

PERSONAL INFORMATION

Leopoldo Angrisani



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ORCID: [ORCID.ORG/0000-0001-6932-6891](https://orcid.org/0000-0001-6932-6891)

CURRENT JOB

Full Professor of Electrical and Electronic Measurements with the Department of Information Technology and Electrical Engineering of the University of Napoli Federico II, Italy.

Member of the Board of the Ph.D. Program on Information Technology and Electrical Engineering of University of Napoli Federico II.

WORK EXPERIENCE

Research activity

His research activity is currently focused on communication systems and networks test and measurement; measurements for Internet of Things applications; compressive sampling based measurements; measurements for Industry 4.0; measurement uncertainty.

Head of the research group in electrical and electronic measurements at the University of Napoli Federico II

EDUCATION AND TRAINING

From 1988 to 1993

Master Science Degree in Electronic Engineering

University of Salerno, ITALY

From 1994 to 1997

Ph.D in Electrotechnical Engineering – curriculum Electrical and Electronic Measurements

University of Napoli Federico II, ITALY

PERSONAL SKILLS

Mother tongue(s)

Italian

Other language(s)

English

UNDERSTANDING		SPEAKING		WRITING
Listening	Reading	Spoken interaction	Spoken production	
Independent user	Independent user	Independent user	Independent user	Proficient user

Communication skills

Good communication skills gained through his experience as professor.

Organisational / managerial skills

General Manager/Director of CeSMA – Center of Advanced Measurement and Technology Services of the University of Napoli Federico II, Italy. CeSMA enlists more than 30 laboratories, equipped with instrumentation with exclusive and distinctive features, and represents a strategic attractor for the entrepreneurial and industrial players, aiming at satisfying the great demand for measure services and, in more general terms, for enabling technologies at the state of the art in different technical fields, ranging from engineering to physics, from chemistry to biology. Its international role is reinforced by a close connection to peer institutions and research centres at national and international level (<http://www.cesma.unina.it/>)

Chair of IEEE Instrumentation & Measurement Italy Chapter – about 200 academic and industrial members focused on technical/scientific topics concerning instrumentation and measurement technology (<https://italy.ieeer8.org/chapters/>)

Coordinator of the Technical/Scientific Committee of MedITech – one of the eight Italian Competence Centers on I4.0 enabling technologies. Meditech (Meditech Consortium – Mediterranean Competence Center 4 Innovation) is the Competence Center which targets the use of Enabling Technologies of Industry 4.0 towards the diffusion of innovation practices in the production of goods and services on the national territory and in particular on the Mediterranean basin (<https://meditech4.com/>).

Job-related skills

He was and is currently involved in many industrial research projects, in cooperation with small, medium and great enterprises, for which he played and is currently playing the role of scientific coordinator. He is currently playing a relevant role in designing and developing the strategic pillars on which the national Competence Center on Industry 4.0, MedITech, led by Federico II University and geographically located in the South of Italy, is going to be based.

Driving licence

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ADDITIONAL INFORMATION

Publications

He is the author or co-author of more than 330 international scientific articles, one-third of which published in relevant international journals with impact factor. The list of his relevant publications is annexed.

Honours and awards

In 2009, he was awarded the IET Communications Premium for the paper entitled “Performance measurement of IEEE 802.11b-based networks affected by narrowband interference through cross-layer measurements” (published in IET Communications, vol. 2, No. 1, January 2008).
 In 2013, he was awarded the prestigious recognition “IEEE Transactions on Instrumentation and Measurement Outstanding Reviewer”.
 The IEEE Instrumentation & Measurement Society Italy Chapter, which he has been chairing since 2015, was awarded in 2016 the prestigious recognition “I&M Society Best Chapter Award” by the IEEE Instrumentation & Measurement Society, in 2017 the prestigious recognition “Most Improved Membership Chapter for 2016” and in 2018 the prestigious recognition “Most Innovative Chapter 2018” by the IEEE Italy Section.

