

LIST OF PUBLICATIONS

Paper published on peer reviewed International Journals:

- [1] R. Lojacono, M. Re, M. Caciotta, F. Leccese, D. Petri, A. Moschitta, C. Pennarelli, G. Riccio, P. Daponte, S. Rapuano, D. Grimaldi, S. Graziani, S. Sangiovanni, "Perspectives of QoS Management Based on QoS for 3G Communication Systems", Kluwer Academic Publishers Wireless Personal Communication, Vol. 24, No. 2, 2003, pp. 249-273.
- [2] A. Moschitta, D. Petri, "Wideband Communication System Sensitivity to Overloading Quantization Noise", IEEE Trans. on Instrumentation and Measurement, vol. 52, No. 4, August 2003, pp. 1302-1307.
- [3] A. Moschitta, D. Petri, "Stochastic Properties of Quantization Noise in Memoryless Converters Affected by Integral Non-Linearity", IEEE Trans. on Instrumentation and Measurement, Vol. 53, No. 4, August 2004, pp. 1179-1184.
- [4] F. Stefani, A. Moschitta, P. Carbone, "CDMA System Sensitivity to Sigma-Delta A/D Conversion", IEEE Trans. on Instrumentation and Measurement, Vol. 54, No. 4, August 2005, pp. 1624-1629.
- [5] F.A.C. Alegria, A. Moschitta, P. Carbone, A. M. da Cruz Serra, D. Petri, "Effective ADC linearity testing using sinewaves", IEEE Trans. On Circuits and Systems I, Vol. 52, No. 7, July 2005 pp.1267-1275.
- [6] A. Sabatini, A. Moschitta, and P. Carbone "Sinewave Generation with On Board DAC Non-Linearity Compensation Using a Sigma-Delta Approach ," Measurement - Journal of the International Measurement Conference IMEKO, April 2006, Vol. 39 Issue 3, pp. 232-237.
- [7] F. Stefani, D. Macii, A. Moschitta, P. Carbone, D. Petri, "Fast Estimation of ADC Nonlinearities Using the Sinewave Histogram Test", Measurement - Journal of the International Measurement Conference IMEKO, April 2006, Vol. 39 Issue 3, pp. 252-257.
- [8] F. Stefani, D. Macii, A. Moschitta, P. Carbone, D. Petri, D. Macii, "Simple and Time-effective Procedure for ADC INL Estimation", IEEE Transactions on Instrumentation and Measurement, Vol. 55, no. 4, Aug. 2006 pp.1383 - 1389.
- [9] A. Moschitta, P. Carbone, "Noise Parameter Estimation From Quantized Data", IEEE Transactions on Instrumentation and Measurement, Vol. 56, no. 3, Aug. 2007 pp.736 - 742.
- [10] A. Moschitta, P. Carbone, "Cramer-Rao Lower Bound for Parametric Estimation of Quantized Sinewaves" IEEE Transactions on Instrumentation and Measurement, Vol. 56, no. 3, Aug. 2007 pp.975 - 982.
- [11] F. Stefani, A. Moschitta, D. Petri, "Measurements of Transient Phenomena With Digital Oscilloscopes" (paper number IM_7288), IEEE Transactions on Instrumentation and Measurement, Volume 56, no. 6, Dec. 2007, pp. 2486 - 2491.
- [12] A. Moschitta, D. Petri, "Integral Non-Linearity in Memoryless A/D Converters", Elsevier Measurement Journal, Vol. 41, no. 2, Feb. 2008, pp. 186-191.
- [13] D. A. Lampasi, A. Moschitta, and P. Carbone, "Accurate Digital Synthesis of Sinewaves", IEEE Transactions on Instrumentation and Measurement, Vol. 57, no. 3 March 2008, pp. 522 - 529.
- [14] A. De Angelis, A. Moschitta, F. Russo, P. Carbone, "A Vector Approach for Image Quality Assessment and Some Metrological Considerations", IEEE Transactions on Instrumentation and Measurement, Vol. 58, no. 1, Jan 2009, pp. 14-25.
- [15] A. De Angelis, M. Dionigi, A. Moschitta, R. Giglietti, P. Carbone, "Characterization and Modeling of an Experimental UWB Pulse-Based Distance Measurement System", IEEE Transactions on Instrumentation and Measurement, Vol. 58, no. 5, May 2009, pp. 1479-1486.
- [16] A. De Angelis, M. Dionigi, A. Moschitta, R. Giglietti, P. Carbone, "A Low-Cost Ultra-Wideband Indoor Ranging System", IEEE Transactions on Instrumentation and Measurement, Vol. 58; p. 3935-3942, ISSN: 0018-9456, DOI: 10.1109/TIM.2009.2020834.

