Alessandro Depari's Curriculum Vitae

Alessandro Depari received the M.Sc. Degree in *Electronics Engineering* and the Ph.D. Degree in *Electronic Instrumentation* from the University of Brescia, Brescia, Italy, in 2002 and 2006, respectively. Since 2007, he has been Assistant Professor and, since 2017, Associate Professor with the Department of Information Engineering, University of Brescia, in the field of electrical and electronic measurements.

From 2004 to 2009, he was appointed as assistant of the *Fundamentals of Digital Electronics* course for the B.Sc. Degree in *Information Engineering*.
Since the academic year 2010/11, he has been appointed as teacher of the *Logic Networks and Principles of Digital Electronics* module and, since the academic year 2015/16, of the *Complements of Digital Electronics and Microprocessors* module, within the *Digital Electronics* integrated course, for the B.Sc. Degree in *Electronics and Communication Engineering*.
From 2004 to 2018, he cooperated with teaching in the following courses/modules:

- *Electronic Systems for the Automation and PLC*, for the B.Sc. Degree in *Information Engineering*
- *Distributed Systems and PLC*, for the B.Sc. Degree in *Electronics and Communication Engineering*, *Information Engineering* and *Industrial Automation Engineering*
- *Systems for Industry and PLC*, for the B.Sc. Degree in *Electronics and Communication Engineering* and *Information Engineering*
- *Fundamentals of Digital Electronics* and *Fundamentals of Electronics*, for the B.Sc. Degree in *Information Engineering*
- *Design of Digital Electronic Systems*, for the M.Sc. Degree in *Electronics Engineering for Automation*
- *Instrumentation Laboratory for Automation*, for the M.Sc. Degree in *Industrial Automation Engineering*
- *Instrumentation for Industrial Automation*, for the M.Sc. Degree in *Electronics Engineering*

Since 2003, he was supervisor of more that 20 thesis works and tutor of one Ph.D. candidate.
Since 2011, he has been member of the Committee of the Ph.D. Programs in *Electronic Engineering, Sensors and Instrumentation* and in *Information Engineering*, at the University of Brescia.

His research activity includes: sensor signal conditioning and processing, in particular concerning chemical sensors for artificial olfactory systems; embedded systems based on microcontrollers, DSPs and FPGAs; the development of smart sensors and sensor networks for distributed measurement with industrial communication systems; design of methods and digital electronic circuits for numeric measurement instrumentation; design and development of systems for m-Health (mobile health) and IoT (Internet of Things) applications.

Since 2004, he has been cooperating with *PROFIBUS and PROFINET Competence Center*, the only one in Italy, located at the Engineering campus of University of Brescia, accredited by the PROFIBUS International association.
In July 2011, he has been Visiting Fellow in the School of Engineering Systems, Faculty of Built Environment and Engineering, Queensland University of Technology, Brisbane, Australia.
He worked and he is currently involved in numerous scientific research projects of local and national interest.

Since 2003, he has been member of the Italian Associations SIE (Italian Society of Electronics - formerly Group of Electronics, GE) and GMEE (Group of Electrical and Electronic Measurements).
Since 2007, he has been member of IEEE and, since 2012, of the IEEE Instrumentation and Measurement Society.
In 2015, he has been elected as Secretary of the IEEE Italy Chapter IM - Instrumentation and Measurement.
In 2016, he has been elected as Counselor of the IEEE Student Branch of Brescia.

Since 2005, he has been serving as reviewer for several international journals, including: *Transactions on Instrumentation and Measurements* (IEEE), *Sensors Journal* (IEEE), *Sensors and Actuators A: Physical* (Elsevier), *Measurements Science and Technology* (IOP), *International Journal of Industrial Electronics and Drives* (Inderscience), *International Journal of Instrumentation Technology* (Inderscience), *Journal of Circuits, Systems, and Computers* (World Scientific), *Sensors* (MDPI).
He is Section Editor of the *IEEE International Workshop on Metrology for Industry 4.0 and IoT* Special Issue of the ACTA IMEKO journal.

Since 2012, he has been member of the Technical Program Committee of the *IEEE International Instrumentation and Measurement Technology Conference* (I2MTC).
Since 2013, he has been member of the Technical Program Committee of the *IEEE Sensors Applications Symposium* (SAS).
Since 2016, he has been member of the Steering Committee of the *IEEE Sensors Applications Symposium* (SAS).
He has been Special Session Chair of the *IEEE Sensors Applications Symposium* (SAS), Seoul, Republic of Korea, March 12-14, 2018.
He has been Technical Program Co-Chair of the *IEEE International Workshop on Metrology for Industry 4.0 and IoT*, Brescia, Italy, April 16-18, 2018.
He is Technical Program Co-Chair of the *IEEE Sensors Applications Symposium* (SAS), Sophia Antipolis, France, March 11-13, 2019.