Memberships

He is **Fellow Member of the IEEE** Instrumentation and Measurement and Communications Societies, Chair of the IEEE Instrumentation & Measurement Society Italy Chapter, Honorary Chairman of the first edition (M&N 2019) of the IEEE International Symposium on Measurements & Networking 2019, General Chairman of the second edition (MetroInd4.0&IoT 2019) of the IEEE International Workshop on Metrology for Industry 4.0 and IoT 2019, General Chair of the sixth edition (RTSI 2021) of IEEE Forum on Research and Technologies for Society and Industry Innovation for a smart world 2021. He was one of the promoters of the TC-37 “Measurements and Networking” technical committee of the IEEE Instrumentation & Measurement Society and General Chairman of the first (M&N2011), second (M&N2013), third (M&N2015) and fourth edition (M&N2017) of the IEEE International Workshop on Measurements & Networking.
 He is Representative of Italy in the IEC Validation Team-VT 60050 for maintenance and management of the International Electrotechnical Vocabulary.
 He is member of the Italian Association “GMEE-Electrical and Electronic Measurements Group”, of CNIT, National Inter-university Consortium for Telecommunications, of the Technical Committee CT 1/25 “Terminology, Quantities and Units” of CEI (Italian Electrotechnical Committee).
 He is corresponding member of the Accademia Pontaniana in Naples, the oldest Italian academy, with almost 600 years of history, which has always brought together renowned Neapolitan scholars.

Editorial activities

He is member of the Editorial Board of **ACTA IMEKO**, the open access journal of IMEKO – International

Measurement Confederation (<http://acta.imeko.org/index.php/acta-imeko/index>).

He is a member of the Editorial Board, and in particular of the Section Board for 'Internet of Things', of the open-access journal **SENSORS** (ISSN 1424-8220; CODEN: SENSC9), published monthly online by MDPI (https://www.mdpi.com/journal/sensors/sectioneditors/internet_of_things).

He is Associate Editor of the open-access journal **ARRAY** by ELSEVIER (<https://www.journals.elsevier.com/array/editorial-board>)