- [17] G. Guerrieri, A. Moschitta, C. Muscas, P. Carbone, "Statistical Properties of Voltage Dip Detectors," *IEEE Transactions on Instrumentation and Measurement*, vol. 59; p. 2800-2807, ISSN: 0018-9456, DOI: 10.1109/TIM.2010.2060770.
- [18] A. Moschitta, P. Carbone, C. Muscas, "Generalized Likelihood Ratio Test for Voltage Dip Detection," *IEEE Transactions on Instrumentation and Measurement*, Vol. 60; No. 5; p. 1644 - 1653; ISSN: 0018-9456, DOI 10.1109/TIM.2011.2113110.
- [19] S. Meroli, A. Cazzorla, B. Checcucci, G. Mazza, A. Moschitta, L. Servoli, "Development of a Laser Driver test setup for SLHC experiments," *Nuclear Physics B - Proceedings Supplements, Proceedings of the 12th Topical Seminar on Innovative Particle and Radiation Detectors (IPRD10)*, Volume 215, Issue 1, June 2011, Pages 218-221, ISSN 0920-5632.
- [20] A. Moschitta, P. Carbone, C. Muscas, "Performance Comparison of Advanced Techniques for Voltage Dip Detection," *IEEE Transactions on Instrumentation and Measurement*, Vol. PP; No. 99; p. 1-9; 2012, ISSN: 0018-9456, DOI 10.1109/TIM.2012.2183436.
- [21] A. Cazzorla, G. De Angelis, A. Moschitta, M. Dionigi, F. Alimenti, P. Carbone, "A 5.6-GHz UWB Position Measurement System," *IEEE Transactions on Instrumentation and Measurement*, Vol. 62, No. 3, 2013, pp. 675-683, doi: 10.1109/TIM.2012.2219139.
- [22] P. Carbone, A. Cazzorla, P. Ferrari, A. Flammini, A. Moschitta, S. Rinaldi, T. Sauter, E. Sisinni, "Low Complexity UWB Radios for Precise Wireless Sensor Network Synchronization," *IEEE Transactions on Instrumentation and Measurement*, Vol. 62, No. 9, pp. 2538-2548, 2013, doi: 10.1109/TIM.2013.2259101.
- [23] M. Dionigi, G. De Angelis, A. Moschitta, M. Mongiardo, P. Carbone, "A Simple Ranging System Based on Mutually Coupled Resonating Circuits," *IEEE Transactions on Instrumentation and Measurement*, Vol. 63, No. 5, pp. 1215-1223, 2014, doi: 10.1109/TIM.2014.2298174.
- [24] G. De Angelis, V. Pasku, A. De Angelis, M. Dionigi, M. Mongiardo, A. Moschitta, P. Carbone, "An Indoor AC Magnetic Positioning System," *IEEE Transactions on Instrumentation and Measurement*, Vol. 64, No. 5, pp. 1275-1283, 2015, doi: 10.1109/TIM.2014.2381353.
- [25] A. Moschitta, J. Schoukens, P. Carbone, "Information and Statistical Efficiency When Quantizing Noisy DC Values," *IEEE Transactions on Instrumentation and Measurement*, Vol. 64, No. 2, pp. 308-317, 2015, doi: 10.1109/TIM.2014.2341372.
- [26] A. De Angelis, A. Moschitta, P. Carbone, M. Calderini, S. Neri, R. Borgna, M. Peppucci, "Design and Characterization of a Portable Ultrasonic Indoor 3-D Positioning System," *IEEE Transactions on Instrumentation and Measurement*, 2015, Vol. PP, No. 99, Pp. 1 - 1, DOI: 10.1109/TIM.2015.2427892.
- [27] De Angelis, A.; Dionigi, M.; Moschitta, A.; Carbone, P.; Sisinni, E.; Ferrari, P.; Flammini, A.; Rinaldi, S., "On the Use of Magnetically Coupled Resonators for Chirp-Based Timestamping," in *Instrumentation and Measurement*, *IEEE Transactions on* , vol.64, no.12, pp.3536-3544, Dec. 2015, doi: 10.1109/TIM.2015.2463332
- [28] A. Moschitta, J. Schoukens, P. Carbone, "Parametric System Identification Using Quantized Data," *IEEE Transactions on Instrumentation and Measurement*, 2015, Vol. 64, No. 8, Pp. 2312-2322, DOI: 10.1109/TIM.2015.2390833.
- [29] Carbone, P.; Schoukens, J.; Kollar, I.; Moschitta, A., "Accurate Sine-Wave Amplitude Measurements Using Nonlinearly Quantized Data," in *Instrumentation and Measurement, IEEE Transactions on* , vol.64, no.12, pp.3201-3208, Dec. 2015, doi: 10.1109/TIM.2015.2463331
- [30] V. Pasku, A. De Angelis, M. Dionigi, G. De Angelis, A. Moschitta and P. Carbone, "A Positioning System Based on Low-Frequency Magnetic Fields," in *IEEE Transactions on Industrial Electronics*, vol. 63, no. 4, pp. 2457-2468, April 2016. doi: 10.1109/TIE.2015.2499251.
- [31] Alessio De Angelis; Marco Dionigi; Antonio Moschitta; Paolo Carbone; Emiliano Sisinni; Paolo Ferrari; Alessandra Flammini; Stefano Rinaldi, "On the Use of Magnetically Coupled Resonators for Chirp-Based Timestamping," *IEEE Transactions on Instrumentation and Measurement*, 2015, Vol. 64, No. 12, pp: 3536 - 3544, DOI: 10.1109/TIM.2015.2463332.

