

INFORMAZIONI PERSONALI

VINCENZO STORNELLI

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ESPERIENZA
PROFESSIONALE

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- (2004 - 2007) Dottorato di Ricerca in Ing. Elettrica e Dell'Informazione

 - (2008 - 2011) Collaboratore di ricerca con contratti a progetto presso il Dipartimento di Ingegneria Elettrica e dell'informazione dell'Università Degli Studi dell'Aquila

 - (2011- 2014) Ricercatore Universitario presso il Dipartimento di Ingegneria Industriale e dell'informazione e di Economia dell'Università Degli Studi dell'Aquila

 - (2013- Attuale) Membro del consiglio scientifico e consiglio direttivo del consorzio interuniversitario MECSA

 - (2014- 2017) Membro del CDA dello spin-off Biomaterials and Engineering

 - (2017- 2018) Socio fondatore, CEO e Membro del CDA dello spin-off SENSing srl

 - (2014- Attuale) Professore Associato presso il Dipartimento di Ingegneria Industriale e dell'informazione e di Economia dell'Università Degli Studi dell'Aquila

 - (2018-Attuale) Membro del Senato Accademico dell'Università Degli Studi Dell'Aquila

ISTRUZIONE E FORMAZIONE

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- 1999 Maturità Scientifica, Liceo Scientifico A. Bafile (100/100)

 - 2004 Laurea magistrale V.O. In Ingegneria Elettronica (110 e lode)

 - 2008 Dottorato di ricerca in Ingegneria Elettrica e dell'informazione

ATTIVITA' EDITORIALI
PRINCIPALI

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- 2004 -Today Reviewer for the major journals and conferences in the electronics and Microelectronics field as, among others, IEEE Transactions on Circuits and Systems I e II, IEEE MTT, Journal of Circuits Systems and Computers, Radioengineering, Microelectronic Journal, ISCAS, ICECS, PRIME, ICICDT, ECCDT.

 - 2011-Today Associate Editor of the international Journal of Circuits, Systems and Computers.

2009-Today Member of the Technical Committee and organizing committee of several International conference as, among other, ICRSTA 2015, SPLITECH 2016, ECCTD 2017, SPLITECH 2017, Splitech 2018

2004-Today Organizer of Special Sessions and workshops on sensors and analog circuits as, among other, those in the IEEE Sensors 2008, IEEE ECCT 2017, ITSS 2005, ITSS 2016.

ULTERIORI INFORMAZIONI

Pubblicazioni
 Presentazioni
 Progetti
 Conferenze
 Seminari
 Riconoscimenti e premi
 Appartenenza a gruppi /
 associazioni
 Referenze
 Menzioni
 Corsi
 Certificazioni

Skills & Activities

Circuits, Electronics, Biomedical Signal Processing, Sensors, Analog Electronics, Signal Processing, Communication & Signal Processing, Semiconductor, Fabrication, CMOS, Cadence Simulator, Microelectronics, Circuit Analysis, Integrated Circuits, Digital Signal Processing, Electronic Engineering, Gas Sensors, Analog Signal Processing, Bluetooth, Analog-Digital Conversion, Filters, Low Power, ADC, GSM, Filter Design, Radio Frequency, Antenna, Sensor Networks, Chemical Sensors, LNA, Harmonics, Automotive Engineering, Electronic Amplifiers

Research Activity

The scientific activity of Prof. Stornelli in the last ten years is focused in the field of analog and mixed-signal integrated circuits and architectures for information, biomedical and industrial applications, sensor interfaces and high frequency circuit and systems. The activity is documented by continuous and copious scientific publications in the following fields:

- energy harvesting systems and architectures for autonomous apparatus-
 The research studies in the field have been conducted on novel circuitry and architecture for high efficiency energy conversion stages and power management strategy. RF energy converter and power manager blocks have been widely investigated and developed both at discrete and integrated circuit level. Also thermoelectric and piezoelectric harvester are under developing. In particular, different specific multi-channel RF system were developed and optimized, while an innovative strategy and system for the recovery of available RF energy was also recently developed.

- Design of analog integrated circuits for LF, RF and microwave applications-
 In these fields the main research activity has concerned and still concerns the design of analog integrated circuits, both in bipolar and CMOS technology, operating at low supply voltages (low-voltage, LV) and with reduced power consumption (low power, LP). The LV and LP design aspects are actually distinct but can be combined together. As far as the LV is concerned, the

activity has been continuous and the consequent copious scientific production demonstrates the theoretical studies also developed during a visiting professorship research period at the Thales Italia R&D dept.

