



LISTA DE LUCRĂRI
Dr. Ing. Ionela RUSU

I. Lucrări publicate

1. Diaconu A, Lupu SL, **Rusu I**, Risca IM, Salmon L, Molnár G, Bousseksou A, Demont P, Rotaru A., "Piezoresistive Effect in the $[\text{Fe}(\text{Htrz})(2)(\text{trz})](\text{BF}_4)$ Spin Crossover Complex". J. Phys. Chem. Lett., 2017, 8 (13), pp 3147–3151 (**FI =8.709, SRI = 5.522**) WOS:000405252600058 <https://pubs.acs.org/doi/abs/10.1021/acs.jpcclett.7b01111>
2. 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**)
3. S. Soiman, **I. Rusu**, S.-G. Pentiu, , "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**)
4. C.-M. Jureschi, **I. Rusu**, E. Codjovi, J. Linares, Y. Garcia, A. Rotaru, "Thermo- and piezochromic properties of $[\text{Fe}(\text{hyptrz})]A_2 \cdot H_2O$ 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**)
5. E.-G. Crăciun, L. Grisoni, Ș.-G. Pentiu, **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**)
6. **I. Rusu**, Ș.-G. Pentiu, 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.**
7. I. Ungurean, **I. Rusu**, Ș.-G. Pentiu, 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.**

8. 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.**
9. **I. Rusu**, Ș.-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**
10. Ș. Șoiman, **I. Rusu**, Ș.-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**

II. Teza de doctorat

Titlul tezei: *Contribuții la dezvoltarea tehnicilor de modelare și simulare prin calcul de înaltă performanță*

Domeniul: Calculatoare și Tehnologia Informațiilor

Coordonator prof. Univ. Dr. Ing. Ștefan-Gheorghe PENTIUC, Facultatea de Inginerie Electrică și Știința Calculatoarelor, Universitatea „Ștefan cel Mare” din Suceava

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