- [32] V. Pasku, M. L. Fravolini, A. Moschitta, "Effects of antenna directivity on RF ranging when using space diversity techniques," Elsevier Journal on Measurement, online as of 6/12/2015, doi: 10.1016/j.measurement.2015.11.030.
- [33] G. de Angelis, A. Moschitta, P. Carbone, "Positioning Techniques in Indoor Environments Based on Stochastic Modeling of UWB Round-Trip-Time Measurements", IEEE Trans. on Intelligent Transportation systems, Vol. 17, No. 8, Aug. 2016, 2272 - 2281, DOI: 10.1109/TITS.2016.2516822.
- [34] B. Renczes, I. Kollár, A. Moschitta and P. Carbone, "Numerical Optimization Problems of Sine-Wave Fitting Algorithms in the Presence of Roundoff Errors," in IEEE Transactions on Instrumentation and Measurement, vol. 65, no. 8, pp. 1785-1795, DOI: 10.1109/TIM.2016.2562218.
- [35] G. De Angelis, A. De Angelis, V. Pasku, A. Moschitta and P. Carbone, "An Experimental System for Tightly Coupled Integration of GPS and AC Magnetic Positioning," in IEEE Transactions on Instrumentation and Measurement, vol. 65, no. 5, pp. 1232-1241, May 2016. doi: 10.1109/TIM.2016.2540938.
- [36] P. Carbone, J. Schoukens, I. Kollár and A. Moschitta, "Measuring the Noise Cumulative Distribution Function Using Quantized Data," in IEEE Transactions on Instrumentation and Measurement, vol. 65, no. 7, pp. 1540-1546, July 2016, doi: 10.1109/TIM.2016.2540865.
- [37] Valter Pasku, Alessio De Angelis, Marco Dionigi, Antonio Moschitta, Guido De Angelis, Paolo Carbone, "Analysis of Nonideal Effects and Performance in Magnetic Positioning Systems," in IEEE Transactions on Instrumentation and Measurement, 2016, vol. 65, no. 12, pp. 2816-2827, doi: 10.1109/TIM.2016.2608425.
- [38] Valter Pasku; Alessio De Angelis; Antonio Moschitta; Paolo Carbone; John-Olof Nilsson; Satyam Dwivedi; Peter Händel, "A Magnetic Ranging-Aided Dead-Reckoning Positioning System for Pedestrian Applications," IEEE Transactions on Instrumentation and Measurement, Year: 2017, Volume: PP, Issue: 99, Pages: 1 - 11, DOI: 10.1109/TIM.2017.2649918.
- [39] Paolo Carbone; Johan Schoukens; Antonio Moschitta, "Dynamic Signal Measurements Based on Quantized Data," IEEE Transactions on Instrumentation and Measurement, Year: 2017, Volume: 66, Issue: 2, Pages: 223 - 233, DOI: 10.1109/TIM.2016.2627298.
- [40] Valter Pasku; Alessio De Angelis; Guido De Angelis; Darmindra D. Arumugam; Marco Dionigi; Paolo Carbone; Antonio Moschitta; David S. Ricketts, "Magnetic Field Based Positioning Systems," IEEE Communications Surveys & Tutorials, Year: 2017, vol. 19, no. 3, pp. 2003-2017, thirdquarter 2017, DOI: 10.1109/COMST.2017.2684087.
- [41] V. Pasku, A. De Angelis, G. De Angelis, A. Moschitta and P. Carbone, "Magnetic Field Analysis for 3-D Positioning Applications," in IEEE Transactions on Instrumentation and Measurement, vol. 66, no. 5, pp. 935-943, May 2017, doi: 10.1109/TIM.2017.2682738.
- [42] Guido De Angelis , Alessio De Angelis, Antonio Moschitta and Paolo Carbone, "Comparison of Measurement Models for 3D Magnetic Localization and Tracking", MDPI Sensors, Special Issue on Sensors and Sensing in Indoor Localization, Tracking, Navigation and Activity Monitoring, 2017, 17(11), 2527, doi:10.3390/s17112527.

