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**Selected Scholarly Contributions [Data Provided by SCOPUS]**

Methods for fast detection of voltage sags as a crucial prerequisite for reliable operation of Dynamic Voltage Restorer  
*Przeglad Elektrotechniczny*, 86 (1), pp. 35-37, 2010.

Computation of voltage sag initiation with Fourier based algorithm, Kalman filter and Wavelets  
2009 IEEE Bucharest PowerTech: Innovative Ideas Toward the Electrical Grid of the Future, 2009.

Computation of spectral components in system with wind generation unit  
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Adaptation of SVD and prony method for precise computation of current components in networks with wind generation  
2009 International Conference on Clean Electrical Power, ICCEP 2009, pp. 624-629, 2009.

Parametric algorithms for frequency estimation in PWM converter systems  
*Electric Power Systems Research*, 79 (11), pp. 1568-1573, 2009.

Application of wavelets and Prony method for disturbance detection in fixed speed wind farms  
*International Journal of Electrical Power and Energy Systems*, 31 (9), pp. 429-436, 2009.

Analysis of non-stationary electric signals using the S-transform

*COMPEL - The International Journal for Computation and Mathematics in Electrical and Electronic Engineering*, 28 (1), pp. 204-210, 2009.

Application of advanced signal processing methods for accurate detection of voltage dips  
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Location of faults on transmission lines using wavelet transforms

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*IEEE Transactions on Instrumentation and Measurement*, 57 (4), pp. 672-681, 2008.

Recognition of disturbances patterns correlated to equipment

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Prony and nonlinear regression methods used for determination of transient parameters in wind energy conversion system

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Power quality evaluation using advanced spectrum estimation methods

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Parametric spectral estimation for power quality assessment

EUROCON 2007 - The International Conference on Computer as a Tool, pp. 1641-1647, 2007.

**Parametric Algorithms for Frequency Calculation in PWM Converters Systems**  
*2007 IEEE International Symposium on Diagnostics for Electric Machines, Power Electronics and Drives, SDEMPED, pp. 203-207, 2007.*

**Analysis of influence of power quality disturbances using a neuro-fuzzy system**  
*Proceedings of the IASTED International Conference on Energy and Power Systems, pp. 182-185, 2007.*

**Wind generator transients' computation using Prony method**  
*2007 International Conference on Clean Electrical Power, ICCEP '07, pp. 598-604, 2007.*

**Time-frequency analysis of power distortion under fault conditions for grid connected wind turbine**  
*2007 International Conference on Clean Electrical Power, ICCEP '07, pp. 741-746, 2007.*

**Neuro-fuzzy approach to diagnosis of electrical networks operation**  
*41st International Universities Power Engineering Conference, UPEC 2006, Conference Proceedings, 2, pp. 650-654, 2006.*

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*Conference Record - IEEE Instrumentation and Measurement Technology Conference, pp. 1015-1020, 2006.*

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*IECON Proceedings (Industrial Electronics Conference), pp. 3424-3427, 2006.*

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*Przeglad Elektrotechniczny, 82 (3), pp. 51-54, 2006.*

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*IEEE Transactions on Instrumentation and Measurement, 55 (1), pp. 219-225, 2006.*