


Associate Professor

Marco Mugnaini

EDUCATION	<p>Ph.D. in Reliability Availability and Logistics, University of Florence, Italy, 2003</p> <p>Laurea Degree (110/110 cum Laude) in Electronics Engineering with major in Non Linear Automatic Controls, University of Florence, Italy, 1999</p> <p>High School diploma from Liceo Scientifico Antonio Gramsci Firenze, Italy, 1993</p>
EXPERIENCE & RECOGNITIONS	<p>Since 2019 he is ASSOCIATE Professor at the DIISM Department of the University of Siena</p> <p>Since 2018 he has obtained the scientific qualification for FULL PROFESSORSHIP of Electronic Measurements 09/E4 (W3) from the Italian Ministry of Education.</p> <p>Since 2017 he has obtained the scientific qualification for PROFESSORSHIP from the AQU agency Catalan system Spain.</p> <p>Since 2014 he has obtained the scientific qualification for ASSOCIATE PROFESSORSHIP of Electronic Measurements 09/E4 (W2) from the Italian Ministry of Education.</p> <p>Assistant Professor at the University of Siena (Manager of the electronics training lab.), University of Siena, Italy, 2013-Present</p> <p>Faculty and Professor at the Electrical and Electronics Technology Dept. at the Higher Colleges of Technology Abu Dhabi, UAE, 2012 - 2013</p> <p>Assistant Professor at the University of Siena (Manager of the electronics training lab.), University of Siena, Italy, 2005-2012</p> <p>Co-founder of Sferatech SrL Company, Italy, 2019, www.sfera-tech.com</p> <p>Co-founder of the SENSIA SrL Company, Italy, 2008 www.sensia.it</p> <p>Co-founder of the DESMOWEB SrL Company, Italy, 2009 www.desmoweb.com</p> <p>Product Safety Engineer at General Electric (GE) Power System Oil and Gas Division with the responsibility of leading the design for safety of five production sites (AC Compressor, Gemini, Rotoflow, Thermodyn, PII), Florence, Italy, 2003-2005.</p> <p>Consultant for Borri Industrial Power Solutions S.p.A. 2002-2011</p> <p>Consultant for Astrid Energy Enterprises S.p.A. 1999-2000</p> <p>Teacher and Consultant for CETACE, Magnetek S.p.A. 1999-2000</p> <p>Teacher IFOA relating to areas of reliability for electronics and mechanics. 1999</p>

CERTIFICATIONS	<p>Certified as Labview Associate Developer</p>  <p>Green Belt Certified</p> <p>CAP (Change Acceleration Process) Certified</p>
MEMBERSHIPS	IEEE Senior Member
HONORS & AWARDS	<p>IEEE Instrumentation and Measurement Distinguished Lecturer</p> <p>In 2003 Marco Mugnaini received the award for the best National Ph.D. thesis in the maintenance context from CNIM (National Italian Center for Maintenance)</p>
SERVICE ACTIVITIES	<p>I&M Society Webinar on Reliability for Industrial Applications as IEEE Distinguished Lecturer 5th November 2020</p> <p>Special Session Organizer and Chair on Advanced Measurement Systems for Safety and Security of the IEEE MetroInd4.0&IoT 2020 Conference</p> <p>Visiting Professor at the “Applied Sciences faculty” Coburg University, Germany 2019.</p> <p>Visiting Professor at the “Halmstad University” Halmstad, Sweden, 2019.</p> <p>Visiting Professor at the “Applied Sciences faculty” Coburg University, Germany 2018.</p> <p>Keynote Speaker at IEEE Nanofim 2018 Conference, Mexico City, Mexico</p> <p>Keynote Speaker at IEEE IMCCC 2018 Conference, Harbin, China</p> <p>Special Session Organizer and Chair of the IEEE ISSE 2017 Conference</p> <p>Visiting Professor at the “Universitat Politècnica de Catalunya” (UPC) and teacher at Ph.D. program at UPC</p> <p>Lecturer at Politecnico di Milano 2016 for Ph.D. students on Reliability and Design for Safety subjects</p> <p>Research Collaborator with Meyer Children Hospital (reference Prof Elio Novembre) Florence</p> <p>Editor in Chief of the International Journal of Instrumentation Technology (IJIT)</p> <p>Associate Editor of the International Journal of Power Electronics and Drives</p> <p>Editorial Board of the “Safety” Journal MDPI since 2015</p> <p>Organizing committee member of IEEE student competition UAE, 2013</p> <p>Stirring Committee of IEEE student competition UAE, 2013</p> <p>Judges Coordinator of IEEE student competition UAE, 2013</p> <p>Director of the educational Electronics and Electronic Measurement Laboratory.</p> <p>2006 RAV member (Faculty auto evaluation board)</p> <p>Member of the Board of Electronic and Telecommunication Branch since 2010</p>