- study analysis and simulation of physics based semiconductor devices for microwave and millimeter-wave- The research activity mainly focuses on the reformulation of the equations that allow the study and prediction of the behavior of semiconductor active devices.

- "current mode" approach design- In most applications, the traditional voltage-mode technique can be replaced by the current-mode one, having the recognized advantage of overcoming the limitation of the gain-bandwidth product, typical of operational amplifiers. As integrated circuits have been implemented and fabricated with a microelectronic design in CMOS standard technology at the transistor level, several new CCII topologies, operating at low voltage and low power, with almost ideal characteristics thanks to its particular topologies.

Books

G.Ferri, V.Stornelli: Circuiti e Sistemi per la Microelettronica. 09/2012; l'una., ISBN: 978-88-96139-20-8

Book Chapters

Vincenzo Stornelli, Leonardo Pantoli, Giorgio Leuzzi: Microwave Active Filter Design. Microwave Systems and Applications, 01/2017; , ISBN: 978-953-51-2867-0, DOI:10.5772/65917

V. Stornelli, A. Di Carlofelice, L. Pantoli, E. Di Giampaolo: Radio frequency energy harvester for remote sensor networks. 01/2014: pages 331-334; , DOI:10.1007/978-3-319-00684-0_63

A. De Marcellis, C. Di Carlo, G. Ferri, V. Stornelli, A. Depari, A. Flammini, D. Marioli: A Novel Calibration-Less CCII-Based Resistance-to-Time Front-End for Gas Sensor Interfacing. Sensors and Microsystems, 11/2010: pages 279-284; , DOI:10.1007/978-90-481-3606-3_54

A. Depari, A. Flammini, D. Marioli, E. Sisinni, A. De Marcellis, G. Ferri, V. Stornelli: A New Fast-Readout Front-End for High Resistive Chemical Sensor Applications. Sensors and Microsystems, 01/2010: pages 273-278; , DOI:10.1007/978-90-481-3606-3_53

A. De Marcellis, C. Di Carlo, G. Ferri, V. Stornelli, A. D'Amico, C. Di Natale, E. Martinelli: A Differential Difference Current-Conveyor (DDCCII) Based Front-End for Integrable and Portable Sensor Applications. Sensors and Microsystems, 01/2010: pages 267-271; , DOI:10.1007/978-90-481-3606-3_52

