

Curriculum vitae di Salvatore Baglio

Salvatore Baglio Si è laureato in Ingegneria Elettronica il 19 Luglio 1990 ed ha conseguito il Dottorato di Ricerca in Ingegneria Elettrica nel 1994 presso l'Università di Catania.

Attualmente è Professore Ordinario di Misure Elettriche ed Elettroniche (settore Scientifico Disciplinare Ing-Inf-07) presso il Dipartimento di Ingegneria Elettrica Elettronica e Informatica (DIEEI) dell'Università di Catania.

Il prof. Baglio insegna "Electrical and Electronic Measurement" e "Micro e nano sensori" per i corsi di Laurea Magistrale in Electrical Engineering (LM28) e Ingegneria Elettronica (LM29) dell'Università di Catania.

Il Prof. Baglio è stato Associate Editor della rivista IEEE Transaction on Circuits and Systems negli anni 2002, 2003 e 2004, Distinguished Lecturer per la IEEE Circuit and System Society per l'anno 2004. Associate Editor della rivista IEEE Transaction on Instrumentation and Measurement. Componente del consiglio di amministrazione della IEEE Sensor Council, componente del consiglio di amministrazione della IEEE Instrumentation and Measurement Society nel quale ha ricoperto il ruolo di Vice President Education.

Il prof Baglio è Fellow della IEEE Society.

Attualmente il Prof. Baglio è Associate Editor in Chief della Rivista IEEE Transaction on Instrumentation and Measurements e Executive Vice President della IEEE Instrumentation and Measurement Society.

L'attività di ricerca del Prof. Baglio è indirizzata allo studio ed alla realizzazione di trasduttori MEMS innovativi e microsensori integrati, allo studio di metodologie e materiali con caratteristiche non lineari per applicazioni ai sistemi di trasduzione. Il Prof. Baglio coordina ed ha coordinato diversi progetti di ricerca relativi allo sviluppo di sensori e sistemi di misura (Sensori MEMS, magnetometri, Sensori di campo elettrico, biosensori, ...) finanziati da aziende private e enti pubblici nazionali ed internazionali (Commissione Europea, Office of Naval Research, MIUR, Ministero della Difesa).

Nel 2009 il Prof. Baglio ha costituito, e tuttora coordina, presso il DIEEI un laboratorio per lo sviluppo e la fabbricazione e la caratterizzazione di micro e nano sistemi "NanoTechLab".

L'attività di ricerca dell'Ing. Baglio si è concretizzata in numerose pubblicazioni scientifiche, comprendenti memorie congressi internazionali, articoli su riviste scientifiche internazionali, contributi in libri, libri e brevetti internazionali.



**Elenco dei titoli e delle pubblicazioni
scientifiche**

Settore Concorsuale:09/E4 - MISURE

Prima Fascia

Salvatore BAGLIO

Posizione accademica

Settore Scientifico Disciplinare:	ING-INF/07 - Misure elettriche e elettroniche
Qualifica:	Professore Ordinario
Anzianità nel ruolo:	01/11/2017
Sede Universitaria:	Università degli Studi di CATANIA
Struttura di appartenenza (dipartimento o altro):	Ingegneria Elettrica Elettronica e Informatica (Dieei)

Posizioni ricoperte precedentemente nel medesimo ateneo o in altri

Periodo	Fascia	Ateneo
13/03/1996	Ricercatore Universitario	Università degli Studi di CATANIA
01/03/2002	Professore II Fascia	Università degli Studi di CATANIA
01/11/2017	Professore I Fascia	Università degli Studi di CATANIA