	<p>Associate Technical Program Chair for the following Conferences:</p> <p>IEEE Sensor application Symposium (IEEE SAS)</p> <p>IEEE Multi-Conference on Systems, Signals & Devices SSD</p> <p>IEEE Instrumentation and Measurement I2MTC</p> <p>Rector delegate for the Safety Manager Intra Faculty Regional Organization since 2010-2011</p> <p>Reviewer for IEEE Transaction on Instrumentation and Measurement, for IEEE Transaction on Neural Networks Journals, Reliability Engineering and System Safety, JCST and IEEE IMSC coordinator.</p> <p>Member of the Ph.D. School Board in Bionformatics University of Siena since 2008 and up to 2011</p>
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**TEACHING
EXPERIENCE**

Since 2013

He is with the Department of Information Engineering and Mathematics of the University of Siena where he holds the course of:

- Reliability and Design for Safety (a.y.s 2013-2019)
- Electronics (a.y. 2017/2019)

Since 2012

He is with the department of Electrical and Electronics Engineering of the Higher Colleges of Technology as faculty and is instructor of the following courses:

- Instrumentation and Control
- Electrical Maintenance and Testing
- Health and Safety
- Power system Analysis
- Power Generation and Distribution

Since 2005 He is with the Department of Information Engineering of the University of Study of Siena as Assistant Professor. During his career he had the ownership of the following classes in the Electronic and Telecommunication branch.

In charge of (Siena):

(a.y. 2004/2005) Electric and Electronic Measurements
(a.y. 2005/2006) Electric and Electronic Measurements
(a.y. 2006/2007) Electric and Electronic Measurements
(a.y. 2007/2008) Electronic Measurements Laboratory
(a.y. 2007/2008) Electric and Electronic Measurements
(a.y. 2008/2009) Electronic Measurements Laboratory
(a.y. 2008/2009) Electric and Electronic Measurements
(a.y. 2009/2010) Electric and Electronic Measurements
(a.y. 2010/2011) Reliability and Design for Safety

Support for (Siena):

(a.y. 2005/2006) Measurements for Automation
(a.y. 2006/2007) Measurements for Automation
(a.y. 2005/2006) Electronic Systems
(a.y. 2006/2007) Electronic Systems

Support for (Florence):

(a.y. 2000/2001) Reliability and Quality Control
(a.y. 2001/2002) Measurement for Diagnosis
(a.y. 2002/2003) Reliability and Quality Control

**INDUSTRIAL
PROJECTS &
PATENTS**

2017 Funded (Scientific responsible Proff. Vignoli and Fort) by National Railway Company RFI to develop two projects. One concerning the design of a drone-box for unmanned infrastructure monitoring and the other one to develop an advanced access door for a total amount of 200k€.

2016 Funded from BURT 2012 POR CREO for the STech project 400k€ overall project 6M€ for the development of new reliable sensing strategies in Gas Turbines.

2015 Funded by Isertech SpA with 50k€ (CNIT Contract Responsible Prof. Toccafondi) for the development and research of safe solution for the surveillance of railway crossing level passages through radar technologies.

2014 Scientific reference for the University of Siena of the founded project ATENE for 380k€ (overall project about 9M€) Regione Toscana Burt

2012 Funding for a four year project PerovSkite based Sensors Artificial Olfactory System (PSAOS responsible Prof. Fort) from US Army RDECOM ACQ CTR - W911NF (250000€)

2011 he started a project on smart grid jointly with Borri SpA received funding for 45000€.

2009-2010 founding for about 120000€ from General Electric for the development of torsion measurement systems and for the development of new displacement and chemical sensing systems.