He is author or co-author of more than 100 scientific works, published on international journals, books and conference proceedings. He is co-inventor of two international patents.

Recent publications on international journals

- A. Depari, A. Flammini, E. Sisinni, A. De Marcellis, G. Ferri, P. Mantenuto, "Fast, Versatile, and Low-Cost Interface Circuit for Electrochemical and Resistive Gas Sensor", IEEE Sensors Journal, February, 2014, Vol. 14, N. 2, pp. 315-323, ISSN 1530-437X, DOI 10.1109/JSEN.2013.2282122.
- P. Ferrari, A. Flammini, E. Sisinni, A. Depari, M. Rizzi, R. Exel, T. Sauter, "Timestamping and Ranging Performance for IEEE 802.15.4 CSS Systems", IEEE Trans. Instrumentation and Measurement, May, 2014, Vol. 63, N. 5, pp. 1244-1252, ISSN 0018-9456, DOI 10.1109/TIM.2013.2286958.
- P. Ferrari, E. Sisinni, A. Flammini, A. Depari, "Adding accurate timestamping capability to wireless networks for smart grids", Computer Networks, July, 2014, Vol. 67, pp. 1-13, ISSN 1389-1286, DOI 10.1016/j.comnet.2014.03.005.
- A. De Marcellis, G. Ferri, P. Mantenuto, A. Depari, A. Flammini, E. Sisinni, "A new 0.35μm CMOS electronic interface for wide range floating capacitive and grounded/floating resistive sensor applications", Microelectronics Journal, July, 2014, Vol. 45, N. 7, pp. 910-920, ISSN 0959-8324, DOI 10.1016/j.mejo.2014.03.011.
- E. Sisinni, A. Depari, A. Flammini, "Design and implementation of a wireless sensor network for temperature sensing in hostile environments", Sensors and Actuators A: Physical, January, 2016, Vol. 237, pp. 47-55, ISSN 0924-4247, DOI 10.1016/j.sna.2015.11.012.
- A. Depari, A. Flammini, M. Lavarini, E. Sisinni, "Enhanced software defined meter for smart utility networks", Computer Standards & Interfaces, November, 2016, Vol. 48, pp. 160-172, ISSN 0920-5489 , DOI 10.1016/j.csi.2016.06.005.
- A. Benussi, F. Di Lorenzo, V. Dell'Era, M. Cosseddu, A. Alberici, S. Caratozzolo, M. S. Cotelli, A. Micheli, L. Rozzini, A. Depari, A. Flammini, V. Ponzo, A. Martorana, C. Caltagirone, A. Padovani, G. Koch, B. Borroni, "Transcranial magnetic stimulation distinguishes Alzheimer's disease from Frontotemporal Dementia", Neurology, August, 2017, Vol. 89, N. 7, pp. 665-672, ISSN 0028-3878, DOI 10.1212/WNL.0000000000004232.
- C. Crema, A. Depari, A. Flammini, E. Sisinni, A. Vezzoli, P. Bellagente, "Virtual Respiratory Rate Sensors: An Example of A Smartphone-Based Integrated and Multiparametric mHealth Gateway", IEEE Trans. Instrumentation and Measurement, September, 2017, Vol. 66, N. 9, pp. 2456-2463, ISSN 0018-9456, DOI 10.1109/TIM.2017.2707838.
- A. Depari, E. Sisinni, A. Flammini, G. Ferri, V. Stornelli, G. Barile, F. R. Parente, "Autobalancing Analog Front End for Full-Range Differential Capacitive Sensing", IEEE Trans. Instrumentation and Measurement, April, 2018, Vol. 67, N. 4, pp. 885-893, ISSN 0018-9456, DOI 10.1109/TIM.2017.2785160.
- A. Padovani, A. Benussi, V. Cantoni, V. Dell'Era, M. S. Cotelli, S. Caratozzolo, R. Turrone, L. Rozzini, A. Alberici, D. Altomare, A. Depari, A. Flammini, G. B. Frisoni, B. Borroni, "Diagnosis of Mild Cognitive Impairment Due to Alzheimer's Disease with Transcranial Magnetic Stimulation", Journal of Alzheimer's Disease, August, 2018, Vol. 65, N. 1, pp. 221-230, ISSN 1875-8908, DOI 10.3233/JAD-180293.

The complete list of international publications and patents can be found in the IRIS-OPENBS archive.