

## INRiM Bibliography

### Publications

#### Journals:

- [1] F. Boschi, P.R. Basso, I Corridori, G. Durando, A. Sandri, G. Segalla, M. Raspanti, A. E. Spinelli, Weak biophoton emission after laser surgery application in soft tissues: analysis of the optical features, *Journal of Biophotonics*, 2019, Vol. 12, No. 9, pp. 1-9
- [2] M. Galetto, A. Schiavi, G. Genta, A. Prato, F. Mazzoleni, "Uncertainty evaluation in calibration of low-cost digital MEMS accelerometers for advanced manufacturing applications", *CIRP Annals Manufacturing Technology* 68, 535-538, 2019
- [3] A. Schiavi, G. Cellai, S. Secchi, F. Brocchi, A. Grazzini, A. Prato, F. Mazzoleni, "Stone Masonry Buildings: Analysis Of Structural Acoustic And Energy Performance Within The Seismic Safety Criteria", *Construction and Building Materials*, 220, 29-42, 2019.
- [4] G. D'Emilia, A. Gaspari, F. Mazzoleni, E. Natale, A. Schiavi, "Calibration of tri-axial MEMS accelerometers in the low-frequency range. Part 1: comparison among methods", *Journal of Sensors and Sensor Systems*, 7(1), 245-257, 2018.
- [5] G. D'Emilia, A. Gaspari, F. Mazzoleni, E. Natale, A. Schiavi, "Calibration of tri-axial MEMS accelerometers in the low-frequency range. Part 2: uncertainty assessment", *Journal of Sensors and Sensor Systems*, 7(1), 403-410, 2018.
- [6] A. Prato, N. Montali, C. Guglielmone, A. Schiavi, "Pressure calibration of a digital microelectromechanical system microphone by comparison", *Journal of the Acoustical Society of America* 144 (4), October 2018.
- [7] G. D'Emilia, A. Gaspari, E. Natale, N. Montali, A. Prato, A. Schiavi, "Validated data mining technique: a case study on pressure-field digital MEMS microphone calibration", *Journal of Physics: Conference Series*. Vol. 1065. No. 7. IOP Publishing, 2018.
- [8] F. Giuntini, F. Foglietta, A. M. Marucco, A. Troia, N. V.Dezhkunov, A. Pozzoli, G. Durando, I. Fenoglio, L. Serpe, R. Canaparo, Insight into ultrasound-mediated reactive oxygen species generation by various metal-porphyrin complexes, *Free Radical Biology and Medicine*, 2018, Vol. 121, pp. 190-201

[9] Spinelli A.E., Durando G., Boschi F., Weak light emission of soft tissues induced by heating, Journal of Biomedical Optics, 2018, Vol. 23, No.4, pp. 46003 1-4

[10] Brazzale, Chiara; Canaparo, Roberto; Racca, Luisa; Foglietta, Federica; Durando, Giovanni; Fantozzi, Roberto; Caliceti, Paolo; Salmaso, Stefano; Serpe, Loredana, Enhanced selective sonosensitizing efficacy of ultrasound-based anticancer treatment by targeted gold nanoparticles, Nanomedicine, 2016, Vol.11, No. 23, pp. 3053-3070

[11] Durando Giovanni, Guglielmone Claudio, Ultrasound Physiotherapy Devices: How to Measure Them, IEEE Instrumentation & Measurement Magazine, 2016, Vol. 19, No. 5, pp. 15-19

[12] Durando Giovanni, Guglielmone Claudio, Progetto euramet: HLT03 DUTy - Dosimetria per terapie ultrasonore. Confronto tra metodi di misura, RIA-Rivista Italiana di Acustica, 2016, Vol. 39, No. 4, pp. 14-22

[13] J Haller, C Koch, R P B Costa-Felix, P K Dubey, G Durando, Y T KIM and M Yoshioka, Final report on Key Comparison CCAUV.U-K3.1, Metrologia, 2016, Vol.53, Tech. Suppl., pp. 1-47

[14] A. Schiavi, L. Rossi, A. Ruatta, "The perception of vibration in buildings: A historical literature review and some current progress", Building Acoustics 23 (1), 59-70, 2016.