Journal Publications

- L. Pantoli, V. Stornelli, G. Leuzzi, Hongjun Li, Zhifu Hu: On-chip active filter in GaAs technology for wireless communication systems. *Analog Integrated Circuits and Signal Processing* 04/2018;, DOI:10.1007/s10470-018-1198-1
- V. Stornelli, G. Ferri, L. Pantoli, G. Barile, S. Pennisi: A rail-to-rail constant-g m CCI for Instrumentation Amplifier applications. *AEU - International Journal of Electronics and Communications* 04/2018;, DOI:10.1016/j.aeue.2018.04.029
- L. Safari, S. Minaei, G. Ferri, V. Stornelli: Current-Mode Instrumentation Amplifier Based on Supply Current Sensing Technique. *AEU - International Journal of Electronics and Communications* 04/2018;, DOI:10.1016/j.aeue.2018.04.011
- Leila Safari, Shahram Minaei, Giuseppe Ferri, Vincenzo Stornelli: Analysis and Design of a New COA-Based Current-Mode Instrumentation Amplifier with Robust Performance against Mismatches. *AEU - International Journal of Electronics and Communications* 03/2018; 89., DOI:10.1016/j.aeue.2018.03.021
- Paolo Colucci, Arnaldo D'Amico, Andrea De Marcellis, Christian Falconi, Giuseppe Ferri, Francesco Giovannelli, Francesca Romana Parente, Vincenzo Stornelli: CCI-Based Voltage Amplifier Optimization for Reduced Relative Gain Error. *Circuits Systems and Signal Processing* 03/2018; 37(3):1315-1326., DOI:10.1007/s00034-017-0590-x
- Francesca Romana Parente, Simone Di Giovanni, Giuseppe Ferri, Vincenzo Stornelli, Giorgio Pennazza, Marco Santonico: An Analog Bootstrapped Biosignal Read-Out Circuit With Common-Mode Impedance Two-Electrode Compensation. *IEEE Sensors Journal* 01/2018; PP(99):1-1., DOI:10.1109/JSEN.2018.2799849
- Alessandro Depari, Emiliano Sisinni, Alessandra Flammini, Giuseppe Ferri, Vincenzo Stornelli, Gianluca Barile, Francesca Romana Parente: Autobalancing Analog Front End for Full-Range Differential Capacitive Sensing. *IEEE Transactions on Instrumentation and Measurement* 01/2018; PP(99):1-9., DOI:10.1109/TIM.2017.2785160
- A. Leoni, L. Pantoli, V. Stornelli, G. Leuzzi, Zlatica Marinkovic: Automated Calibration System for RF Configurable Voltage-Controlled Filters. *Circuits and Systems II: Express Briefs*, *IEEE Transactions on* 01/2018; PP(99):1-1., DOI:10.1109/TCSII.2018.2790078
- Alfiero Leoni, Leonardo Pantoli, Vincenzo Stornelli, Giuseppe Ferri, Petar Solic, Mladen Russo: A Combined 90/900 MHz IC Architecture for Smart Tag Application. *Journal of Communications Software and Systems* 01/2018; 14(1), DOI:10.24138/jcomss.v14i1.451
- Leonardo Pantoli, vincenzo stornelli, Giorgio Leuzzi, Marco Bartocci, Fabrizio Trotta, Domenico Gaetano, Antonio Manna, Egidio Ciaccia, Franco Di Paolo: A GaAs 0.5-18 GHz Antenna Front-end with Integrated Limiter and Differential to Single Ended Low-Noise Amplifier. *IET Microwaves Antennas & Propagation* 12/2017;, DOI:10.1049/iet-map.2017.0094
- Leonardo Pantoli, Vincenzo Stornelli, Giorgio Leuzzi: High Dynamic Range, Low Power, Tunable, Active Filter for RF and Microwave Wireless Applications. *IET Microwaves Antennas & Propagation* 11/2017; 12(4), DOI:10.1049/iet-map.2017.0685
- Gianluca Barile, Giuseppe Ferri, Francesca Romana Parente, Vincenzo Stornelli,

- Alessandro Depari, Alessandra Flammini, Emiliano Sisinni: Linear Integrated Interface for Automatic Differential Capacitive Sensing. 08/2017; 1(4):592., DOI:10.3390/proceedings1040592
- Marco Santonico, Giorgio Pennazza, Francesca Romana Parente, Simone Grasso, Alessandro Zompanti, Vincenzo Stornelli, Giuseppe Ferri, Mariano Bizzari, Arnaldo D'Amico: A Gas Sensor Device for Oxygen and Carbon Dioxide Detection. 08/2017; 1(4):447., DOI:10.3390/proceedings1040447
- G. Ferri, F.R. Parente, V. Stornelli: Current conveyor-based differential capacitance analog interface for displacement sensing application. AEU - International Journal of Electronics and Communications 07/2017; 81., DOI:10.1016/j.aeue.2017.07.014
- Tullio de Rubeis, Mirco Muttillio, Leonardo Pantoli, Iole Nardi, Ivan Leone, Vincenzo Stornelli, Dario Ambrosini: A First Approach to Universal Daylight and Occupancy Control System for Any Lamps: Simulated Case in an Academic Classroom. Energy and Buildings 07/2017; 152., DOI:10.1016/j.enbuild.2017.07.025
- V. Stornelli, L. Pantoli, G. Ferri, L. Liberati, F. Centurelli, P. Monsurrò, A. Trifiletti: The AB-CCII, a novel adaptive biasing LV-LP current conveyor architecture. AEU - International Journal of Electronics and Communications 06/2017; 79., DOI:10.1016/j.aeue.2017.06.022
- Leonardo Pantoli, Alfiero Leoni, Vincenzo Stornelli, Giuseppe Ferri: An IC architecture for RF Energy Harvesting systems. Journal of Communications Software and Systems 06/2017; 13(2):96., DOI:10.24138/jcomss.v13i2.377
- V. Stornelli, G. Ferri, A. Leoni, L. Pantoli: The Assessment of Wind Conditions by Means of Hot Wire Sensors and a Modified Wheatstone Bridge Architecture. Sensors and Actuators A Physical 05/2017; 262., DOI:10.1016/j.sna.2017.05.005
- Giuseppe Ferri, Vincenzo Stornelli, francesca romana parente, Gianluca Barile: Full range analog Wheatstone bridge-based automatic circuit for differential capacitance sensor evaluation. International Journal of Circuit Theory and Applications 10/2016;, DOI:10.1002/cta.2298
- P. Di Marco, V. Stornelli, G. Ferri, L. Pantoli, A. Leoni: Dual band harvester architecture for autonomous remote sensors. Sensors and Actuators A Physical 07/2016; 247., DOI:10.1016/j.sna.2016.06.040
- Leonardo Pantoli, vincenzo stornelli, giorgio leuzzi: A low-voltage low-power 0.25 μm integrated single transistor active inductor-based filter. Analog Integrated Circuits and Signal Processing 04/2016; 87(3)., DOI:10.1007/s10470-016-0727-z
- Leonardo Pantoli, Vincenzo Stornelli, Giorgio Leuzzi: Active Resonator for Low-Phase-Noise Tunable Oscillators. Microwave and Optical Technology Letters 03/2016; 58(5)., DOI:10.1002/mop.29725
- L. Pantoli, V. Stornelli, G. Leuzzi: Low-noise tunable filter design by means of active components. Electronics Letters 11/2015;, DOI:10.1049/el.2015.2225
- G. Ferri, F.R. Parente, V. Stornelli, A. D'Amico, G. Pennazza, M. Santonico: A standard CMOS technology fully-analog differential capacitance sensor front-end. DOI:10.1109/IWASI.2015.7184939
- L. Pantoli, V. Stornelli, G. Leuzzi: Class AB tunable active inductor. Electronics

