Radu Ştefan Mincu

Contact Information	Department of Computer Science University of Bucharest Str. Academiei, nr. 14 Bucharest 010014 Romania	mincu.radu@fmi.unibuc.ro dblp reference

Research Interests

Techniques for approaching NP-hard problems: Heuristic Algorithms, Metaheuristics, Local Search, Integer Linear Program Modeling, Approximation Algorithms; also Graph Problems, String & Sequence Problems.

Education

University of Bucharest, Romania

Ph.D., Computer Science, *Expected:* late 2019

- Thesis Topic: *Heuristic Algorithms for NP-hard Problems*
- Advisor: Alexandru Popa, Ph.D

M.Sc., Distributed Systems, June 2015

- Topic: *GPU-Based Heuristic Methods for Password Recovery*
- Advisor: Gheorghe Ştefănescu, Ph.D

B.Sc., Computer Science, June 2013

- Topic: *Water Rendering in Computer Graphics*
- Advisor: Mihai Sorin Stupariu, Ph.D

Refereed Publications

1. Biró, P., Gyetvai M., Mincu, R.S., Popa, A. and Verma U., *IP solutions for international kidney exchange programmes*. In 8th VOCAL Optimization Conference: Advanced Algorithms, pp. 17-22, 2018. Journal version under review at CJOR.
2. Mincu, R.S., Obreja, C., Popa, A, *The graceful chromatic number for some particular classes of graphs*. In 21st International Symposium on Symbolic and Numeric Algorithms for Scientific Computing (SYNASC), accepted, presentation due Sept. 2019.
3. Mincu, R.S., *Heuristic Algorithm for Generalized Function Matching*. In 23rd International Conference on Knowledge-Based and Intelligent Information & Engineering Systems (KES), accepted, presentation due Sept. 2019.
4. Mincu, R.S. and Popa, A., *Heuristic algorithms for the Longest Filled Common Subsequence Problem*. In 20th International Symposium on Symbolic and Numeric Algorithms for Scientific Computing (SYNASC), pp. 449-453, 2018.
5. Mincu, R.S. and Popa, A., *Better heuristic algorithms for the Repetition Free LCS and other variants*. In 25th International Symposium on String Processing and Information Retrieval (SPIRE), pp. 297-310, Springer, 2018.
6. Mincu, R.S. and Popa, A., *Heuristic Algorithms for the Min-Max Edge 2-Coloring Problem*. In 24th International Computing and Combinatorics Conference (COCOON), pp. 662-674. Springer, Cham, 2018.
7. Paduraru, C. I., Mincu, R. S. and Stefanescu, G., *Multi-level control mechanisms for non-structured and structured 2-dimensional self-assembling*. In 11th IEEE International Conference on Self-Adaptive and Self-Organizing Systems (SASO), pp. 101-110, 2017.

Preprints

1. Mincu, R.S., and Popa, A. *Heuristics for the maximum equality-free string factorization problem.*

Talks and Awards

1. Biró, P., Gyetvai M., Mincu, R.S., Popa, A. and Verma U., *IP solutions for international kidney exchange programmes.* At EURO 2019, the 30th European Conference on Operations Research, Dublin, Ireland. Date: June 2019.
2. Biró, P., Gyetvai M., Mincu, R.S., Popa, A. and Verma U., *IP solutions for international kidney exchange programmes.* At the *Corvinus Game Theory Seminar*, *Corvinus University of Budapest*, Hungary. Date: February 2019.
3. Best PhD Paper Award at *20th International Symposium on Symbolic and Numeric Algorithms for Scientific Computing SYNASC Ph.D. Colloquium and Poster Session* for paper *Heuristic algorithms for the Longest Filled Common Subsequence Problem*, Timişoara, Romania, September 2018.
4. Mincu, R.S., and Popa, A. *Local search algorithms for the min-max 2-coloring problem.* At *Corvinus University of Budapest*, Hungary. Date: April 2018.
5. Mincu, R.S., and Popa, A. *Local search algorithms for the min-max 2-coloring problem.* At *British Colloquium for Theoretical Computer Science 2018*, Royal Holloway, University of London, United Kingdom. Date: March 2018.
6. Grant winner for the Researcher Mobility Project PN-III-P1-1.1-MC2017-0873 awarded by the Ministry of Education, Research and Innovation, funding the summer school trip to Australia, January 2018.

Workshops and Academic Visits

1. *PhD student long term research visit to Budapest*: Short term scientific mission for the action *European Network for Collaboration on Kidney Exchange Programmes*, Corvinus University of Budapest, Hungary. Host: Prof. Péter Biró, Hungarian Academy of Sciences. Date: January-April 2019.
2. *Research visit Romania-Hungary*: Short term scientific mission for the action *European Network for Collaboration on Kidney Exchange Programmes*, Corvinus University of Budapest, Hungary. Host: Prof. Péter Biró, Hungarian Academy of Sciences. Date: April 2018.
3. *Data61 6th International Optimisation Summer School*, Kioloa, New South Wales, Australia. Host: Prof. Toby Walsh, University of New South Wales. Date: January 2018.

Teaching Experience

Teaching Assistant — Autumn 2015 to present date
Algorithms and Data Structures
Instructor: Alexandru Popa, Ph.D
Previous instructor (2015-2017): Ceterchi Rodica, Ph.D
Department of Computer Science,
University of Bucharest

Teaching Assistant — Spring 2017 to present date
Computer Graphics
Instructors: Mihai Sorin Stupariu, Ph.D
Department of Computer Science,
University of Bucharest

PROGRAMMING SKILLS

- C/C++
- C#
- Java
- Python
- Gurobi ILP Solver (with Python/Java)

REFERENCES

Alexandru Popa, Ph.D alexandru.popa@fmi.unibuc.ro
Associate Professor, Habilitated
Department of Computer Science
University of Bucharest
other affiliation:
National Institute for Research and Development in Informatics (Romania)

Péter Biró, Ph.D peter.biro@krtk.mta.hu
Associate Professor
Department of Operations Research and Actuarial Sciences
Corvinus University of Budapest
other affiliation:
Institute of Economics, Hungarian Academy of Sciences