Patents:

As indicated in the selected Publication list in 2008, in 2010 and 2015 respectively he developed together with other colleagues three patents (two nationals and one International) on a new kind of three electrode amperometric sensor for NOx detection and on a detector for allergies.

SELECTED PUBLICATIONS

BOOKS AND BOOKS CHAPTERS:

[B1] 2012 - Book Chapter

A. Fort, M. Mugnaini, S. Rocchi, V. Vignoli (2012). Surface State Models For Conductance Response Of Metal Oxide Gas Sensors During Thermal Transients. In: -. Chemical Sensors: Simulation and Modeling Volume 2: Conductometric-Type Sensors. vol. 2, p. 127-175, New York: Momentum Press, ISBN: 9781606503126, doi: 10.5643/9781606503140

JOURNALS & CONFERENCES (#190 Source Scopus)

Mugnaini, M., Addabbo, T., Fort, A., Elmi, A., Landi, E., Vignoli, V. Magnetic brakes material characterization under accelerated testing conditions (2020) Reliability Engineering and System Safety, 193, art. no. 106614, . <https://www.scopus.com/inward/record.uri?eid=2-s2.0-85071294431&doi=10.1016%2fj.ress.2019.106614&partnerID=40&md5=591fc0bd63c4e4f584edb2af215e2ebf>

DOI: 10.1016/j.ress.2019.106614

Addabbo, T., Fort, A., Moretti, R., Mugnaini, M., Vignoli, V. Analysis of a Circuit Primitive for the Reliable Design of Digital Nonlinear Oscillators (2019) PRIME 2019 - 15th Conference on Ph.D. Research in Microelectronics and Electronics, Proceedings, art. no. 8787773, pp. 189-192. <https://www.scopus.com/inward/record.uri?eid=2-s2.0-85071339106&doi=10.1109%2fPRIME.2019.8787773&partnerID=40&md5=ad2a9b46504a0fd826e3196c162d248e>

DOI: 10.1109/PRIME.2019.8787773

Fort, A., Panzardi, E., Vignoli, V., Landi, E., Mugnaini, M., Trigona, C. Performance Analysis of an AlN Humidity Sensor based on TiO₂ nanoparticles (2019) 2019 IEEE International Symposium on Measurements and Networking, M and N 2019 - Proceedings, art. no. 8805004, . <https://www.scopus.com/inward/record.uri?eid=2-s2.0-85072113118&doi=10.1109%2fIWMN.2019.8805004&partnerID=40&md5=bb78604d1787d73be2ca2b6180085ace>

DOI: 10.1109/IWMN.2019.8805004

Addabbo, T., Di Marco, M., Fort, A., Landi, E., Mugnaini, M., Vignoli, V., Ferretti, G. Instantaneous Rotation Speed Measurement System Based on Variable Reluctance Sensors for Torsional Vibration Monitoring (2019) IEEE Transactions on Instrumentation and Measurement, 68 (7), art. no. 8534416, pp. 2363-2373.

<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85056598753&doi=10.1109%2fTIM.2018.2877808&partnerID=40&md5=d2cbf3c0cecl1f3c13b536528db185fd3>

DOI: 10.1109/TIM.2018.2877808

Addabbo, T., Cataldo, G., Cevenini, G., Fort, A., Franchi, F., Moretti, R., Mugnaini, M., Scolletta, S., Vignoli, V.

A Measurement System to Estimate the Pleural Pressure from the CVP for Respiratory System Monitoring

(2019) IEEE Transactions on Instrumentation and Measurement, 68 (7), art. no. 8693892, pp. 2469-2478.

<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85067119624&doi=10.1109%2fTIM.2019.2909995&partnerID=40&md5=3c33d6a44220b81475264d631d0695a0>

DOI: 10.1109/TIM.2019.2909995

Addabbo, T., Fort, A., Mugnaini, M., Parri, L., Pinzi, M., Vignoli, V., Mvemba, P.K., Becatti, M., Barygina, V., Taddei, N., Fiorillo, C.

On the Suitability of Low-Cost Compact Instrumentation for Blood Impedance Measurements

(2019) IEEE Transactions on Instrumentation and Measurement, 68 (7), art. no. 8665961, pp. 2412-2424.