ANNEXES

List of relevant publications

Napoli, 25.08.2021

Leopoldo Angrisani



List of relevant publications

- [1] L.Angrisani, A.Baccigalupi, A.Pietrosanto, "A digital signal-processing instrument for impedance measurement", *IEEE Trans. on Instr. and Meas.*, vol.45, No.6, Dicembre 1996, pp.930-934. (ISI, IF=0,407)
- [2] L.Angrisani, P.Daponte, "Thin thickness measurements by means of a wavelet transform based method," *Measurement*, vol. 20, No. 4, pp. 227-242, Ottobre 1997.
- [3] L.Angrisani, A.Baccigalupi, A.Pietrosanto, "A VXI instrument for real time tracking of impedances", *Measurement*, vol. 20, No. 4, pp. 277-285, Ottobre 1997.
- [4] L.Angrisani, P.Daponte, C.Diaz, A.Vale, "Advanced processing techniques for high voltage test impulse signals", *IEEE Trans. on Instr. and Meas.*, vol.47, No.2, Aprile 1998, pp.439-445. (ISI, IF=0,416)
- [5] L.Angrisani, A.Pietrosanto, "A technique for electromagnetic interference measurements on instruments", *IEEE Trans. on Instr. and Meas.*, vol.47, No.4, Agosto 1998, pp.925-929. (ISI, IF=0,416)
- [6] L.Angrisani, P.Daponte, M.D'Apuzzo, "A virtual digital signal-processing instrument for measuring superimposed power line disturbances", *Measurement*, vol.24, No.1, Ottobre 1998, pp.9-19.
- [7] L.Angrisani, P.Daponte, M.D'Apuzzo, A.Testa, "A measurement method based on the wavelet transform for power quality analysis," *IEEE Trans. on Power Delivery*, vol.13, No.4, Ottobre 1998, pp.990-998. (ISI, IF=0,334)
- [8] L.Angrisani, P.Daponte, "A proposal for the automatic evaluation of the mean curve required by the ANSI/IEEE Std. 4-1978", *IEEE Trans. on Instr. and Meas.*, vol.47, No.5, Ottobre 1998, pp.1180-1186.
- [9] L.Angrisani, P.Daponte, M.D'Apuzzo, "A method for the detection and measurement of transients. Part I: the measurement method", *Measurement*, vol.25, No.1, Gennaio 1999, pp.19-30. (ISI, IF=0,416)
- [10] L.Angrisani, P.Daponte, M.D'Apuzzo, "A method for the detection and measurement of transients. Part II: applications", *Measurement*, vol.25, No.1, Gennaio 1999, pp.31-40.
- [11] L.Angrisani, P.Daponte, C.Liguori, A.Pietrosanto, "An image-based measurement system for the characterisation of automotive gaskets", *Measurement*, vol.25, No.3, Aprile 1999, pp.169-181.
- [12] L.Angrisani, P.Daponte, M.D'Apuzzo, A.Pietrosanto, "A VXI power quality analyser implementing a wavelet transform based measurement procedure", *Measurement*, vol.26, Agosto 1999, pp.91-102.
- [13] L.Bechou, L.Angrisani, Y.Ousten, D.Dallet, H.Levi, P.Daponte, Y.Danto, "Localization of defects in die-attach assembly by continuous wavelet transform using scanning acoustic microscopy", *Microelectronics Reliability*, vol.39, Ottobre 1999, pp.1095-1101.
- [14] L.Angrisani, P.Daponte, G.Lupò, C.Petrarca, M.Vitelli, "Analysis of ultrawide-band detected partial discharges by means of a multiresolution digital signal-processing method", *Measurement*, vol.27, Aprile 2000, pp.207-221. (ISI, IF=0,000)
- [15] L.Angrisani, P.Daponte, M.D'Apuzzo, "The detection of echoes from multilayer structures using the wavelet transform", *IEEE Trans. on Instr. and Meas.*, vol.49, No.4, Agosto 2000, pp.727-731. (ISI, IF=0,584)
- [16] L.Angrisani, P.Daponte, M.D'Apuzzo, "A measurement method based on time-frequency representations for testing GSM equipment", *IEEE Trans. on Instr. and Meas.*, vol.49, No.5, Ottobre 2000, pp.1050-1055. (ISI, IF=0,584)
- [17] L.Angrisani, M.D'Apuzzo, M.D'Arco, "A digital signal-processing approach for phase noise measurement", *IEEE Trans. on Instr. and Meas.*, vol.50, No.4, Agosto 2001, pp.930-935. (ISI, IF=0,900)
- [18] L.Angrisani, P.Daponte, M.D'Apuzzo, "Wavelet network-based detection and classification of transients", *IEEE Trans. on Instr. and Meas.*, vol.50, No.5, Ottobre 2001, pp.1425-1435. (ISI, IF=0,900)
- [19] L.Angrisani, L.Ferigno, "Reducing the uncertainty in real-time impedance measurements", *Measurement*, vol.30, Dicembre 2001, pp.307-315. (ISI, IF=0,000)
- [20] L.Angrisani, A.Baccigalupi, G.D'Angiolo, "Problems with jitter measurement in PDH/SDH-based digital telecommunication systems", *IEEE Trans. on Instr. and Meas.*, vol.50, No.6, Dicembre 2001, pp.1672-1678. (ISI, IF=0,900)
- [21] L.Angrisani, L.Bechou, D.Dallet, P.Daponte, Y.Ousten, "Detection and location of defects in electronic devices by means of scanning ultrasonic microscopy and the wavelet transform", *Measurement*, vol.31, No.2, Marzo 2002, pp.77-91. (ISI, IF=0,486)
- [22] L.Angrisani, A.Baccigalupi, M.D'Apuzzo, "Accurate self-synchronising technique for measuring transmitter phase and frequency errors in TDMA digitally encoded cellular systems", *IEEE Trans. on Instr. and Meas.*, vol.51, No.3, Giugno 2002, pp.460-468. (ISI, IF=0,592)
- [23] L.Angrisani, M.D'Arco, "A measurement method based on an modified version of the chirplet transform for instantaneous frequency estimation," *IEEE Trans. on Instr. and Meas.*, vol.51, No.4, Agosto 2002, pp.704-711. (ISI, IF=0,592)

