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Habilitation thesis title: Computational Methods for Personalized Cardiovascular Medicine

Domain: Systems Engineering

PUBLICATIONS LIST

RELEVANT PAPERS

1. Itu, L. M., Sharma, P., Passerini T., Kamen, A., D., Suciu, C., Comaniciu, D., A Parameter Estimation Framework for Patient-specific Hemodynamic Computations, *Journal of Computational Physics*, Vol. 281, Jan, 2015, pp. 316-333, ISSN 0021-9991, DOI: 10.1016/j.jcp.2014.10.034 (ISI journal, WOS:000346429300018, FI: 2.556).
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3. Itu, L. M., Sharma, P., Kamen, A., D., Suciu, 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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8. Itu, L. M., Suciu, C. A method for modeling surrounding tissue support and its global effects on arterial hemodynamics, *Proc. of IEEE International Conference on Biomedical and Health Informatics – BHI 2014*, Valencia, Spain, June 1-4, 2014, pp. 1-4, ISSN: 2168-2194 (ISI Proceedings, IEEE Xplore, WOS:000346504900141).
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PhD THESIS

Parallel Processing in the Multiscale Modeling of Coronary Hemodynamics, 2013.

PhD Supervisor: Prof. dr. ing. Florin-Dumitru Moldoveanu

Domain: Systems Engineering

Transilvania University of Braşov

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