Pubblicazioni scientifiche

1	2018	<p>Articolo in rivista</p> <p>Trigona, Carlo, SINATRA, VALENTINA MARIA, Ando, Bruno, Baglio, Salvatore, Bulsara, Adi R., Mostile, Giovanni, Nicoletti, Alessandra, Zappia, Mario (2018). Measurements of Iron Compound Content in the Brain Using a Flexible Core Fluxgate Magnetometer at Room Temperature. IEEE TRANSACTIONS ON INSTRUMENTATION AND MEASUREMENT, p. 971-980, ISSN: 0018-9456, doi: 10.1109/TIM.2018.2791218</p>
2	2018	<p>Articolo in rivista</p> <p>Ando, Bruno, Baglio, Salvatore, Marletta, Vincenzo, Pistorio, Antonio, Dibilio, Valeria, Mostile, Giovanni, Nicoletti, Alessandra, Zappia, Mario (2018). A Wearable Device to Support the Pull Test for Postural Instability Assessment in Parkinson's Disease. IEEE TRANSACTIONS ON INSTRUMENTATION AND MEASUREMENT, vol. 67, p. 218-228, ISSN: 0018-9456, doi: 10.1109/TIM.2017.2753478</p>
3	2018	<p>Contributo in Atti di convegno</p> <p>Andò, Bruno, Baglio, Salvatore, Bulsara, Adi, Marletta, Vincenzo, Pistorio, Antonio (2018). Modeling investigation of a nonlinear vibrational energy harvester. In: Lecture Notes in Electrical Engineering. vol. 431, p. 249-257, Springer Verlag, ISBN: 9783319550763, ita, 2016, doi: 10.1007/978-3-319-55077-0_33</p>
4	2018	<p>Abstract in Atti di convegno</p> <p>Ando, B., Baglio, S., Crispino, R., Marletta, V., Dibilio, V., Mostile, G., Nicoletti, A., Zappia, M. (2018). A pressure measurement for pull test validation in postural instability assessment. In: 2018 IEEE Sensors Applications Symposium, SAS 2018 - Proceedings. vol. 2018-, p. 1-5, Institute of Electrical and Electronics Engineers Inc., ISBN: 9781538620922, kor, 2018, doi: 10.1109/SAS.2018.8336745</p>
5	2017	<p>Articolo in rivista</p> <p>Ando' B, Baglio S, Bulsara AR, Marletta V, Pistorio A (2017). Low-cost inkjet printing technology for the rapid prototyping of transducers. SENSORS, vol. 17, p. 1-11, ISSN: 1424-8220</p>
6	2017	<p>Articolo in rivista</p> <p>Beninato A, Sinatra V, Tosto G, Castagna ME, Petralia S, Conoci S, Baglio S (2017). Inductive Integrated Biosensor With Extended Operative Range for Detection of Magnetic Beads for Magnetic Immunoassay. IEEE TRANSACTIONS ON INSTRUMENTATION AND MEASUREMENT, vol. 66, p. 348-359, ISSN: 0018-9456, doi: 10.1109/TIM.2016.2619000</p>

7	2017	<p>Articolo in rivista</p> <p>Trigona C, Sinatra V, Ando' B, Baglio S, Bulsara AR (2017). Flexible Microwire Residence Times Difference Fluxgate Magnetometer. IEEE TRANSACTIONS ON INSTRUMENTATION AND MEASUREMENT, vol. 66, p. 559-568, ISSN: 0018-9456, doi: 10.1109/TIM.2016.2644918</p>
8	2017	<p>Articolo in rivista</p> <p>Ando B, Baglio S, Marletta V, Pistorio A, Bulsara AR (2017). Performance Investigation of a Nonlinear Energy Harvester With Random Vibrations and Subthreshold Deterministic Signals. IEEE TRANSACTIONS ON INSTRUMENTATION AND MEASUREMENT, vol. 66, p. 992-1001, ISSN: 0018-9456, doi: 10.1109/TIM.2017.2649998</p>
9	2017	<p>Articolo in rivista</p> <p>Ando' B, Baglio S, Bulsara AR, Marletta V, Pistorio A. (2017). Investigation of a Nonlinear Energy Harvester. IEEE TRANSACTIONS ON INSTRUMENTATION AND MEASUREMENT, vol. 66, p. 1067-1075, ISSN: 0018-9456, doi: 10.1109/TIM.2017.2663178</p>
10	2017	<p>Articolo in rivista</p> <p>Trigona C, Ando B, Baglio S, La Rosa R, Zoppi G (2017). Sensors for Kinetic Energy Measurement Operating on "Zero-Current Standby". IEEE TRANSACTIONS ON INSTRUMENTATION AND MEASUREMENT, vol. 66, p. 812-820, ISSN: 0018-9456, doi: 10.1109/TIM.2016.2644838</p>
11	2017	<p>Contributo in Atti di convegno</p> <p>Andò, B., Baglio, S., Marletta, V., Valastro, A., Pistorio, A., Trigona, C. (2017). A friction less accelerometer exploiting a magnetic levitating mechanism and an inductive readout strategy. In: I2MTC 2017 - 2017 IEEE International Instrumentation and Measurement Technology Conference, Proceedings. p. 1-5, Institute of Electrical and Electronics Engineers Inc., ISBN: 9781509035960, Politecnico di Torino, ita, 2017, doi: 10.1109/I2MTC.2017.7969961</p>
12	2017	<p>Contributo in Atti di convegno</p> <p>Ando, B, Baglio, S, Marletta, V, Valastro, A (2017). A Tilt Compensated Haptic Cane for Obstacle Detection. In: Ambient Assisted Living, Italian Forum 2016. vol. 426, p. 141-151, GEWERBESTRASSE 11, CHAM, CH-6330, SWITZERLAND:SPRINGER INTERNATIONAL PUBLISHING AG, doi: 10.1007/978-3-319-54283-6_11</p>
13	2017	<p>Contributo in Atti di convegno</p> <p>Ando' B, Baglio S, Marietta V, Pistorio A, Dibilio V, Mostile G, Nicoletti A, Zappia M (2017). A multisensor architecture for the assessment of postural sway in elderly and people with neurological disease. In: 2017 IEEE Sensors Applications Symposium (SAS). p. 1-5</p>
14	2017	<p>Contributo in Atti di convegno</p> <p>Ando' B, Baglio S., Marietta V., Pistorio A. and Bulsara AR (2017). Preliminary investigation of a mixed inductive-piezoelectric energy harvester from human walking. In: IEEE Sensors Applications Symposium (SAS). p. 1-5</p>

