

Author: Constantin SUCIU

Habilitation thesis title: Applicability of Digitalization in Systems Engineering

Domain: Systems Engineering

PUBLICATIONS LIST

RELEVANT PAPERS

1. Suci, C., Kansara, M., Holmes, P., Szabo, W., *Performance enhancement of an induction motor by secondary impedance control*, IEEE Transactions on Energy Conversion, Volume: 17, Issue: 2, Pages: 211-216, DOI: 10.1109/TEC.2002.1009470, JUN 2002, ISSN: 0885-8969, (ISI Journal, WOS:0001761770000, FI: 3,808).
2. Suci, C., Moldoveanu, F., Campeanu, R., Baciu, I., Grigorescu, S.M., Carstea, B., Voinea, V., *GPRS Based System for Atmospheric Pollution Monitoring and Warning*, 2006 IEEE International Conference on Automation, Quality and Testing, Robotics, VOL 2, Pages: 193-198, May 25-28, 2006, ISBN:1-4244-0360-X, (ISI Proceedings, IEEE Xplore, WOS:000241464000035).
3. Suci, C., Campeanu, R., Campeanu, A., Margineanu, I., Danila, A., *A virtual instrumentation-based on-line determination of a single/two phase induction motor drive characteristics at coarse start-up*, IEEE International Conference on Automation, Quality and Testing, Robotics, Vol. III, pp.440-443, May 22-25 2008, ISBN:978-1-4244-2576-1, (ISI Proceedings, IEEE Xplore, WOS:000259080200080).
4. Girbea, A., Suci, C., Nechifor, S., Sisak, F., *Design and Implementation of a Service-Oriented Architecture for the Optimization of Industrial Applications*, IEEE Transactions on Industrial Informatics, Volume: 10, Issue: 1, Pages: 185-196, DOI: 10.1109/TII.2013.2253112, Feb 2014, (ISI Journal, WOS:000336668600019, FI : 6,764).
5. Itu, L. M., Sharma, P., Kamen, A., D., Suci, C., Comaniciu, D., *Graphics Processing Unit Accelerated One-Dimensional Blood Flow Computation in the Human Arterial Tree*, International Journal on Numerical Methods in Biomedical Engineering, Vol. 29, December, 2013, pp. 1428 – 1455, ISSN: 2040-7947, DOI: 10.1002/cnm.2585 (ISI journal, WOS:000327732300008, FI: 1.849).
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7. Suci, C., Kansara, M., Holmes, P.G., Szabo, W., *Phase advancing for current in R-L circuits using switched capacitors*, Electronics Letters, Volume: 35, Issue: 16, 5 Aug 1999, ISSN: 0013-5194, DOI: 10.1049/el:19990923, (ISI journal, WOS:000082310900007, FI: 1,155).

PhD THESIS

Title: *Switch Mode Emulation of Large Value Capacitors In The Rotor Circuit To Improve The Induction Motor Performance*, 2000.

PhD Supervisor: Mohan KANSARA, Peter HOLMES

University: Nottingham Trent, UK

PATENTS

1. Itu, L.M., Sharma, P., Zheng, X., Kamen, A., Suciu, C., Comaniciu, D., A Framework for Personalization of Coronary Flow Computations During Rest and Hyperemia, World Patent Application WO/2013/138428, September 2013.

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2. Suciu, C., Dafinca, L., Campeanu, R., Blendea, C., *Introduction to Expert Systems. Fuzzy Systems*, Editura Universitatii Transilvania, 2007, ISBN 978-973-635-889-0 (Cod CNCISIS 81).
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6. Suciu, C., Itu, L.M., *Introducere în Rețele Industriale de Comunicație*, Editura Universității Transilvania din Brașov, 2017, 98 pag., ISBN: (Cod CNCISIS 81).

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3. Girbea, A., Suciu, C., Nechifor, S., Sisak, F., *Design and Implementation of a Service-Oriented Architecture for the Optimization of Industrial Applications*, IEEE Transactions on Industrial Informatics, Volume: 10, Issue: 1, Pages: 185-196, DOI: 10.1109/TII.2013.2253112, Feb 2014, (ISI Journal, WOS:000336668600019, FI : 6,764).
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 12. Niţă, C., Itu, L. M., Suci, C. GPU Accelerated Fluid Flow Computations using the Lattice Boltzmann Method, Bulletin of the Transilvania University of Brasov - Series I, Engineering Sciences, Vol. 55, pp. 67–74, 2013, ISSN: 2065-2119 (EBSCO).
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 14. Girbea, A., Suci, C., Sisak, F., *Constraint Based Approach for Optimized Planning-Scheduling Problems*, Bulletin of the Transilvania University of Brasov, Series I: Engineering Sciences, 2011, Vol. 4 Issue 2, pp123-130, (EBSCO).
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1. Suci, C., Dafinca, L., Kansara, M., Margineanu, I., *Switched capacitor fuzzy control for power factor correction in inductive circuits*, PESC 2000: 31ST ANNUAL IEEE POWER ELECTRONICS SPECIALISTS CONFERENCE, VOLS 1-3, JUN 18-23, 2000, ISBN:0-7803-5693-4, (ISI Proceedings, IEEE Xplore, WOS:000166883500120).

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