

**Prof. Nicola Giaquinto – scientific papers 2006-2010**

*Papers on international journals*

- [1] A. Attivissimo, A. Di Nisio, and N. Giaquinto, “Measuring dynamic nonlinearity of digitizers affected by time base distortion,” *IEEE Trans. Instrum. Meas.*, in press.
- [2] F. Adamo, F. Attivissimo, L. Fabbiano, N. Giaquinto, and M. Spadavecchia, “Soil moisture assessment by means of compressional and shear wave velocities: Theoretical analysis and experimental setup,” *Measurement*, vol. 43, no. 3, pp. 344 – 352, Apr. 2010.
- [3] A. Di Nisio, L. Fabbiano, N. Giaquinto, and M. Savino, “Maximum likelihood estimation for linearity testing of ADCs stimulated by known constant signals,” *Computer Standard and Interfaces*, vol. 32, no. 3, pp. 119–125, Mar. 2010.
- [4] F. Adamo, F. Attivissimo, L. Fabbiano, and N. Giaquinto, “Velocity–moisture relationships for sandy soils: Experimental results and data analysis,” *IEEE Trans. Instrum. Meas.*, vol. 58, no. 2, pp. 311–317, Feb. 2009.
- [5] A. Di Nisio, N. Giaquinto, L. Fabbiano, G. Cavone, and M. Savino, “Improved static testing of A/D converters for DC measurements,” *IEEE Trans. Instrum. Meas.*, vol. 58, no. 2, Feb. 2009.
- [6] G. Andria, F. Attivissimo, N. Giaquinto, A. M. L. Lanzolla, and N. Sasanelli, “Best match procedures in transition phase identification for handgrip test analysis in normal and pathological subjects,” *IEEE Trans. Instrum. Meas.*, vol. 57, no. 6, pp. 1086–1093, Jun. 2008.
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- [12] F. Attivissimo, N. Giaquinto, A. M. L. Lanzolla, and M. Savino, “Effects of midpoint linearization and nonsubtractive dithering in A/D converters,” *Measurement*, vol. 40, no. 5, pp. 537–544, Jun. 2007.
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- [14] G. Andria, F. Attivissimo, N. Giaquinto, A. Lanzolla, L. Quagliarella, and N. Sasanelli, “Functional evaluation of handgrip signals for Parkinsonian patients,” *IEEE Trans. Instrum. Meas.*, vol. 55, no. 5, pp. 1467–1473, Oct. 2006.

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- [1] F. Attivissimo, G. Cannazza, A. Cataldo, L. Fabbiano, and N. Giaquinto, "Analysis of the variability of systematic errors in ADC-based instruments," in *Proc. of IMEKO TC4 Symposium*, Kosice, SK, Sep. 2010.
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- [18] F. Attivissimo, N. Giaquinto, A. Lanzolla, L. Quagliarella, and N. Sasanelli, "Estimation of characteristic parameters for objective diagnostic in Parkinson disease and comparison with standard clinical tests," in *Proc. of IEEE Instrumentation and Measurement Technology Conference (IMTC)*, Sorrento, Italy, Apr. 24–27, 2006, pp. 720–724.