15	2017	<p>Abstract in Atti di convegno</p> <p>Trigona, C., Sinatra, V., Andò, B., Baglio, S., Mostile, G., Nicoletti, A., Zappia, M., Bulsara, A. R. (2017). RTD-fluxgate sensor for measurements of metal compounds in neurodegenerative diseases. In: I2MTC 2017 - 2017 IEEE International Instrumentation and Measurement Technology Conference, Proceedings. p. 1-5, Institute of Electrical and Electronics Engineers Inc., ISBN: 9781509035960, Politecnico di Torino, ita, 2017, doi: 10.1109/I2MTC.2017.7969672</p>
16	2016	<p>Articolo in rivista</p> <p>Ando' B, Baglio S, Lombardo CO, Marletta V (2016). A Multisensor Data-Fusion Approach for ADL and Fall classification. IEEE TRANSACTIONS ON INSTRUMENTATION AND MEASUREMENT, vol. 65, p. 1960-1967, ISSN: 0018-9456, doi: 10.1109/TIM.2016.2552678</p>
17	2016	<p>Articolo in rivista</p> <p>Trigona C, Ando' B, Baglio S. (2016). Fabrication and Characterization of an MOEMS Gyroscope Based on Photonic Bandgap Materials. IEEE TRANSACTIONS ON INSTRUMENTATION AND MEASUREMENT, vol. 65, p. 2840-2852, ISSN: 0018-9456, doi: 10.1109/TIM.2016.2608078</p>
18	2016	<p>Articolo in rivista</p> <p>Ando' B, Baglio S, Trigona C (2016). Analysis, design and experimental characterization of diode-less transducers for DC-to-DC multiplication. SENSORS AND ACTUATORS. A, PHYSICAL, vol. 249, p. 199-206, ISSN: 0924-4247, doi: 10.1016/j.sna.2016.08.014</p>
19	2016	<p>Articolo in rivista</p> <p>Ando' B, Baglio S, Beninato A (2016). Investigations into a Planar Inductive Readout Strategy for the Monitoring of Ferrofluid Carriers. IEEE TRANSACTIONS ON INSTRUMENTATION AND MEASUREMENT, vol. 65, p. 201-207, ISSN: 0018-9456, doi: 10.1109/TIM.2015.2476276</p>
20	2016	<p>Articolo in rivista</p> <p>Ando' B, Baglio S, Lombardo CO, Marletta V, Pistorio A (2016). A Low-Cost Accelerometer Developed by Inkjet Printing Technology. IEEE TRANSACTIONS ON INSTRUMENTATION AND MEASUREMENT, vol. 65, p. 1242-1248, ISSN: 0018-9456, doi: 10.1109/TIM.2015.2490998</p>
21	2016	<p>Contributo in Atti di convegno</p> <p>Trigona C, Ando' B, Sinatra V, Vacirca C, Rossino E, Palermo L, Kurukunda S, Baglio S (2016). Implementation and characterization of a smart parking system based on 3-axis magnetic sensors. In: proceeding of I2MTC 2016. p. 1-6, Tappei, Taiwan, May 23-26, 2016, doi: DOI: 10.1109/I2MTC.2016.7520379</p>