Letters 01/2015; 51(1):65-67., DOI:10.1049/el.2014.3877

Leonardo Pantoli, Vincenzo Stornelli, Giorgio Leuzzi: Tunable active filters for RF and microwave applications. *Journal of Circuits, Systems and Computers* 05/2014; 23(06), DOI:10.1142/S0218126614500881

Leonardo Pantoli, Vincenzo Stornelli: A gaussian monocycle pulse generator/modulator for uwb radios applications. *Journal of Circuits, Systems and Computers* 05/2014; 23(05), DOI:10.1142/S0218126614500601

P. Branchi, L. Pantoli, V. Stornelli, G. Leuzzi: RF and microwave high-Q floating active inductor design and implementation. *International Journal of Circuit Theory and Applications* 04/2014; 43(8), DOI:10.1002/cta.1991

V. Stornelli, G. Ferri: A single current conveyor-based low voltage low power bootstrap circuit for ElectroCardioGraphy and ElectroEncephaloGraphy acquisition systems. *Analog Integrated Circuits and Signal Processing* 04/2014; 79(1), DOI:10.1007/s10470-013-0252-2

V. Stornelli, P. Mantenuto, G. Ferri, P. Di Marco: A Compact Architecture for Heartbeat Monitoring. *Lecture Notes in Electrical Engineering* 01/2014; 268:301-305., DOI:10.1007/978-3-319-00684-0-57

G. Leuzzi, V. Stornelli, L. Pantoli, S. Del Re: Single transistor high linearity and wide dynamic range active inductor. *International Journal of Circuit Theory and Applications* 07/2013; 43(3), DOI:10.1002/cta.1938

Vincenzo Stornelli, Giuseppe Ferri: A 0.18 μ m CMOS DDCCII for portable LV-LP filters. *Radioengineering* 06/2013; 22(2):434-439.

V. Stornelli, L. Pantoli, G. Leuzzi, G. Ferri: Fully differential DDA-based fifth and seventh order Bessel low pass filters and buffers for DCR radio systems. *Analog Integrated Circuits and Signal Processing* 05/2013; 75(2), DOI:10.1007/s10470-013-0051-9

V. Stornelli, L. Pantoli, G. Leuzzi: High Quality Factor L-Band Active Inductor-Based Band-Pass Filters. *Journal of Circuits, Systems and Computers* 03/2013; 22(03), DOI:10.1142/S021812661350014X

Giorgio Leuzzi, Vincenzo Stornelli: SB-PE drift-diffusion algorithm for FET devices global modeling. *Microelectronics Journal* 01/2013; 44(1), DOI:10.1016/j.mejo.2011.07.013

Paolo Colucci, Giorgio Leuzzi, Leonardo Pantoli, Vincenzo Stornelli: Third order integrable UHF bandpass filter using active inductors. *Microwave and Optical Technology Letters* 06/2012; 54(6), DOI:10.1002/mop.26857