<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85067130011&doi=10.1109%2fTIM.2019.2899475&partnerID=40&md5=1dce22aa72bac0a142e93db6d9a2722c>

DOI: 10.1109/TIM.2019.2899475

Abrardo, A., Fort, A., Landi, E., Mugnaini, M., Panzardi, E., Pozzebon, A. Black Powder Flow Monitoring in Pipelines by Means of Multi-Hop LoRa Networks (2019) 2019 IEEE International Workshop on Metrology for Industry 4.0 and IoT, MetroInd 4.0 and IoT 2019 - Proceedings, art. no. 8792890, pp. 312-316.

<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85071599424&doi=10.1109%2fMETROI4.2019.8792890&partnerID=40&md5=da3eb14d0bd7157505dc35854ade0cd3>

DOI: 10.1109/METROI4.2019.8792890

Fort, A., Panzardi, E., Addabbo, T., Mugnaini, M., Vignoli, V., Trigona, C. Conditioning Circuit for Simultaneous Sensing and Actuation in Piezoelectric MEMS Resonators

(2019) SAS 2019 - 2019 IEEE Sensors Applications Symposium, Conference Proceedings, art. no. 8705996, .

<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85065914440&doi=10.1109%2fSAS.2019.8705996&partnerID=40&md5=2640191ffb6f68107a36cd1493e97600>

DOI: 10.1109/SAS.2019.8705996

Addabbo, T., Fort, A., Mecocci, A., Mugnaini, M., Parrino, S., Pozzebon, A., Vignoli, V.

A LoRa-based IoT Sensor Node for Waste Management Based on a Customized Ultrasonic Transceiver

(2019) SAS 2019 - 2019 IEEE Sensors Applications Symposium, Conference Proceedings, art. no. 8705980, .

<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85065905670&doi=10.1109%2fSAS.2019.8705980&partnerID=40&md5=a2f22a6793cdf7b3f946f8bd235c1d52>

DOI: 10.1109/SAS.2019.8705980

Addabbo, T., Fort, A., Mugnini, M., Vignoli, V., Parri, L., Allegorico, M., Ruggiero, M., Cioncolini, S.

Ion sensors: Application to combustion monitoring in gas turbines (2019) SAS 2019 - 2019 IEEE Sensors Applications Symposium, Conference Proceedings, art. no. 8706114, .

<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85065916021&doi=10.1109%2fSAS.2019.8706114&partnerID=40&md5=c04ea366085702a884c9f6628110c461>

DOI: 10.1109/SAS.2019.8706114

Addabbo, T., Fort, A., Mugnaini, M., Panzardi, E., Vignoli, V.

Measurement System Based on Electrostatic Sensors to Detect Moving Charged Debris with Planar-Isotropic Accuracy

(2019) IEEE Transactions on Instrumentation and Measurement, 68 (3), art. no. 8419738, pp. 837-844.

<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85050624064&doi=10.1109%2fTIM.2018.2853938&partnerID=40&md5=c4868d51fef143c0c94fcb9fc9c96ca1>

DOI: 10.1109/TIM.2018.2853938

Addabbo, T., Della Giovampaola, C., Fort, A., Mugnaini, M., Pozzebon, A., Toccafondi, A., Vignoli, V.

Target measurements influence on level crossing detection system safety determination

(2019) Measurement: Journal of the International Measurement Confederation, 135, pp. 547-554.

<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85058167221&doi=10.1016%2fj.measurement.2018.11.059&partnerID=40&md5=75da92b2ad35f90adef2c5802f09eade>

DOI: 10.1016/j.measurement.2018.11.059

Fort, A., Panzardi, E., Vignoli, V., Hjiri, M., Aida, M.S., Mugnaini, M., Addabbo, T.

Co₃O₄/Al-ZnO nano-composites: Gas sensing properties

(2019) Sensors (Switzerland), 19 (4), art. no. 760, .

<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85061857441&doi=10.3390%2fs19040760&partnerID=40&md5=7875c9c2aaa5d2e1b29b18db663084b1>

DOI: 10.3390/s19040760

Addabbo, T., Fort, A., Mugnaini, M., Vignoli, V.