22	2016	Contributo in Atti di convegno Ando' B, Baglio S, Frisenna S, Lombardo C O, Marietta V (2016). A methodology for the compensation of compass heading estimation for the effect of magnetic influences. In: 2016 IEEE International Instrumentation and Measurement Technology Conference Proceedings. p. 1-5, Tappei, Taiwan, May 23-26, 2016, doi: DOI: 10.1109/I2MTC.2016.7520378
23	2016	Contributo in Atti di convegno TRIGONA C, SINATRA V, BENINATO A, ANDO' B, BAGLIO S, BULSARA AR (2016). Flexible microwire RTD-Fluxgate magnetometers. In: proceeding of SAS2016. p. 1-3, Catania, Italy, April 20-22, 2016
24	2016	Contributo in Atti di convegno Trigona C, Ando' B, Baglio S, Rosa RL, Zoppi G (2016). Vibration-based transducer for zero-energy standby applications. In: SAS 2016 - Sensors Applications Symposium, Proceedings. p. 53-56, Catania, Italy, April 20-22, 2016, doi: 10.1109/SAS.2016.7479817
25	2016	Contributo in Atti di convegno Ando' B, Baglio S, Marletta V, Pistorio A, Bulsara AR (2016). A low threshold bistable device for energy scavenging from vibrations. In: SAS 2016 - Sensors Applications Symposium, Proceedings. p. 48-52, Italy, doi: 10.1109/SAS.2016.7479816
26	2016	Contributo in Atti di convegno Andò B, Baglio S, Lombardo C, Marietta C, Dibilio V, Mostile G, Nicoletti A, Zappia M, Neurologica C (2016). A multisensor approach to perform instrumented postural instability tests for patient with Parkinson disease. In: SAS 2016 - Sensors Applications Symposium, Proceedings. p. 166-170, Catania, 20-22/04/2016, doi: 10.1109/SAS.2016.7479839
27	2016	Contributo in Atti di convegno Ando' B, Baglio S, Marletta V, Pistorio A, Bulsara AR (2016). Performance investigation of a nonlinear vibrational energy harvester with band limited noise. In: Proceedings of I2MTC2016. 7520382, Tappei, Taiwan, May 23-26, 2016, doi: 10.1109/I2MTC.2016.7520382
28	2015	Articolo in rivista Castagna, M.E., Petralia, S., Amore M.G, Cappello E, Beninato A, Sinatra V, Baglio S, Conoci S (2015). A novel silicon based mags-biosensor for nucleic acid detection by magnetoelectronic transduction . SENSING AND BIO-SENSING RESEARCH, vol. 6, p. 85-89, ISSN: 2214-1804, doi: 10.1016/j.sbsr.2015.10.003
29	2015	Articolo in rivista ANDO', Bruno, BAGLIO, Salvatore, Pistorio A, TINA, Giuseppe Marco, Ventura C. (2015). Sentinella: Smart Monitoring of Photovoltaic Systems at Panel Level. IEEE TRANSACTIONS ON INSTRUMENTATION AND MEASUREMENT, vol. 64, p. 2188-2199, ISSN: 0018-9456, doi: 10.1109/TIM.2014.2386931

