# LISTA DE LUCRĂRI

## Dr. Ing. Ionela RUSU

**I.** **Lucrări publicate**

1. M. Dîrtu, F. Schmit, A. D. Naik, **I. Rusu**, A. Rotaru, S. Rackwitz, J. A. Wolny, V. Schünemann, L. Spinu, and Y. Garcia, „*Two-step spin transition in a 1D Fe(II) 1,2,4-triazole chain compound*", Chemistry - A European Journal, 2015, 21, pp. 5843 – 5855. **(factor ISI: 5.731, SRI 4.479)**

2. S. Soiman, **I. Rusu**, S.-G. Pentiuc, , "*Optimizing the Forward Algorithm for Hidden Markov Model on IBM Roadrunner clusters* ", Advances in Electrical and Computer Engineering, vol.15, nr. 2, pp.103-108, 2015, doi:10.4316/AECE.2015.02013. **(factor ISI: 0.642, SRI 0.215)**

3. C.-M. Jureschi, **I. Rusu**, E. Codjovi, J. Linares, Y. Garcia, A. Rotaru, "*Thermo- and piezochromic properties of [Fe(hyptrz)]$A_2 \cdot H_2O$ spin crossover 1D coordination polymer: towards spin crossover based temperature and pressure sensors*", Physica B: Condensed Matter. 2014. DOI: 10.1016/j.physb.2014.04.08 **(factor ISI: 1.327, SRI 0.621)**

4. E.-G. Crăciun, L. Grisoni, Ş.-G. Pentiuc, **I. Rusu**, *Novel Interface for Simulation of Assembly Operations in Virtual Environments*, Advances in Electrical and Computer Engineering, vol. 13, nr. 1, pp. 47-52. Indexat Web Of Science **(factor ISI: 0.555, SRI 0.171)**

5. **I. Rusu**, Ş.-G. Pentiuc, I. Ungurean, E.- G. Crăciun, *A parallel approach for Monte Carlo based photon propagation simulation*, Proceedings of the 5th Romania Tier 2 Federation "Grid, Cloud & High Performance Computing Science", ISBN: 978-973-662-710-1, pp. 78-81. **Indexat Web Of Science.**

6. I. Ungurean, **I. Rusu**, Ş.-G. Pentiuc, *High-Performance Computing on a Supercomputer Based on New-Generation Processors*, Proceedings of the 5th Romania Tier 2 Federation "Grid, Cloud & High Performance Computing Science", ISBN: 978-973-662- 710-1, pp. 96-99. **Indexat ISI Web Of Science.**

7. S. Soiman, **I. Rusu**, S.-G. Pentiuc, "Multilevel Parallelized Forward Algorithm for Hidden Markov Models on IBM Roadrunner Clusters", publicată în volumul conferinței International Conference on Control Systems and Science, 2015, ISBN 978-1-4799-1780-8/15, DOI 10.1109/CSCS.2015.42, pp. 177-182. **Indexat IEEE.**

8. **I. Rusu**, Ş.-G. Pentiuc, A. Rotaru, C.-O. Turcu, "*A performance analysis of parallel eigensolvers for large dense symmetric matrices*", ICSTCC 2014, 17-19 oct. 2014, Sinaia, Romania. **Indexat IEEE**

9. Ş. Şoiman, **I. Rusu**, Ş.-G. Pentiuc, *A parallel accelerated approach of HMM Forward Algorithm for IBM Roadrunner clusters*, 12th International Conference on Development and Application Systems (DAS), Suceava, ROMANIA, MAI 15-17, 2014, **Indexat IEEE Xplore**

10. **I. Rusu**, Ş.-G. Pentiuc, E.-G. Crăciun, S. Soiman, *A Performance Evaluation of QR-eigensolver on IBM Roadrunner cluster for Large Sparse Matrices*, Journal of Applied Computer Science & Mathematics, vol. 14, 2013, ISSN: 2066-4273, pp. 38-41.

## II.     Teza de doctorat

Titlul tezei: *Contribuţii la dezvoltarea tehnicilor de modelare şi simulare prin calcul de înaltă performanţă*
Domeniul: Calculatoare şi Tehnologia Informaţiilor
Coordonator prof. Univ. Dr. Ing. Ştefan-Gheorghe PENTIUC, Facultatea de Inginerie Electrică şi Ştiinţa Calculatoarelor, Universitatea „Ştefan cel Mare" din Suceava

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