Books/book Chapters:

- [43] A. De Angelis, A. Moschitta, P. Handel and P. Carbone, *Advances in Measurement Systems*, Cap. 8, "Experimental radio Indoor Positioning Systems Based on Round Trip Time Measurements", edited by Miling Kr Sharma, ISBN 978-953-307-061-2, April 2010, available on the Internet at <http://sciyo.com/books/show/title/advances-in-measurement-systems>.

- [44] A. Moschitta, D. Macii, F. C. Alegria, and Paolo Carbone, Histogram-Based Techniques for ADC Testing, Cap. 11, Design, Modeling and Testing of Data Converters, edited by Paolo Carbone, Sayfe Kiaei, and Fang Xu, Springer, ISBN 978-3-642-39654-0, pag. 341-377.
- [45] A. Moschitta, I. Neri, "Power consumption Assessment in Wireless Sensor Networks," ICT - Energy - Concepts Towards Zero - Power Information and Communication Technology, Cap. 8, ISBN 978-953-51-1218-1, February 2014, edited by Giorgos Fagas, Luca Gammaitoni, Douglas Paul and Gabriel Abadal Berini, available on the internet at <http://www.intechopen.com/articles/show/title/power-consumption-assessment-in-wireless-sensor-networks>.

Editorships

- [46] Co-editor of "Proceedings of 2011 International Workshop on ADC Modelling, Testing and Data Converter Analysis and Design and IEEE 2011 ADC Forum June 30 - July 1, 2011, Orvieto, Italy", ISBN 978-88-906201-0-2.

Papers presented at peer reviewed International Conferences:

- [47] A. Moschitta, F. Stefani, D. Petri, "Measurements of Transients Phenomena with Digital Oscilloscopes", Proceedings of IEEE IMTC/2003 Conference, Vail, Colorado, USA, 20-22 Maggio 2003, pp. 1345-1349.
- [48] A. Moschitta, D. Petri, "Stochastic Properties of Quantization Noise in Memoryless Converters Affected by Integral Non-Linearity", Proceedings of IEEE IMTC/2003 Conference, Vail, Colorado, USA, 20-22 Maggio 2003, pp. 1444-1447.
- [49] A. Moschitta, P. Carbone, D. Petri, "Statistical Performance of Gaussian ADC Histogram Test", Proceedings of 8th International Workshop on ADC Modelling and Testing IWADC2003, Perugia, Italy, 8-10 Settembre 2003, pp. 213-217.
- [50] A. Moschitta, D. Petri, "Data Conversion in Advanced Communication Systems," Proceedings of the 5th Workshop on ADC Modelling and Testing, IMEKO TC4 Symposium, Vienna, Austria, 23-25 Sept. 2000, pp. 237-241.
- [51] A. Moschitta, D. Petri, "Analysis of Bandpass Sigma-Delta conversion in OFDM Systems," Proceedings of the 8th IEEE Int. Conf. on Electronics, Circuits and Systems, Malta, 2-5 September 2001, pp. 125-129.
- [52] A. Moschitta, D. Petri, "Performance Requirements of Bandpass Sigma-Delta Converters in OFDM Systems," Proceedings of 6th Euro Workshop on ADC Modelling and Testing, IMEKO TC4, Lisbon, Portugal, 13-14 September 2001, pp. 125-129.
- [53] A. Moschitta, D. Petri, "Wideband Communication System Sensitivity to Quantization Noise", Proceedings of IEEE IMTC/2002 conference, Anchorage, Alaska, USA, 21-23 Maggio 2002, pp. 1071-1075.
- [54] A. Moschitta, D. Petri, "Effects of ADC Integral Non-Linearity on Digital Transmission", Proceedings of 4th International Conference on Advanced A/D and D/A Conversion Techniques and their Applications & 7th European Workshop on ADC Modelling and Testing (ADDA & EWADC 2002), Praga, Repubblica Ceca, 26-28 Giugno 2002, pp. 47-50.
- [55] A. Moschitta, D. Petri, "Integral Non-Linearity in Memoryless A/D Converters", XVII IMEKO World Congress, Dubrovnik, Croazia, 22-27 Giugno 2003, pp. 599-602.