30	2015	Articolo in rivista MUSUMECI RE, MARLETTA V, ANDO' B, BAGLIO S, FOTI E (2015). Ferrofluid measurements of bottom velocities and shear stresses. JOURNAL OF HYDRODYNAMICS, vol. 27-1, p. 150-158, ISSN: 1001-6058, doi: 10.1016/S1001-6058(15)60467-X
31	2015	Articolo in rivista Baglio S, Cantelli L., Giusa F., Muscato G., Noto A. (2015). Intelligent Prodder: implementation of measurement methodologies for material recognition and classification with humanitarian demining applications. IEEE TRANSACTIONS ON INSTRUMENTATION AND MEASUREMENT, vol. 64, p. 2217-2226, ISSN: 0018-9456, doi: 10.1109/TIM.2014.2386917
32	2015	Articolo in rivista Ando B, Baglio S, Bulsara AR, Marletta V, Ferrari V, Ferrari M (2015). A Low-Cost Snap-Through Buckling Inkjet Printed Device for Vibrational Energy Harvesting. IEEE SENSORS JOURNAL, vol. 15, p. 3209-3220, ISSN: 1530-437X, doi: 10.1109/JSEN.2014.2386392
33	2015	Articolo in rivista MUSUMECI R, Marletta V, Andò B, Baglio S, Foti E (2015). Measurement of wave near-bed velocity and bottom shear stress by ferrofluids. IEEE TRANSACTIONS ON INSTRUMENTATION AND MEASUREMENT, vol. 64, p. 1232-1239, ISSN: 0018-9456, doi: 10.1109/TIM.2014.2359521
34	2015	Articolo in rivista Ando B, Baglio S, Lombardo CO, Marletta V (2015). An event polarized paradigm for ADL detection in AAL context. IEEE TRANSACTIONS ON INSTRUMENTATION AND MEASUREMENT, vol. 64, p. 1814-1825, ISSN: 0018-9456, doi: 10.1109/TIM.2014.2385144
35	2015	Articolo in rivista Ando' B, Baglio S, Marletta V, Valastro A (2015). A Haptic Solution to Assist Visually Impaired in Mobility Tasks. IEEE TRANSACTIONS ON HUMAN-MACHINE SYSTEMS, vol. 45-5, p. 641-646, ISSN: 2168-2291, doi: 10.1109/THMS.2015.2419256
36	2015	Articolo in rivista Ando' B, Baglio S, Lombardo CO, Marletta V (2015). Smart homecare technologies for the visually impaired: recent advances. SMART HOMECARE TECHNOLOGY AND TELEHEALTH, vol. 3, p. 9-16, ISSN: 2253-1564, doi: 10.2147/SHTT.S56167
37	2015	Contributo in volume (Capitolo o Saggio) Andò, B., Baglio, S., Marletta, V. (2015). A multi-sensor smart system for volcanic ash monitoring. In: Henry LeungSubhas Chandra Mukhopadhyay. Smart Sensors, Measurement and Instrumentation. vol. 13, p. 51-77, Springer International Publishing, ISBN: 978-3-319-12891-7, doi: 10.1007/978-3-319-12892-4_3

38	2015	Contributo in Atti di convegno TRIGONA C, MAIORCA F, ANDO' B, BAGLIO S (2015). Development of integrated vibratory-gyroscopes based on photonic bandgap materials. In: 2nd IEEE International Workshop on Metrology for Aerospace, MetroAeroSpace 2015 - Proceedings. p. 114-117, Benevento, Italy, 2015, doi: 10.1109/MetroAeroSpace.2015.7180637
39	2015	Contributo in Atti di convegno Trigona C, Noto A, Ando' B, Baglio S (2015). Novel mechanical transducers for switched capacitor circuits. In: SAS 2015 - 2015 IEEE Sensors Applications Symposium, Proceedings. p. 1-4, Zadar; Croatia,, April 13-15 2015, doi: DOI: 10.1109/SAS.2015.7133655
40	2015	Contributo in Atti di convegno Ando' B, Baglio S, Beninato A, Maiorca F, Trigona C (2015). 'Vibration driven' mechanical switches: A novel transduction methodology with applications to DC-DC 'diode-less' voltage multipliers. In: proceeding of I2MTC 2015. p. 1779-1782, Pisa - Italy, May 11-15, 2015, doi: 10.1109/I2MTC.2015.7151550
41	2015	Contributo in Atti di convegno ANDO', Bruno, BAGLIO, Salvatore, Bulsara AR, Marletta V, Pistorio A. (2015). Experimental and theoretical investigation of a nonlinear vibrational energy harvester. In: Procedia Engineering. PROCEEDIA ENGINEERING, vol. 120, p. 1024-1027, ISSN: 1877-7058, doi: 10.1016/j.proeng.2015.08.701
42	2015	Brevetto Bulsara A R, Baglio S, Ando' B, Antoci F, Trigona C, Stocks N, Nikitin A (2015). Injection locked nonlinear dynamic system. 9,140,765
43	2014	Articolo in rivista Ando' B, Baglio S, Marletta V (2014). Selective Measurement of Volcanic Ash Flow-Rate. IEEE TRANSACTIONS ON INSTRUMENTATION AND MEASUREMENT, vol. 63-5, p. 1356-1362, ISSN: 0018-9456, doi: 10.1109/TIM.2013.2283587
44	2014	Articolo in rivista Giusa F, Maiorca F, Noto A, Bulsara A, Andò B, Baglio S, Trigona C. (2014). A diode-less mechanical voltage multiplier: A novel transducer for vibration energy harvesting. SENSORS AND ACTUATORS. A, PHYSICAL, vol. 212, p. 34-41, ISSN: 0924-4247, doi: 10.1016/j.sna.2014.03.017
45	2014	Articolo in rivista Trigona C, Andò B, Baglio S (2014). Design, fabrication, and characterization of BESOI-accelerometer exploiting photonic bandgap materials. IEEE TRANSACTIONS ON INSTRUMENTATION AND MEASUREMENT, vol. 63, p. 702-710, ISSN: 0018-9456, doi: 10.1109/TIM.2013.2277534