Giuseppe Ferri, Vincenzo Stornelli, Alessia di Simone: A CCII-Based High Impedance Input Stage for Biomedical Applications.. *Journal of Circuits, Systems and Computers* 12/2011; 20(08):1441-1447., DOI:10.1142/S021812661100802X

Giorgio Leuzzi, Vincenzo Stornelli, Stefano Del Re: A Tuneable Active Inductor With High Dynamic Range for Band-Pass Filter Applications. *Circuits and Systems II: Express Briefs, IEEE Transactions on* 10/2011; 58-II(10):647-651., DOI:10.1109/TCSII.2011.2164145

Andrea De Marcellis, Claudia Di Carlo, Giuseppe Ferri, Vincenzo Stornelli: A CCII-based wide frequency range square waveform generator. *International Journal of Circuit Theory and Applications* 01/2011; 41(1),

DOI:10.1002/cta.781

- A. Depari, A. Flammini, D. Marioli, E. Sisinni, A. De Marcellis, G. Ferri, V. Stornelli: A New and Fast-Readout Interface for Resistive Chemical Sensors. IEEE Transactions on Instrumentation and Measurement 06/2010; 59(5-59):1276 - 1283.
- Alessandro Depari, Alessandra Flammini, Daniele Marioli, Emiliano Sisinni, Andrea De Marcellis, Giuseppe Ferri, Vincenzo Stornelli: A New and Fast-Readout Interface for Resistive Chemical Sensors. IEEE Transactions on Instrumentation and Measurement 05/2010; 59(5):1276-1283., DOI:10.1109/TIM.2009.2038292
- A. D'Amico, A. De Marcellis, C. Di Carlo, C. Di Natale, G. Ferri, E. Martinelli, R. Paolesse, V. Stornelli: Low-voltage low-power integrated analog lock-in amplifier for gas sensor applications. Sensors and Actuators B Chemical 02/2010; 144(2-144):400-406., DOI:10.1016/j.snb.2009.01.045
- Paolo Colucci, Giorgio Leuzzi, Vincenzo Stornelli: HF Class-E based multiplier circuits. DOI:10.1109/INMMIC.2010.5480108
- Giuseppe Ferri, Andrea De Marcellis, Claudia Di Carlo, Vincenzo Stornelli, Alessandra Flammini, Alessandro Depari, Daniele Marioli, Emiliano Sisinni: A CCII-Based Low-Voltage Low-Power Read-Out Circuit for DC-Excited Resistive Gas Sensors. IEEE Sensors Journal 01/2010; 9(12-9):2035 - 2041., DOI:10.1109/JSEN.2009.2033197
- Giuseppe Ferri, Claudia Di Carlo, Vincenzo Stornelli, Andrea De Marcellis, Alessandra Flammini, Alessandro Depari, Nader Jand: A single-chip integrated interfacing circuit for wide-range resistive gas sensor arrays. Sensors and Actuators B Chemical 12/2009; 143(1-143):218-225., DOI:10.1016/j.snb.2009.09.002
- A. De Marcellis, G. Ferri, N. C. Guerrini, G. Scotti, V. Stornelli, A. Trifiletti: The VCG-CCII: A novel building block and its application to capacitance multiplication. Analog Integrated Circuits and Signal Processing 08/2009; 58(1):55-59., DOI:10.1007/s10470-008-9213-6
- V. Stornelli, G. Leuzzi: Global modeling of multifinger MOSFETs with SB-SP combined analysis. DOI:10.1109/RME.2009.5201343
- Vincenzo Stornelli, Giuseppe Ferri, King Pace: CMOS pulse generator for BPSK, OOK, PAM, and PPM modulations. Journal of Circuits, Systems and Computers 05/2009; 18(3):487-495., DOI:10.1142/S0218126609005320
- Vincenzo Stornelli: Low voltage Low Power Fully Differential Buffer.. Journal of Circuits, Systems and Computers 05/2009; 18(3):497-502., DOI:10.1142/S0218126609005319
- Andrea De Marcellis, Giuseppe Ferri, Nicola Carlo Guerrini, Giuseppe Scotti, Vincenzo Stornelli, Alessandro Trifiletti: A novel low-voltage low-power fully differential voltage and current gained CCII for floating impedance simulations. Microelectronics Journal 01/2009; 40(1-40):20-25., DOI:10.1016/j.mejo.2008.08.014
- Giorgio Leuzzi, Vincenzo Stornelli: Physical/electromagnetic analysis of multifinger MOSFETs with SB-SP combined methods. International Journal of RF and Microwave Computer-Aided Engineering 01/2009; 20(2):141 - 147., DOI:10.1002/mmce.20408