- [56] F. Stefani, D. Macii, A. Moschitta, D. Petri, "FFT Benchmarking for Digital Signal Processing Technologies", XVII IMEKO World Congress, Dubrovnik, Croazia, 22-27 Giugno 2003, pp. 590-594.
- [57] A. Moschitta, P. Carbone, "Cramér-Rao Lower Bound for Parametric Estimation of Quantized Sinewaves", Proceedings of IEEE IMTC/2004 Conference, Como, Italia, 18-20 Maggio 2004, pp. 1724-1729.
- [58] F. Stefani, A. Moschitta, P. Carbone, "CDMA System Sensitivity to A/D Conversion", Proceedings of IEEE IMTC/2004 Conference, Como, Italia, 18-20 Maggio 2004, pp. 2041-2047.
- [59] A. Sabatini, A. Moschitta, P. Carbone, " $\Sigma\Delta$ -Based Removal of Unwanted Spectral Components for Sinewave Synthesis", "13th International Symposium on Measurements for Research and Industry Applications and 9th Workshop on ADC Modelling and Testing", Atene, Grecia, 29 Settembre-1 Ottobre 2004.
- [60] F. Stefani, D. Macii, A. Moschitta, P. Carbone, D. Petri, "Fast Estimation of A/D Converter Nonlinearities", "13th International Symposium on Measurements for Research and Industry Applications and 9th Workshop on ADC Modelling and Testing", Atene, Grecia, 29 Settembre-1 Ottobre 2004.
- [61] A. Moschitta, P. Carbone, "Statistical Efficiency of Sinewave fitting When Using Non-Linear Quantizers", Proceedings of IEEE IMTC/2005 Conference, Ottawa, Canada, 17-19 Maggio 2005.
- [62] F. Stefani, D. Macii, A. Moschitta, P. Carbone, D. Petri "A Simple and Time-effective Procedure for ADC INL Estimation", Proceedings of IEEE IMTC/2005 Conference, Ottawa, Canada, 17-19 Maggio 2005.
- [63] D. A. Lampasi, A. Moschitta, P. Carbone, "Accurate Digital Synthesis of Sinewaves", IEEE IMTC/2006 Conference, Sorrento, Italy, 24-27 Aprile 2006.
- [64] A. Moschitta, P. Carbone, "Noise Parameter Estimation From Quantized Data", Proceedings of AMUEM/2006, Sardinia, Trento, Italy, 20-21 Aprile 2006.
- [65] A. De Angelis, M. Dionigi, A. Moschitta, P. Carbone, "A Low-Cost Ultra-Wideband Indoor Ranging Technique", 2007 IEEE Instrumentation and Measurement Technology Conference, Varsavia, Polonia, 1-3 Maggio 2007.
- [66] A. De Angelis, A. Moschitta, F. Russo, P. Carbone, "Image Quality Assessment: an Overview and some Metrological Considerations", 2007 International Workshop on Advanced Methods for Uncertainty Estimation in Measurements, Sardinia, Trento, Italy, 16-18 Luglio 2007.
- [67] D. A. Lampasi, A. Moschitta, P. Carbone, "Loopback Test and Error Conversion of Data Converters", 2008 IEEE Instrumentation and Measurement Technology Conference, Victoria, British Columbia, Canada, 12-15 Maggio 2008.
- [68] A. De Angelis, M. Dionigi, A. Moschitta, R. Giglietti, P. Carbone, "An Experimental UWB Distance Measurement System", 2008 IEEE Instrumentation and Measurement Technology Conference, Victoria, British Columbia, Canada, 12-15 Maggio 2008.
- [69] A. Moschitta, P. Carbone, "Testing Data Converters When Sampling is Incoherent", IWADC 2008, Firenze, 22-24 Settembre 2008.
- [70] A. Moschitta, P. Carbone, "An Automated Procedure for Selecting Frequency and Record Length When Testing Data Converters", I²MTC 2009, Singapore, 4-7 Maggio 2009.
- [71] G. Santinelli, R. Giglietti, A. Moschitta, "Self Calibrating Indoor Positioning system Based on ZigBee Devices", I²MTC 2009, Singapore, 4-7 Maggio 2009.
- [72] T. Grego, M. Dionigi, A. Moschitta, P. Carbone, "A Portable Dielectric Constant Sensor Based on Time of Flight Measurements", I²MTC 2009, Singapore, 4-7 Maggio 2009.
- [73] G. Guerrieri, A. Moschitta, P. Carbone, C. Muscas, "Statistical properties of voltage dip detectors", Atti AMUEM 2009, Bucharest, Romania, 6-7 Luglio 2009, p. 69-73, doi: 10.1109/AMUEM.2009.5207598.
- [74] P. Napolitano, A. Moschitta, P. Carbone, "A Survey on Time Interval Measurement Techniques and Testing Methods," I²MTC 2010, Austin, Texas, USA, 3-6 Maggio 2010.
- [75] A. Moschitta, C. Muscas, P. Carbone, "Generalized Likelihood Ratio Test for Voltage Dip Detection," I²MTC 2010, Austin, Texas, USA, 3-6 Maggio 2010.