- [24] LAngrisani, A.Baccigalupi, M.D'Arco, "A new method for close-to-the-carrier phase noise measurement", *IEEE Proceedings on Science, Measurement and Technology*, vol.150, No.1, Gennaio 2003, pp.35-39. (ISI, IF=0,321)
- [25] LAngrisani, P.Daponte, C.Dias, "Performance assessment according to IEC 1083-2 standard of a wavelet packet transform based method for measuring the parameters of high voltage impulses", *Measurement*, vol.33, No.1, Gennaio 2003, pp.95-108. (ISI, IF=0,434)
- [26] LAngrisani, A.Baccigalupi, G.D'Angiolo, "A frame-level measurement apparatus for performance testing of ATM equipment", *IEEE Trans. on Instr. and Meas.*, vol.52, No.1, Febbraio 2003, pp.20-26. (ISI, IF=0,703)
- [27] LAngrisani, M.D'Apuzzo, M.D'Arco, "A new method for power measurements in digital wireless communication systems", *IEEE Trans. on Instr. and Meas.*, vol.52, No.4, Agosto 2003, pp.1097-1106. (ISI, IF=0,703)
- [28] LAngrisani, "Optimisation and performance assessment of a digital signal-processing method for jitter measurement in PDH/SDH-based telecommunications network", *Measurement*, vol.34, No.4, Dicembre 2003, pp.313-323. (ISI, IF=0,434)
- [29] LAngrisani, R.Colella, "Detection and evaluation of I/Q impairments in RF digital transmitters", *IEE Proceedings Science, Measurement and Technology*, vol.151, No.1, Gennaio 2004, pp.39-45. (ISI, IF=0,295)
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- [31] LAngrisani, A.Baccigalupi, M.D'Arco, "Evaluating phase noise power spectrum with variable frequency resolution", *IEEE Trans. on Instr. and Meas.*, vol.53, No.3, Giugno 2004, pp.685-691. (ISI, IF=0,446)
- [32] LAngrisani, M.D'Arco, M.Vadursi, "Error vector-based measurement procedures for RF digital transmitters troubleshooting", *IEEE Trans. on Instr. and Meas.*, vol.54, No.4, Agosto 2005, pp.1381-1387. (ISI, IF=0,665)
- [33] LAngrisani, M.D'Arco, R.Schiano Lo Moriello, M.Vadursi, "On the use of the warblet transform for instantaneous frequency estimation", *IEEE Trans. on Instr. and Meas.*, vol.54, No.4, Agosto 2005, pp.1374-1380. (ISI, IF=0,665)
- [34] LAngrisani, "A wavelet packet-based approach for interference measurement in spread spectrum wireless communication systems", *IEEE Trans. on Instr. and Meas.*, vol.54, No.6, Dicembre 2005, pp.2272-2280. (ISI, IF=0,665)
- [35] LAngrisani, S.D'Antonio, M.Esposito, M.Vadursi, "Techniques for available bandwidth measurements in IP networks: a performance comparison", *Computer Networks, Elsevier*, vol.50, Gennaio 2006, pp.332-349. (ISI, IF=0,631)
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- [39] LAngrisani, M.D'Apuzzo, R.Schiano Lo Moriello, "The unscented transform: a powerful tool for measurement uncertainty evaluation", *IEEE Trans. on Instr. and Meas.*, vol.55, No.3, Giugno 2006, pp.737-743. (ISI, IF=0,572)
- [40] LAngrisani, L.Peluso, A.Tedesco, G.Ventre, "Measurement of processing and queuing delays introduced by an open-source router in a single-hop network", *IEEE Trans. on Instr. and Meas.*, vol.55, No.4, Agosto 2006, pp.1065-1076. (ISI, IF=0,572)
- [41] LAngrisani, A.Baccigalupi, R.Schiano Lo Moriello, "Ultrasonic time-of-flight estimation through unscented Kalman filter", *IEEE Trans. on Instr. and Meas.*, vol.55, No.4, Agosto 2006, pp.1077-1084. (ISI, IF=0,572)
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- [43] LAngrisani, M.D'Apuzzo, R.Schiano Lo Moriello, "New proposal for uncertainty estimation in indirect measurements", *IEEE Trans. on Instr. and Meas.*, vol.55, No.4, Agosto 2006, pp.1059-1064. (ISI, IF=0,572)
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- [45] LAngrisani, I.Ghidini, M.Vadursi, "A new method for I/Q impairments detection and evaluation in OFDM transmitters", *IEEE Trans. on Instr. and Meas.*, vol.55, No.5, Ottobre 2006, pp.1480-1486. (ISI, IF=0,572)
- [46] LAngrisani, M.D'Apuzzo, M.D'Arco, "Fast transformation for DAC parameters identification", *IEEE Trans. on Instr. and Meas.*, vol.55, No.6, Dicembre 2006, pp.2007-2013. (ISI, IF=0,572)
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- [48] LAngrisani, L.Battaglia, F.Delfino, "GRID-based power measurement in digital wireless communication systems", *IEEE Trans. on Instr. and Meas.*, vol.56, No.5, Ottobre 2007, pp.1565-1572. (ISI, IF=0,832)