- Giorgio Leuzzi, Vincenzo Stornelli: A Frequency- and Space-Domain Series-Expansion Approach for Efficient Numerical Modeling of Semiconductor Devices. *IEEE Transactions on Electron Devices* 01/2009; 55(12-55):3525 - 3531., DOI:10.1109/TED.2008.2006740
- Giorgio Leuzzi, Vincenzo Stornelli: Efficient Frequency Domain plus Spatial Expansion Method For Semiconductor Devices Modeling. DOI:10.1109/EMICC.2008.4772302
- Andrea De Marcellis, Alessandro Depari, Giuseppe Ferri, Alessandra Flammini, Daniele Marioli, Vincenzo Stornelli, Andrea Taroni: A CMOS Integrable Oscillator-Based Front End for High-Dynamic-Range Resistive Sensors. *IEEE Transactions on Instrumentation and Measurement* 09/2008; 57(8-57):1596 - 1604., DOI:10.1109/TIM.2008.922075
- Andrea De Marcellis, Alessandro Depari, Giuseppe Ferri, Alessandra Flammini, Daniele Marioli, Vincenzo Stornelli, Andrea Taroni: Uncalibrated integrable wide-range single-supply portable interface for resistance and parasitic capacitance determination. *Sensors and Actuators B Chemical* 06/2008; 132(2-132):477-484., DOI:10.1016/j.snb.2007.10.068
- Christian Falconi, Giuseppe Ferri, Vincenzo Stornelli, Andrea De Marcellis, Daniele Mazzieri, Arnaldo D'Amico: Current-Mode High-Accuracy High-Precision CMOS Amplifiers. *Circuits and Systems II: Express Briefs, IEEE Transactions on* 06/2008; 55(5-55):394 - 398., DOI:10.1109/TCSII.2007.914407
- Giuseppe Ferri, Vincenzo Stornelli, Andrea De Marcellis, Alessandra Flammini, Alessandro Depari: Novel CMOS fully integrable interface for wide-range resistive sensor arrays with parasitic capacitance estimation. *Sensors and Actuators B Chemical* 03/2008; 130(1-130):207-215., DOI:10.1016/j.snb.2007.08.001
- Giorgio Leuzzi, Vincenzo Stornelli: Quasi-2D Frequency-Domain Physical Modeling of MOSFETs by the Spectral Balance Technique.
- Andrea De Marcellis, Alessandro Depari, Giuseppe Ferri, Alessandra Flammini, Daniele Marioli, Vincenzo Stornelli, Andrea Taroni: A CMOS Integrable Oscillator-Based Front End for High-Dynamic-Range Resistive Sensors..
- Giuseppe Ferri, Vincenzo Stornelli, Angelo Celeste: Integrated Rail-to-Rail Low-Voltage Low-Power Enhanced DC-Gain Fully Differential Operational Transconductance Amplifier. *Etri Journal* 12/2007; 29(6):785-793., DOI:10.4218/etrij.07.0107.0172
- Giorgio Leuzzi, Vincenzo Stornelli: Global Modeling Analysis of HEMTs by the Spectral Balance Technique. *IEEE Transactions on Microwave Theory and Techniques* 07/2007; 55(6-55):1405 - 1412., DOI:10.1109/TMTT.2007.895233
- Christian Falconi, Eugenio Martinelli, Di Corrado, Natale, Arnaldo D 'amico, Franco Maloberti, Piero Malcovati, Andrea Baschiroto, Vincenzo Stornelli, Giuseppe Ferri: Electronic interfaces. *Sensors and Actuators B Chemical* 01/2007; 121(1):295-329., DOI:10.1016/j.snb.2006.09.022
- Giuseppe Ferri, Vincenzo Stornelli, Walter Cappucci, Carlo Cantalini: Integrated CMOS interfaces for wide-range resistive gas sensors. *Sensors and Actuators B Chemical* 10/2006; 118(1):269-275., DOI:10.1016/j.snb.2006.04.032