- [76] F. M. Lombardi, A. Moschitta, P. Carbone, "A Sine Generation and Coherent Sampling System with High Time Accuracy," 17th IMEKO TC4, 3rd Symposium IMEKO TC 19, and 15th IMEKO IWADC Workshop, Kosice, Slovakia, Sept. 8-10, 2010.
- [77] M. D'Amico, F. Fantozzi, A. Moschitta, M. Dionigi, P. Carbone, "A Simple Time-Domain-Reflectometry Based Methodology for Woodchip Humidity Measurements," IEEE International Conference on Environmental, Energy, and Structural Monitoring Systems EESMS 2010, Taranto, Italy, Sept. 9, 2010.
- [78] A. Moschitta, P. Carbone, C. Muscas, "Performance Comparison of Advanced Techniques for Voltage Dip Detection," IEEE I²MTC 2011, Hangzhou, China, May 10-12 2011.
- [79] C.M. De Dominicis, A. Flammini, S. Rinaldi, E. Sisinni, A. Cazzorla, A. Moschitta, P. Carbone, "High Precision UWB Timestamping," 2011 International IEEE Symposium on Precision Clock Synchronization for Measurement Control and Communication (ISPCS 2011), pp. 50-55, Digital Object Identifier 10.1109/ISPCS.2011.6070150.
- [80] P. Napolitano, N. Conti, A. Moschitta, P. Carbone, "A simple model for characterizing the behavior of photovoltaic modules," 2011 IEEE Workshop on Environmental Energy and Structural Monitoring Systems (EESMS 2011), pp. 1-5, Digital Object Identifier: 10.1109/EESMS.2011.6067050.
- [81] M. L. Fravolini, S. Fiani, A. Moschitta, "Component-wise bounds for MIMO control systems using finite resolution quantizers," 2011 International Workshop on ADC Modelling, Testing and Data Converter Analysis and Design and IEEE 2011 ADC Forum June 30 - July 1, 2011. Orvieto, Italy.
- [82] P. Napolitano, A. Moschitta, P. Carbone, "Modeling Noise Effects in Time-to-Digital Converters," 2011 International Workshop on ADC Modelling, Testing and Data Converter Analysis and Design and IEEE 2011 ADC Forum June 30 - July 1, 2011. Orvieto, Italy.
- [83] A. Moschitta, D. Macii, F. Trenti, S. Dalpez, A. Bozzoli, "Characterization of a Geometrical Wireless Signal Propagation Model for Indoor Ranging Techniques," I2MTC 2012, May 13-16, Graz, Austria.
- [84] A. Moschitta, M.L. Fravolini, P. Carbone, F. Tissi, "Practical implementation Issues in detecting Voltage Dips," I2MTC 2012, May 13-16, Graz, Austria.
- [85] M. D'Amico, F. Fantozzi, A. Moschitta, A. Cazzorla, P. Carbone, "Woodchip Humidity measurements using EM pulse propagation time," 2012 IEEE Workshop on Environmental, EESMS 2012, Perugia, Italy, September 28, 2012.
- [86] A. Moschitta, A. Damiani, P. Carbone, "A Simple and Accurate model for Predicting Mismatch Effects in Photovoltaic Arrays," 2012 IEEE International energy Conference and Exhibition ENERGYCON 2012.
- [87] Marco Dionigi, Guido De Angelis, Antonio Moschitta, Mauro Mongiardo, Paolo Carbone, "A simple ranging system based on mutually coupled resonating circuits," 2013 IEEE International Instrumentation and Measurement Technology Conference (I2MTC), 2013, pp. 920-924, doi: 10.1109/I2MTC.2013.6555550.
- [88] Alessio De Angelis, Satyam Dwivedi, Peter Händel, Antonio Moschitta, Paolo Carbone, "Ranging Results Using a UWB Platform in an Indoor Environment," Proceedings of 3rd IEEE International Conference on Localization and GNSS ICL-GNSS 2013, Turin, Italy, June 25-27 2013.
- [89] Mario Fravolini, Srikanth Gururajan, Guido De Angelis, Antonio Moschitta, Haiyang Chao, Marcello Napolitano, "UAV Analytical Redundancy based fault detection of the Airspeed Sensor via Generalized Likelihood Ratio Test," Proceedings of 2013 AIAA Guidance, Navigation, and Control Conference, AIAA Atmospheric Flight Mechanics Conference, AIAA Modeling and Simulation Technologies Conference, AIAA Infotech@Aerospace 2013 Conference, Boston, MA, USA, Aug. 19-22 2013.
- [90] Igor Neri, Riccardo Centonze, Mario Luca Fravolini, Antonio Moschitta, "A simple ranging technique based on received signal strength measurements in a narrowband 2.4 GHz channel: a space diversity approach," Proceedings of 2013 IEEE International Workshop on Measurement and Networking M&N 2013, Naples, Italy, October 4, 2013.