YCoO₃ resistive gas sensors for the detection of NO₂ in 'resistance controlled mode'

(2019) Lecture Notes in Electrical Engineering, 539, pp. 61-68.

https://www.scopus.com/inward/record.uri?eid=2-s2.0-85061106663&doi=10.1007%2f978-3-030-04324-7_9&partnerID=40&md5=348371d4d7fa6e151c071089473a0124

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Addabbo, T., Fort, A., Mugnaini, M., Vignoli, V.
Low temperature NO₂ sensor based on YCoO₃ and TiO₂ nanoparticle composites
(2019) Lecture Notes in Electrical Engineering, 539, pp. 3-10.
https://www.scopus.com/inward/record.uri?eid=2-s2.0-85061082394&doi=10.1007%2f978-3-030-04324-7_1&partnerID=40&md5=e578a451f6fc634748e7b6379ae1d6fe

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Addabbo, T., Fort, A., Moretti, R., Mugnaini, M., Vignoli, V.
Lightweight true random bit generators in PLDs: Figures of merit and performance comparison
(2019) Proceedings - IEEE International Symposium on Circuits and Systems, 2019-May, art. no. 8702791, .
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85066795346&doi=10.1109%2fISCAS.2019.8702791&partnerID=40&md5=158f909cd5f4a52f5063188113de87b7>

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Addabbo, T., Fort, A., Mugnaini, M., Panzardi, E., Pozzebon, A., Vignoli, V.
A low power city-scale wireless sensor network for the monitoring of monumental structures
(2019) IMEKO International Conference on Metrology for Archaeology and Cultural Heritage, MetroArchaeo 2017, pp. 510-515.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85070519854&partnerID=40&md5=3cec1e6e597c240025a1ea4d33ed8c75>

Addabbo, T., Landi, E., Moretti, R., Mugnaini, M., Parri, L., Tani, M.
A distributed condition monitoring system for the non-invasive temperature measurement of heat fluids circulating in turbomachinery pipes based on self-powered sensing nodes
(2019) Lecture Notes in Electrical Engineering, 550 (9783030119720), pp. 343-348.
https://www.scopus.com/inward/record.uri?eid=2-s2.0-85066913482&doi=10.1007%2f978-3-030-11973-7_40&partnerID=40&md5=3ba22791ec67fafa4821d90b4300d31b

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Addabbo, T., Di Marco, M., Fort, A., Mugnaini, M., Takaloo, H., Vignoli, V.
A CMOS PUF circuit primitive based on a two-dimensional nonlinear dynamical system
(2019) Proceedings - IEEE International Symposium on Circuits and Systems, 2019-May, art. no. 8702670, .
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85066801038&doi=10.1109%2fISCAS.2019.8702670&partnerID=40&md5=1b6acf55dd54b4d72a8987fd74ad129e>

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Addabbo, T., Fort, A., Mugnaini, M., Takaloo, H., Vignoli, V., Petra, N.

Piecewise linear chaotic maps in current mode CMOS circuits: Nonlinear distortion analysis
(2019) Proceedings - IEEE International Symposium on Circuits and Systems, 2019-May, art. no. 8701879, .
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85066784270&doi=10.1109%2fISCAS.2019.8701879&partnerID=40&md5=08ba57cde196aa565365f29ee8cd5e05>

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Addabbo, T., Fort, A., Mugnaini, M., Panzardi, E., Pozzebon, A., Vignoli, V.
A city-scale IoT architecture for monumental structures monitoring
(2019) Measurement: Journal of the International Measurement Confederation, 131, pp. 349-357.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85053057149&doi=10.1016%2fj.measurement.2018.08.058&partnerID=40&md5=bf22c5351f0d7bcb548390e261a49b5d>

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Addabbo, T., Fort, A., Mugnaini, M., Parri, L., Parrino, S., Pozzebon, A., Vignoli, V.
A low-power IoT architecture for the monitoring of chemical emissions
(2019) Acta IMEKO, 8 (2), pp. 53-61.
https://www.scopus.com/inward/record.uri?eid=2-s2.0-85070447243&doi=10.21014%2facta_imeko.v8i2.642&partnerID=40&md5=e8be5539ecf6b97574acbc26cfb76189