- Giuseppe Ferri, Vincenzo Stornelli, Mauro Fragnoli: An integrated improved CCII topology for resistive sensor application. *Analog Integrated Circuits and Signal Processing* 09/2006; 48(3):247-250., DOI:10.1007/s10470-006-7415-3
- Giuseppe Ferri, Vincenzo Stornelli: A high precision temperature control system for CMOS integrated wide range resistive gas sensors. *Analog Integrated Circuits and Signal Processing* 01/2006; 47(3):293-301., DOI:10.1007/s10470-006-6991-6
- Giorgio Leuzzi, Vincenzo Stornelli: Towards Very High Frequency Simulators for Active Device Modelling. DOI:10.1109/RME.2006.1689930
- Giuseppe Ferri, V. Stornelli, Livio Giuli: A low voltage low power DCCII and MRC-based 2nd order multiple-output filter. DOI:10.1109/RME.2006.1689885
- Giuseppe Ferri, Nicola Guerrini, Vincenzo Stornelli: A temperature control system for integrated resistive gas sensor arrays. *Proceedings of SPIE - The International Society for Optical Engineering* 06/2005; 5837., DOI:10.1117/12.608075
- Vincenzo Stornelli, Mario Caramanico, Massimo Di Fabrizio, Angelo Brigante: A K-band Biconical Antennas System for Wireless Wideband Communication Equipments.

International Patents

- G. Leuzzi, V. Stornelli, P. Colucci, L. Pantoli: Low-noise electronic circuit simulating the behavior of an inductance. Ref. No: US 20140292448 A1, Year: 10/2014

Conference Proceedings

- Leonardo Pantoli, Vincenzo Stornelli, Leuzzi Giorgio: Active Filter Synthesis and Optimization Method. 7th International Workshop on Microwave Filters, ESTEC - ESA, Noordwijk, The Netherlands; 04/2018
- Francesca Romana Parente, Simone Di Giovanni, Giuseppe Ferri, Vincenzo Stornelli, Giorgio Pennazza, Marco Santonico: An Electrode Impedance Balanced Interface for Biomedical Application. *AISEM Annual Conference on Sensors and Microsystems*; 02/2018, DOI:10.1007/978-3-319-66802-4_36
- A. Zompanti, P. Finamore, C. Pedone, M. Santonico, S. Grasso, F. R. Parente, G. Ferri, V. Stornelli, D. Lelli, L. Costanzo, R. Antonelli Incalzi, G. Pennazza: Breath-Printing of Heart Failure in Elderly. *AISEM Annual Conference on Sensors and Microsystems*; 02/2018, DOI:10.1007/978-3-319-66802-4_23
- G. Ferri, F. R. Parente, V. Stornelli, G. Barile, G. Pennazza, M. Santonico: Voltage-Mode Analog Interfaces for Differential Capacitance Position Transducers. *Convegno Nazionale Sensori*; 02/2018, DOI:10.1007/978-3-319-55077-0_49
- G. Ferri, F. R. Parente, V. Stornelli, G. Barile, G. Pennazza, M. Santonico: CCII-Based Linear Ratiometric Capacitive Sensing by Analog Read-Out Circuits. *Convegno Nazionale Sensori*; 02/2018, DOI:10.1007/978-3-319-55077-0_50

- Mirco Muttillio, Luca Di Battista, Tullio De Rubeis, Iole Nardi, Dario Ambrosini, Domenica Paoletti, Vincenzo Stornelli, Rocco Alaggio: Automatic indoor monitoring system for structural health. 18th CIRIAF National Congress, Sustainable Development, Human Health and Environmental Protection, Perugia; 01/2018
- Gianluca Barile, Giuseppe Ferri, Alfiero Leoni, Mirco Muttillio, Vincenzo Stornelli, Marco Caldari, Marco Palombini, Franco Ripa: Integrable Sensor System for Live Monitoring of Loudspeaker Performances. AISEM Annual Conference on Sensors and Microsystems; 01/2018, DOI:10.1007/978-3-319-66802-4_1
- Alfiero Leoni, Leonardo Pantoli, Zlatica Marinkovic, Vincenzo Stornelli, Giorgio Leuzzi: An Approach for AI-Based Filters Design by Means of Neural Networks. 2017 International Conference on Telecommunication in Modern Satellite, Cable and Broadcasting Services, Niš, Serbia; 10/2017, DOI:10.1109/TELSKS.2017.8246294
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