

Réka Sándor (Nagy)

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Born on July 11, 1985, Cluj Napoca.

Research Interests

Computational Game Theory

Evolutionary Optimization

Heuristic Algorithms

Algorithm Theory and Development

Work Experience

Lecturer at Babeş-Bolyai University

2016 - present

Cluj Napoca, Romania

Teaching Assistant at Babeş-Bolyai University

2013 - 2016

Cluj Napoca, Romania

Programmer at Bungallow.net Internet Services

2008 - 2009

Targu-Mures, Romania

Trainee Researcher at RiscSoftware GmbH

2007 - 2008

Linz, Austria

Education

Ph.D., Babeş-Bolyai University, Cluj Napoca

October 2009 - 2012

Thesis topic: *Evolutionary Techniques in Computational Game Theory*

Scientific adviser: prof. D. Dumitrescu

M.Sc., Johannes Kepler University, Linz

August 2007 - August 2008

Thesis topic: *Meta-heuristics for the Traveling Salesman Problem with Time Windows* - in collaboration with Risc Software GmbH

Scientific adviser: prof. Bruno Buchberger, dr. Petru Pau

B.Sc., Babeş-Bolyai University, Cluj Napoca

October 2003 - July 2007

Language Skills

Hungarian (native language)

English (excellent)

Romanian (excellent)

German (beginner)

Publications

Réka Nagy, Mihai Suci, D. Dumitrescu. Cooperation in Multicriteria Repeated Games. *EVOLVE - A Bridge between Probability, Set Oriented Numerics, and Evolutionary Computation VI. Advances in Intelligent Systems and Computing*, vol 674. Springer, Cham

Réka Nagy, D. Dumitrescu. Evolutionary Equilibrium Detection in Multicriteria Games. *EVOLVE - A Bridge between Probability, Set Oriented Numerics and Evolutionary Computation VII. Studies in Computational Intelligence*, vol 662. Springer, Cham

David Iclanzan, Noémi Gaskó, **Réka Nagy**, D Dumitrescu. Multiobjective Evolution of Mixed Nash Equilibria. *International Conference on Learning and Intelligent Optimization*, Pages 304-314.

Réka Nagy, Mihai Suci, D. Dumitrescu. Lorenz Equilibrium: Equitability in Non-Cooperative Games. (GECCO 2012), *ACM Proceedings of the 14th annual conference on Genetic and evolutionary computation*, 2012, Pages: 489-496, ISBN 978-1-4503-1177-9.

Réka Nagy, Noémi Gaskó, Rodica Ioana Lung, D. Dumitrescu. Between Selfishness and Altruism: Fuzzy Nash–Berge–Zhukovskii Equilibrium. (PPSN 2011), *Lecture Notes in Computer Science*, 2012, Volume 7491/2012, Part 1, Pages 500-509.

Réka Nagy, Mihai Suci, D. Dumitrescu. Exploring Lorenz Dominance. (SYNASC 2012), *14th International Symposium on Symbolic and Numeric Algorithms for Scientific Computing, IEEE*, 2012.

Réka Nagy, D. Dumitrescu, Rodica Ioana Lung. Fuzzy Equilibria for Games Involving $n > 2$ Players. (CEC 2011), *Congress on Evolutionary Computation, IEEE*, 2011, Pages 2655-2661, ISMB 978-1-4244-7834-7.

Réka Nagy, D. Dumitrescu, Rodica Ioana Lung. Lorenz Equilibrium: Concept and Evolutionary Detection. (SYNASC 2011), *13th International Symposium on Symbolic and Numeric Algorithms for Scientific Computing*, 2011, Pages 408-412, ISBN: 978-0-7695-4630-8, DOI 10.1109/SYNASC.2011.46.

Ligia Cremene, D. Dumitrescu, **Réka Nagy**, Noémi Gaskó. Cognitive Radio Simultaneous Spectrum Access. One-shot Game Modelling. (CSNDSP 2012), *8th IET International Symposium on Communication Systems, Networks and Digital Signal Processing, IEEE*, 2012, Pages: 1-6.

D. Dumitrescu, Rodica Ioana Lung, **Réka Nagy**, Daniela Zaharie, Attila Bartha, Doina Logofatu. Evolutionary Detection of New Classes of Equilibria. Application in Behavioral Games. (PPSN 2011), *Lecture Notes in Computer Science*, 2011, Volume 6239/2011, Pages 432-441, ISBN 3-642-15870-6, 978-3-642-15870-4.

D. Dumitrescu, Rodica Ioana Lung, Noémi Gaskó, **Réka Nagy**. Job Scheduling and Bin Packing from a Game Theoretical Perspective. An Evolutionary Approach. (SYNASC 2010), *12th International Symposium on Symbolic and Numeric Algorithms for Scientific Computing, IEEE*, 2011, Pages 209-214, ISBN: 978-1-4244-9816-1, DOI 10.1109/SYNASC.2010.55.

Ligia Cremene, Dumitru Dumitrescu, **Réka Nagy**, Marcel Cremene. Game Theoretic Modelling for Dynamic Spectrum Access in TV Whitespace. (CROWNCOM 2011), *Sixth International ICST Conference on Cognitive Radio Oriented Wireless Networks and Communications, IEEE*, 2011, Pages 336-340, ISBN: 978-1-4577-0140-5.

D. Dumitrescu, Rodica Ioana Lung, Tudor Mihoc, **Réka Nagy**. Fuzzy Nash-Pareto equilibrium: Concepts and Evolutionary detection. (EvoGames 2010), *Lecture Notes in Computer Science*, Volume 6024/2010, Pages 71-79.

D. Dumitrescu, Rodica Ioana Lung, **Réka Nagy**, Daniela Zaharie, Attila Bartha. Exploring Evolutionary Detected Fuzzy Equilibria: A Link Between Normative Theory and Real Life. (GECCO 2010), *ACM Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 2010, Pages: 539-540, ISBN 978-1-4503-0072-8.

Ligia Cremene, D. Dumitrescu, **Réka Nagy**. Oligopoly Game Modeling for Cognitive Radio Environments. (ruSMART/NEW2AN 2010), *Lecture Notes in Computer Science*, 2010, Volume 6294/2010, Pages 219-230, ISBN 3-642-14890-5, 978-3-642-14890-3.

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