46	2014	Articolo in rivista Antoci F, Ando' B, Trigona C, Bulsara AR, Nikitin A, Stocks NG, Baglio S (2014). Injection Locking in Coupled Core Fluxgate Magnetometers: Exploiting Nonlinearity to Enhance Sensitivity to Weak, Low Frequency, Target Magnetic Fields. IEEE SENSORS JOURNAL, vol. 14, p. 554-562, ISSN: 1530-437X, doi: 10.1109/JSEN.2013.2283579
47	2014	Articolo in rivista Andò B, Baglio S, Bulsara A R, Marletta V (2014). A bistable buckled beam based approach for vibrational energy harvesting. SENSORS AND ACTUATORS. A, PHYSICAL, vol. 211, p. 153-161, ISSN: 0924-4247, doi: 10.1016/j.sna.2013.12.027
48	2014	Articolo in rivista Vitellaro G, L'Episcopo G, Trigona C, Ando' B, Baglio S (2014). A compliant MEMS device for out-of-plane displacements with thermo-electric actuation. JOURNAL OF MICROELECTROMECHANICAL SYSTEMS, vol. 23-3, p. 661-671, ISSN: 1057-7157, doi: 10.1109/JMEMS.2013.2283520
49	2014	Articolo in rivista ANDO', Bruno, BAGLIO, Salvatore, Lombardo CO (2014). RESIMA: an assistive paradigm to support weak people in indoor environments. IEEE TRANSACTIONS ON INSTRUMENTATION AND MEASUREMENT, vol. 63, p. 2522-2528, ISSN: 0018-9456, doi: 10.1109/TIM.2014.2320396
50	2014	Articolo in rivista Ando' B, Baglio S, Pistorio A (2014). A Smart Multi-Sensor Approach to Monitoring Weak People in Indoor Environments. JOURNAL OF SENSOR TECHNOLOGY, vol. 4-1, p. 24-35, ISSN: 2161-122X
51	2014	Contributo in Atti di convegno Baglio S, Cantelli L, Giusa F, Muscato G, Noto A (2014). The development of an intelligent manual prodder for material recognition. In: 11th International Symposium on Humanitarian Demining coupled with the 12th IARP WS HUDEM. Zadar, Croatia, 23-25 April 2014
52	2014	Contributo in Atti di convegno TRIGONA C, ANDO' B, BAGLIO S (2014). Nonlinear behaviors of micromachined SOI devices for energy harvesting application. In: proceeding of 1st International Symposium on Energy Challenges and Mechanics. Aberdeen, United Kingdom, 8-10 July 2014
53	2014	Contributo in Atti di convegno ANDO', Bruno, BAGLIO, Salvatore, BENINATO A, L'EPISCOPO G, TRIGONA, CARLO, BULSARA A. R. (2014). A review on RTD-Fluxgate Magnetometers: from "single" to "coupled core" and toward novel systems with innovative materials. In: Sensors. vol. 162, p. 283-286, Springer New York, ISBN: 978-1-4614-3859-5, doi: 10.1007/978-1-4614-3860-1_50