- [91] G. De Angelis, A. Moschitta, P. Carbone, "Statistical efficiency of Synchronous Time-to-Digital Converters," Proceedings of 2013 IEEE Nordic-Mediterranean Workshop on Time to Digital Converters NoMe-TDC 2013, Perugia, Italy, October 3 2013.
- [92] G. De Angelis, A. De Angelis, M. Dionigi, M. Mongiardo, A. Moschitta, P. Carbone, "An accurate Indoor Position-measurement system using mutually coupled resonating circuits," 2014 IEEE International Instrumentation and Measurement Technology Conference (I2MTC), 2014, pp. 844-849, Montevideo, Uruguay, May 12-15 2014, doi: 10.1109/I2MTC.2014.6860862.
- [93] A. De Angelis, A. Moschitta, P. Carbone, M. Calderini, S. Neri, R. Borgna, M. Peppucci, "Design and characterization of an ultrasonic indoor positioning technique," 2014 IEEE International Instrumentation and Measurement Technology Conference (I2MTC), 2014, pp. 1623-1628, May 12-15 2014, doi: 10.1109/I2MTC.2014.6861020.
- [94] V. Pasku, M.L. Fravolini, A. Moschitta, "RF ranging based on space diversity techniques and directive antennas," Proc. of 20th IMEKO TC-4 International Symposium & 18th TC-4 Workshop on ADC and DAC Modelling and Testing, Benevento Italy, September 15-17 2014, pp. 802-806.
- [95] A. Moschitta, P. Carbone, "Advanced software tools for parametric identification based on quantized data", Proc. of 20th IMEKO TC-4 International Symposium & 18th TC-4 Workshop on ADC and DAC Modelling and Testing, Benevento Italy, September 15-17 2014, pp. 665-666.
- [96] L. Battaglini, P. Burrascano, A. De Angelis, A. Moschitta, M. Ricci, "A Low-cost Ultrasonic Rangefinder based on Frequency Modulated Continuous Wave," Proc. of 20th IMEKO TC-4 International Symposium & 18th TC-4 Workshop on ADC and DAC Modelling and Testing, Benevento Italy, September 15-17 2014, pp. 1122-1126.
- [97] A. De Angelis, M. Dionigi, A. Moschitta, P. Carbone, E. Sisinni, P. Ferrari, A. Flammini, S. Rinaldi, "Inexpensive time dissemination using magnetically coupled resonators," 2014 IEEE International Symposium on Precision Clock Synchronization for Measurement, Control, and Communication (ISPCS), 2014, pp. 36-41, DOI: 10.1109/ISPCS.2014.6948528.
- [98] S. Gururajan, M. Fravolini, M. Rhudy, A. Moschitta, M. Napolitano, "Evaluation of Sensor Failure Detection, Identification and Accommodation (SFDIA) Performance Following Common-Mode Failures of Pitot Tubes," SAE Technical Paper 2014-01-2164, 2014, doi:10.4271/2014-01-2164.
- [99] Valter Pasku, Alessio De Angelis, Marco Dionigi, Antonio Moschitta, Guido De Angelis, Paolo Carbone, "Analysis of the sensitivity of AC magnetic ranging systems to environmental configurations," 2015 IEEE International Instrumentation and Measurement Technology Conference (I2MTC), 2015 Pp. 1877 - 1882, DOI: 10.1109/I2MTC.2015.7151567.
- [100] B. Renczes, I. Kollar, P. Carbone, A. Moschitta, V. Palfi, T. Virosztek, "Analyzing numerical optimization problems of finite resolution sine wave fitting algorithms," 2015 IEEE International Instrumentation and Measurement Technology Conference (I2MTC), 2015, pp. 1662-1667, DOI: 10.1109/I2MTC.2015.7151529.
- [101] Guido De Angelis, Antonio De Angelis, Antonio Moschitta, Paolo Carbone, "Ultrasound based positioning using Time of Flight measurements and crosstalk mitigation," 2015 IEEE International Instrumentation and Measurement Technology Conference (I2MTC), 2015, pp. 1865-1870, DOI: 10.1109/I2MTC.2015.7151565.
- [102] Guido De Angelis, Alessio De Angelis, Valter Pasku, Antonio Moschitta, Paolo Carbone, "Tightly coupled integration of GPS and AC Magnetic Positioning Systems," 2015 IEEE International Instrumentation and Measurement Technology Conference (I2MTC), 2015, pp. 1687-1692, DOI: 10.1109/I2MTC.2015.7151534.
- [103] Benjamin Gruenwald, Tansel Yucelen, Mario Luca Fravolini, Antonio Moschitta, "A non-conservative approach for the estimation of the region of operation of uncertain adaptive control systems," ASME 2015 Dynamic Systems and Control Conference (DSCC2015).
- [104] Pasku, Valter; Fravolini, Mario Luca; Moschitta, Antonio, "Effects of antenna directivity on a 2.5D positioning technique based on multiple RF transceivers," in *Measurements & Networking (M&N)*, 2015 IEEE International Workshop on , vol., no., pp.1-5, 12-13 Oct. 2015, doi: 10.1109/IWMN.2015.7322976.