#### International conferences:

[1] Giovanni Durando, Piero Miloro, Volker Wilkens, Baki Karaboce, Jacco De Pooter, Gerard Van Rhoon, Gail ter Haar, Barbara Caccia, Antonello Spinelli, Antonia Denkowa, Roeland Dijkema, EURAMET EMPIR 18HLT06 RaChy Project: Radiotherapy coupled with Hyperthermia (Induced by HITU), 23rd International Congress on Acoustics (ICA2019), Aachen Germany, 9-13/09/2019

[2] Giovanni Durando, Piero Miloro, Volker Wilkens, Baki Karaboce, Jacco De Pooter, Gerard Van Rhoon, Gail ter Haar, Barbara Caccia, Antonello Spinelli, Antonia Denkowa, Roeland Dijkema, RaChy - Radiotherapy Coupled with Hyperthermia- 18HLT06 EURAMET EMPIR Project, IEEE International Symposium on Medical Measurements and Applications (MeMeA), Istanbul, Turkey, 26-28/06/2019

[3] A. Prato, F. Mazzoleni, A. Schiavi, "Metrological traceability for digital sensors in smart manufacturing: calibration of MEMS microphones and accelerometers at INRiM", IEEE International Workshop on Metrology for Industry 4.0 and IoT, Naples, June 4 - 6, 2019.

- [4] A. Schiavi, A. Prato, F. Mazzoleni, "Out-of-plane vibrations and damping analysis of Etruscan tuff stone masonry blocks and cement mortars", 26nd International Congress of Sound and Vibration (ICSV), 7 - 11 July 2019, Montreal (Canada), Atti del convegno.
- [5] A Prato, A Schiavi, I Buraioli, D Lena, D Demarchi, Calibration and characterization of MEMS microphones, Abstract in Journal of the Acoustical Society of America, 141(5):3677-3677, June 2017
- [6] Volker Wittstock, Claudio Guglielmone, Introducing the concept of traceability into sound power measurements, Proceedings of InterNoise 2016, Hamburg, August 21-24, pp. 6730-6736
- [7] Cafer Kirbas, Håkan Andersson, Claudio Guglielmone, Volker Wittstock, Primary Sound Power Sources for the realisation of the unit watt in Airborne sound, Proceedings of InterNoise 2016, Hamburg, August 21-24, pp. 6737-6748
- [8] Spyros Brezas, Patrick Cellard, Håkan Andersson, Claudio Guglielmone, Cafer Kirbas, Dissemination of the unit Watt in airborne sound: aerodynamic reference sound sources as transfer standards, Proceedings of InterNoise 2016, Hamburg, August 21-24, pp. 6762-6770
- [9] Claudio Guglielmone, Volker Wittstock, Cafer Kirbas, Håkan Andersson, Main achievements of the EMRP Sound Power project and future prospects, Proceedings of InterNoise 2016, Hamburg, August 21-24, pp. 6811-6817
- [10] Dr. Federica Palorini, Dr. Daniela Origgi, Dr. Marika Guernieri, Dr. Adriano Troia, Dr. Chiara Magnetto and Dr. Giovanni Durando, Measurements of temperature increase induced on a tissue-mimicking material by a clinical US- guided HIFU system, IEEE International Symposium on Medical Measurements and Applications (MeMeA), Torino Italy, 7-9/05/2015, pp. 112 - 116
- [11] Durando, G.; Guglielmone, R. Canaparo, L.Serpe, Acoustic characterization of ultrasound fields able to induce sonodynamic activity in an in vitro cancer model, IEEE International Symposium on Medical Measurements and Applications (MeMeA), Torino Italy, 7-9/05/2015, pp. 121 - 124
- [12] A Schiavi, L Rossi, Vibration perception in buildings: a survey. From the historical origins to the present day, Energy Procedia 78, 2015, 2-7
- [13] A Schiavi, A Germak, F Mazzoleni, Simultaneous 3-axis mems accelerometer primary calibration: description of the test-rig and measurements, IMEKO – XXI World Congress, 30 August – 4 September 2015, Prague