DOI: 10.21014/acta_imeko.v8i2.642

Addabbo, T., Bardi, F., Cioncolini, S., Fort, A., Mugnaini, M., Parri, L., Vignoli, V.
Multi-sensors exhaust gas emission monitoring system for industrial applications
(2019) Lecture Notes in Electrical Engineering, 512, pp. 49-56.
https://www.scopus.com/inward/record.uri?eid=2-s2.0-85050407504&doi=10.1007%2f978-3-319-93082-4_7&partnerID=40&md5=f84e07cdd0f48419b45a7c03fa1799f6

DOI: 10.1007/978-3-319-93082-4_7

Addabbo, T., Bruzzi, M., Fort, A., Mugnaini, M., Vignoli, V.
Gas sensing properties of In₂O₃ nano-films obtained by low temperature pulsed electron deposition technique on alumina substrates
(2018) Sensors (Switzerland), 18 (12), art. no. 4410, .
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85058635302&doi=10.3390%2fs18124410&partnerID=40&md5=4d4062c6404c2b4e7f9c622830db2697>

DOI: 10.3390/s18124410

Addabbo, T., Fort, A., Landi, E., Tani, M., Mugnaini, M., Vignoli, V., Elmi, A.
Modular test bed for magnetic brakes characterization and durability testing
(2018) 4th IEEE International Symposium on Systems Engineering, ISSE 2018 - Proceedings, art. no. 8544432, .

<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85059974876&doi=10.1109%2fSysEng.2018.8544432&partnerID=40&md5=8e58d04a4c865c12dff74ec0f8786cdc>

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Fort, A., Mugnaini, M., Rocchi, S., Vignoli, V., Leone, G., Magnani, A., Nelli, N., Radano, G., Zarovni, N.
QCM Biosensors for the Detection of Tumor Released Exosomes
(2018) 2016 Nanotechnology for Instrumentation and Measurement, NANOfIM 2016, art. no. 8521429, .
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85057754467&doi=10.1109%2fNANOFIM.2016.8521429&partnerID=40&md5=f5a4e302fe803022e01927ad140ee4e9>

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Addabbo, T., Fort, A., Moretti, R., Mugnaini, M., Vignoli, V., Cataldo, G., Cevenini, G., Franchi, F.
A Novel Measurement System to Estimate the Trans-Pulmonary Pressure Exploiting the Central Venous Pressure and ECG Signals
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<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85053140533&doi=10.1109%2fMeMeA.2018.8438659&partnerID=40&md5=d4f4f959c25663e71b4ebadf14efcceb>

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Addabbo, T., Fort, A., Kapita, P., Mugnaini, M., Vignoli, V., Barygina, V., Becatti, M., Fiorillo, C., Taddei, N.
A Compact System for Blood Impedance Measurements for ROS Evaluation
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<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85053164007&doi=10.1109%2fMeMeA.2018.8438784&partnerID=40&md5=ef6f8ec9d043248319002ca671962b9f>

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Addabbo, T., Fort, A., Mugnaini, M., Parri, L., Parrino, S., Pozzebon, A., Vignoli, V.
An IoT Framework for the Pervasive Monitoring of Chemical Emissions in Industrial Plants
(2018) 2018 Workshop on Metrology for Industry 4.0 and IoT, MetroInd 4.0 and IoT 2018 - Proceedings, art. no. 8428325, pp. 269-273.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85052491172&doi=10.1109%2fMETROI4.2018.8428325&partnerID=40&md5=30866f65c92f181bdf55720d13d59f03>

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Addabbo, T., Bertocci, F., Fort, A., Mugnaini, M., Vignoli, V.
WO3 Nanograined chemosensor: A model of the sensing behavior
(2018) 2015 1st Workshop on Nanotechnology in Instrumentation and Measurement, NANOFIM 2015, art. no. 8425356, pp. 220-224.

<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85052214209&doi=10.1109%2fNANOFIM.2015.8425356&partnerID=40&md5=54cb1a8506dea9eeb68b94041427a0a>

DOI: 10.1109/NANOFIM.2015.8425356

Addabbo, T., Bertocci, F., Fort, A., Mugnaini, M., Panzardi, E., Vignoli, V., Cinelli, C.

A clearance measurement system based on on-component multilayer tri-axial capacitive probe

(2018) Measurement: Journal of the International Measurement Confederation, 124, pp. 575-581.

<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85040986057&doi=10.1016%2fj.measurement.2018.01.015&partnerID=40&md5=1e7e634fd64b21bde01b34a69a35141b>

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