54	2014	Contributo in Atti di convegno Baglio S, Cantelli L, Giusa F, Muscato G, Noto A (2014). Outdoor validation of an intelligent prodder for humanitarian demining with a mobile manipulator. In: Mobile Service Robotics, Proceeding of the 17th CLAWAR 2014 conference. p. 297-304, World Scientific Publishing, ISBN: 978-981-4623-34-6, Poznan (Poland)
55	2014	Contributo in Atti di convegno TRIGONA C, GIUSA F, MAIORCA F, NOTO A, ANDO' B, BAGLIO S (2014). Anti-phase coupled bistable transducers: A review of recent progress. In: proceeding of SAS2014. p. 166-169, Queenstown, New Zealand, February 18-20 2014, doi: 10.1109/SAS.2014.6798939
56	2014	Contributo in Atti di convegno TRIGONA C, MAIORCA F, GIUSA F, NOTO A, ANDO' B, BAGLIO S (2014). Performance characterization of different nonlinear-transduction mechanisms for piezoelectric energy harvesting. In: proceeding of I2MTC2014. p. 1148-1151, Montevideo; Uruguay, May 12-15 2014, doi: 10.1109/I2MTC.2014.6860923, 2014
57	2014	Contributo in Atti di convegno B. Andò, S. Baglio, V. Marletta, E. Foti, Musumeci R (2014). Measurement of bottom velocities and shear stress by ferrofluids at the sea bottom. In: 2014 IEEE International Instrumentation and Measurement Technology Conference. p. 728-731, Montevideo, Uruguay, May 12-15,, doi: 10.1109/I2MTC.2014.6860838
58	2014	Contributo in Atti di convegno Baglio S., Cantelli L., Giusa F., Muscato G., Noto A. (2014). A novel smart prodder with sensor feedback for material recognition in humanitarian demining applications. In: 13th IEEE SENSORS Conference. p. 779-782, Valencia Spain, 2 November 2014 through 5 November 2014, doi: 10.1109/ICSENS.2014.6985115
59	2013	Articolo in rivista Ando B, Baglio S, Marietta V, Medico S (2013). A smart multisensor system for volcanic ash fall-out monitoring. SENSORS AND ACTUATORS. A, PHYSICAL, vol. 202, p. 13-22, ISSN: 0924-4247, doi: 10.1016/j.sna.2013.03.027
60	2013	Articolo in rivista Giusa F, Giuffrida A, TRIGONA, CARLO, ANDO', Bruno, Bulsara AR, BAGLIO, Salvatore (2013). Random Mechanical Switching Harvesting on Inductor": A novel approach to collect and store energy from weak random vibrations with zero voltage threshold. SENSORS AND ACTUATORS. A, PHYSICAL, vol. 198, p. 35-45, ISSN: 0924-4247, doi: 10.1016/j.sna.2013.04.018
61	2013	Articolo in rivista Maiorca F, Giusa F, Trigona C, Ando' B, Bulsara AR, Baglio S (2013). Diode-less mechanical H-bridge rectifier for "zero threshold" vibration energy harvesters. SENSORS AND ACTUATORS. A, PHYSICAL, vol. 201-15, p. 246-253, ISSN: 0924-4247, doi: 10.1016/j.sna.2013.07.021

62	2013	Articolo in rivista Ando' B, Baglio S, Beninato A (2013). A ferrofluid inclinometer with a Time Domain Readout strategy. SENSORS AND ACTUATORS. A, PHYSICAL, vol. 202, p. 57-63, ISSN: 0924-4247, doi: 10.1016/j.sna.2013.02.006
63	2013	Articolo in rivista Ando' B, Baglio S, Beninato A, Graziani S, Pagano F, Umana E (2013). A Seismic Sensor Based on IPMC Combined With Ferrofluids. IEEE TRANSACTIONS ON INSTRUMENTATION AND MEASUREMENT, vol. 62, p. 1292-1298, ISSN: 0018-9456, doi: 10.1109/TIM.2012.2232473
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Titoli

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dal 01-11-2001 al 01-12-2002
- New microcontroller architectures for Intellignet Control Units” (Nuove architetture di microcontrollore sul concetto di Intelligent Control Unit-ICU”, Italian Ministero Istruzione Università Ricerca - MIUR – Progetti FAR, L. 297
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- Innovative solutions for enhanced energy harvesting from broadband and low-frequency vibrations in microsystems - MIUR Progetti di Ricerca di Interesse Nazionale, Bando 2009
dal 01-01-2010 al 31-12-2011
- Development of innovative integrated transducers with multiferroic materials - Office of Naval Research
dal 01-01-2010 al 31-12-2011
- Microsensors for weak magnetic fields measurements in the in-vivo characterizaton of metal uptake in neurodegenerative processes - Università di Catania
dal 01-01-2016 al 31-12-2017

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