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- [53] L.Angrisani, M.Vadursi, "On the optimal sampling of bandpass measurement signals through data acquisition systems", *Institute of Physics (IOP) Publishing-Measurement Science and Technology*, vol.19, Febbraio 2008, pp.1-9. (ISI, IF=1,493)
- [54] L.Angrisani, M.Bertocco, D.Fortin, A.Sona, "Experimental Study of Coexistence Issues Between IEEE 802.11b and IEEE 802.15.4 Wireless Networks", *IEEE Trans. on Instr. and Meas.*, vol.57, No.8, Agosto 2008, pp.1514-1523. (ISI, IF=0,978)
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- [59] L.Angrisani, D.Caprigione, L.Ferrigno, G.Miele, "Power measurement in DVB-T systems: on the suitability of parametric spectral estimation in DSP-based meters", *IEEE Trans. on Instr. and Meas.*, vol.58, No.1, Gennaio 2009, pp.76-86. (ISI, IF=1,025)
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- [72] L.Angrisani, D.Caprigione, L.Ferrigno, G.Miele, "A methodological approach for estimating protocol analyzer instrumental measurement uncertainty in packet jitter evaluation", *IEEE Trans. on Instr. and Meas.*, vol.61, No.5, Maggio 2012, pp.1405-1416. (ISI, IF=1.357)

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- [74] LAngrisani, R.Cavaliere, M.Farias, D.Izzo, "On the use of antenna diversity measurements for mobile DVB-T performance assessment", *IEEE Trans. on Instr. and Meas.*, vol.61, No.7, Luglio 2012, pp.1883-1895. (ISI, IF=1.357)
- [75] LAngrisani, M.D'Arco, G.Ianniello, M.Vadursi, "An efficient pre-processing scheme to enhance resolution in band-pass signals acquisition", *IEEE Trans. on Instr. and Meas.*, vol.61, No.11, Novembre 2012, pp.2932-2940. ISSN: 0018-9456, doi: 10.1109/TIM.2012.2202188 (ISI, IF=1.357)
- [76] LAngrisani, M.Ascione, A.Buonanno, M.D'Urso, R.Schiano Lo Moriello, "A new measurement method based on MUSIC algorithm for through-the-wall detection of life signs", *IEEE Trans. on Instr. and Meas.*, vol.62, No.1, Gennaio 2013, pp. 13-26. (ISI, IF= 1.710)
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