
- 31) 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
- 32) 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
- 33) 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
- 34) 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
- 35) 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
- 36) 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
- 37) 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

- 38) 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
- 39) F. ADAMO, G. ANDRIA, F. ATTIVISSIMO, N. GIAQUINTO: Linearization of A/D Converters by dither and Chebyshev Polynomials, MEASUREMENT Journal, vol. 33, March 2004
- 40) G. ANDRIA, F. ATTIVISSIMO, N. GIAQUINTO: Digital Signal Processing Techniques for Accurate Electronic Sensor Measurement, MEASUREMENT, Vol.25, 2001
- 41) G. ANDRIA, F. ATTIVISSIMO, G. CAVONE, N. GIAQUINTO, A. TROTTA: Black-Box Identification of Digital Waveform Recorders, COMPUTER STANDARD AND INTERFACES, vol.22, n.4, October 2000, pp.245-252
- 42) 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
- 43) 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
- 44) 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
- 45) 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
- 46) 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
- 47) 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
- 48) 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
- 49) 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
- 50) 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
- 51) 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" - EETI'99, Roma, 20-24 September 1999
- 52) 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
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### 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)