- [105] De Angelis, G.; De Angelis, A.; Pasku, V.; Moschitta, A.; Carbone, P., "A hybrid outdoor/indoor Positioning System for IoT applications," in *Systems Engineering (ISSE), 2015 IEEE International Symposium on*, vol., no., pp.1-6, 28-30 Sept. 2015,doi: 10.1109/SysEng.2015.7302503.
- [106] V. Pasku, A. De Angelis, G. De Angelis, A. Moschitta and P. Carbone, "Magnetic field analysis for distance measurement in 3D positioning applications," 2016 IEEE International Instrumentation and Measurement Technology Conference Proceedings, Taipei, 2016, pp. 1-6, doi: 10.1109/I2MTC.2016.7520456
- [107] V. Pasku, A. De Angelis, A. Moschitta, P. Carbone, J. Nilsson, S. Dwivedi, P. Handel, "A magnetic ranging aided dead-reckoning indoor positioning system for pedestrian applications," 2016 IEEE International Instrumentation and Measurement Technology Conference Proceedings, Taipei, 2016, pp. 1-6, doi: 10.1109/I2MTC.2016.7520597.
- [108] G. De Angelis, A. De Angelis, A. Moschitta and P. Carbone, "A crosstalk-resilient method for time-of-arrival measurement," 2016 IEEE International Instrumentation and Measurement Technology Conference Proceedings, Taipei, 2016, pp. 1-6, doi: 10.1109/I2MTC.2016.7520558.
- [109] Guido De Angelis; Alessio De Angelis; Valter Pasku; Antonio Moschitta; Paolo Carbone, "A simple magnetic signature vehicles detection and classification system for Smart Cities," 2016 IEEE International Symposium on Systems Engineering (ISSE), Year: 2016, Pages: 1 - 6, DOI: 10.1109/SysEng.2016.7753170.
- [110] A. De Angelis, A. Moschitta and A. Comuniello, "TDoA based positioning using ultrasound signals and wireless nodes," 2017 IEEE International Instrumentation and Measurement Technology Conference (I2MTC), Turin, 2017, pp. 1-6, doi: 10.1109/I2MTC.2017.7969873.
- [111] A. De Angelis, M. Dionigi and P. Carbone, "Analysis of simultaneous 3D positioning and attitude estimation of a planar coil using inductive coupling," 2017 IEEE International Instrumentation and Measurement Technology Conference (I2MTC), Turin, 2017, pp. 1-6, doi: 10.1109/I2MTC.2017.7969848.
- [112] Antonio Moschitta, Alessio De Angelis, Guido De Angelis, Francesco Santoni, Marco Dionigi, Paolo Carbone, "Accurate Estimation of a Coil Magnetic Dipole Moment," 2017 IEEE International Workshop on Measurements and Networking (M&N), Naples, Italy, September 27-29 2017, in press.