

**LISTA COMPLETĂ DE LUCRĂRI**  
**structurată conform Metodologiei de concurs**  
**pentru ocuparea posturilor didactice și de cercetare**  
**în Universitatea „Alexandru Ioan Cuza” din Iași**

**a) Lista celor maximum 10 lucrări relevante**

- [Diana-Elena Gratie](#), *Refinement of biomodels using Petri Nets*, TUCS Dissertations No. 216, 2016
- Ștefan Ciobâcă and [Diana-Elena Gratie](#), *Implementing, Specifying, and Verifying the QOI Format in Dafny: A Case Study*. In: International Conference on Integrated Formal Methods. Nikolai Kosmatov, Laura Kovács (Eds.) pp. 35-52. **Lecture Notes in Computer Science**, vol 15234, pp 35–52, Springer, Cham, 2024.
- [Diana-Elena Gratie](#), Bogdan Iancu, Sepinoud Azimi, Ion Petre, *Quantitative model refinement in four different frameworks*. In: From Action Systems to Distributed Systems: The Refinement Approach. Luigia Petre, Emil Sekerinski (Eds.). **CRC Press**, 201-214, 2016
- Sepinoud Azimi, Eugen Czeizler, Cristian Gratie, [Diana Gratie](#), Bogdan Iancu, Nebiat Ibssa, Ion Petre, Vladimir Rogojin, Tolou Shadbahr, Fatemeh Shokri, *An Excursion Through Quantitative Model Refinement*. In: Membrane Computing. Grzegorz Rozenberg, Arto Salomaa, José M. Sempere, Claudio Zandron (Eds.). **Lecture Notes in Computer Science** 9504, Springer, 25-47, 2015
- Bogdan Iancu, [Diana-Elena Gratie](#), Sepinoud Azimi, Ion Petre, *On the Implementation of Quantitative Model Refinement*. In: Algorithms for Computational Biology. Adrian-Horia Dediu, Carlos-Martin Vide, Bianca Truthe (Eds.). **Lecture Notes in Computer Science Springer** 8542, 95-106, 2014
- [Diana-Elena Gratie](#), Bogdan Iancu, Ion Petre, *ODE analysis of biological systems*. In: Formal Methods for Dynamical Systems. Marco Bernardo, Erik de Vink, Alessandra Di Pierro, Herbert Wiklicky (Eds.), **Lecture Notes in Computer Science** 7938, Springer, 29-62, 2013.
- [Diana-Elena Gratie](#) and Cristian Gratie. *Composition colored Petri nets for the refinement of reaction-based models*. **Electronic Notes in Theoretical Computer Science**, Vol. 326C, pp. 51 – 72, 2016
- [Diana-Elena Gratie](#), Ion Petre. *Full structural model refinement as type refinement of colored Petri nets*. In: Proceedings of the 6<sup>th</sup> International Workshop on Biological Processes and Petri Nets. Monika Heiner, Annegret K. Wagler (Eds.), **CEUR Workshop Proceedings** 1373, 70–84, 2015
- [Diana-Elena Gratie](#), Ion Petre, *Hiding the combinatorial state space explosion of biomodels through colored Petri nets*. **Analele Universității din București**. Editura Universității din București, LXI:23-41, 2014

**b) Teza de doctorat**

- [Diana-Elena Gratie](#), *Refinement of biomodels using Petri Nets*, TUCS Dissertations No. 216, 2016

**c) Brevete de inventive și alte titluri de proprietate industrială**

Nu este cazul.

**d) Cărți și capitole în cărți**

Nu este cazul.

**e) Articole/studii *in extenso* publicate în reviste din fluxul științific internațional principal**

- [Diana-Elena Gratie](#), Bogdan Iancu, Sepinoud Azimi, Ion Petre, *Quantitative model refinement in four different frameworks*. In: From Action Systems to Distributed Systems: The Refinement Approach. Luigia Petre, Emil Sekerinski (Eds.). **CRC Press**, 201-214, 2016
- [Diana-Elena Gratie](#), Bogdan Iancu, Ion Petre, *ODE analysis of biological systems*. In: Formal Methods for Dynamical Systems. Marco Bernardo, Erik de Vink, Alessandra Di Pierro, Herbert Wiklicky (Eds.), **Lecture Notes in Computer Science** 7938, Springer, 29-62, 2013.

**f) Articole/studii *in extenso* apărute în lucrări ale principalelor conferințe internaționale de specialitate**

- Ștefan Ciobâcă and [Diana-Elena Gratie](#), *Implementing, Specifying, and Verifying the QOI Format in Dafny: A Case Study*. In: International Conference on Integrated Formal Methods. Nikolai Kosmatov, Laura Kovács (Eds.) pp. 35-52. **Lecture Notes in Computer Science**, vol 15234, pp 35–52, Springer, Cham, 2024.
- [Diana-Elena Gratie](#) and Cristian Gratie. *Composition colored Petri nets for the refinement of reaction-based models*. **Electronic Notes in Theoretical Computer Science**, Vol. 326C, pp. 51 – 72, 2016
- [Diana-Elena Gratie](#), Ion Petre. *Full structural model refinement as type refinement of colored Petri nets*. In: Proceedings of the 6<sup>th</sup> International Workshop on Biological Processes and Petri Nets. Monika Heiner, Annegret K. Wagler (Eds.), **CEUR Workshop Proceedings** 1373, 70–84, 2015
- Sepinoud Azimi, Eugen Czeizler, Cristian Gratie, [Diana Gratie](#), Bogdan Iancu, Nebiat Ibssa, Ion Petre, Vladimir Rogojin, Tolou Shadbahr, Fatemeh Shokri, *An Excursion Through Quantitative Model Refinement*. In: Membrane Computing. Grzegorz Rozenberg, Arto Salomaa, José M. Sempere, Claudio Zandron (Eds.). **Lecture Notes in Computer Science** 9504, Springer, 25-47, 2015
- [Diana-Elena Gratie](#), Ion Petre, *Hiding the combinatorial state space explosion of biomodels through colored Petri nets*. **Analele Universității din București**. Editura Universității din București, LXI:23-41, 2014
- Bogdan Iancu, [Diana-Elena Gratie](#), Sepinoud Azimi, Ion Petre, *On the Implementation of Quantitative Model Refinement*. In: Algorithms for Computational Biology. Adrian-Horia Dediu, Carlos-Martin Vide, Bianca Truthe (Eds.). **Lecture Notes in Computer Science Springer** 8542, 95-106, 2014

**g) Alte lucrări și contribuții științifice**

- [Diana-Elena Gratie](#), Erno Lehtinen, *Player profiles in a mathematics educational game based on eye gaze and game log data*, The 20th Biennial EARLI Conference for Research on Learning and Instruction, 2023
- [Diana-Elena Gratie](#), Marjaana Puurtinen, Erno Lehtinen, *Playing profiles in a mathematics game based on eye movement and game log data*, In: Daniel Barratt, Raymond Bertram, Marcus Nyström, (Eds.). Abstracts of the Scandinavian Workshop on Applied Eye Tracking (SWAET 2018). **Journal of Eye Movement Research**, 11(5), Bern Open Publishing, 2018

- [Diana-Elena Gratie](#), Marjaana Puurtinen, Erno Lehtinen, *Strategies in a mathematics computer game as revealed by eye gaze and log data*, poster, The European Summer School on Eye Movements (ESSEM), 2018
- [Diana-Elena Gratie](#), *Quantitative model refinement with rule-based models, Petri net models, PRISM GCL models*, poster, The Seventh q-bio Conference, 2013