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Education

Ph.D. Operations Research, Columbia University, 2007.

Dissertation: On the performance of simple algorithms for solving NP-hard problems.

Advisor: Prof. Cliff Stein.

M.Sc. Operations Research, Columbia University, 2002.

B.Sc. Computer Science, University of Iceland, 1999.

C.Sc. Mechanical and Industrial Engineering, University of Iceland, 1998.

Employment

Assistant Professor, Reykjavík University, School of Science and Engineering, Jan 2007 – present.

Undergraduate Courses: Intro to Operations Research, Operations Research II, Programming (c++).

Masters Level Courses: Optimization Methods, Optimization Applications.

Other Work Experience

Programmer & Software Designer, AGR, Reykjavík, Iceland. Jan 1999 – Sep 2000, May 2001 – Sep 2001, 2003 – 2007. Consulting: 2007–present.

Lecturer/Instructor, Reykjavík University, School of Business.

Courses: Operation Management.

Teaching Assistant, Columbia University, IEOR Department, NY, USA, Sep 2002 – May 2005.

Courses: Mathematical Programming, Analysis of Algorithms, Applied Integer Programming, Production Scheduling.

Programmer & Data analyst, Calidris Ltd, Reykjavík, Iceland. Jun 2002 – Sep 2002.

Database Programmer, US Army Base, Keflavík, Iceland. Jun 1996 – Sep 1996, Jun 1997 – Sep 1997.

Refereed Publications

- E. I. Ásgeirsson (2012). *Bridging the gap between self schedules and feasible schedules in staff scheduling*. *Annals of Operations Research*. Accepted.
- E. I. Ásgeirsson, J. Kyngäs, K. Nurmi and M. Stølevik (2011). A Framework for Implementation-Oriented Staff Scheduling. *5th Multidisciplinary International Scheduling Conference: Theory & Applications (MISTA)*.
- E. I. Ásgeirsson, G. S. Axelsdóttir and H. Stefánsson (2011). Automating a manual production scheduling process at a pharmaceutical company. *IEEE Symposium Series in Computational Intelligence, Workshop on Computational Intelligence in Production and Logistics Systems (CIPLS)*.
- E. I. Ásgeirsson and P. Mitra (2011). On a game theoretic approach to capacity maximization in wireless networks. *The 30th IEEE International Conference on Computer Communications (INFOCOM)*.
- E. I. Ásgeirsson (2010). Bridging the gap between self schedules and feasible schedules in staff scheduling. *Proceedings of the 8th International Conference on the Practice and Theory of Automated Timetabling (PATAT)* (pp. 81–96).
- E. I. Ásgeirsson and C. Stein (2009). Bounded-space online bin cover. *Journal of Scheduling*, Vol. 12, Issue 5 (pp. 461–474).
- E. I. Ásgeirsson and C. Stein (2009). Divide-and-Conquer Approximation Algorithm for Vertex Cover. *SIAM Journal on Discrete Mathematics*, Vol. 23, Issue 3 (pp. 1261–1280).
- E. I. Ásgeirsson and C. Stein (2007). Vertex Cover Approximations on Random Graphs. *Proceedings of the 6th International Workshop on Experimental and Efficient Algorithms* (pp. 285–296).
- E. I. Ásgeirsson and C. Stein (2006). Using Markov chains to design algorithms for on-line bounded-space bin-cover. *Proceedings of the ACM-SIAM workshop on algorithm engineering and experiments* (pp. 75–85).
- E. I. Ásgeirsson and C. Stein (2005): Vertex cover approximations: Experiments and observations. *Proceedings of the 4th International Workshop on Experimental and Efficient Algorithms* (pp. 545–557).
- E. I. Ásgeirsson, J. Berry, C. A. Phillips, D. J. Phillips, C. Stein and J. Wein (2004). Scheduling an Industrial Production Facility. *Proceedings of the 10th International Integer Programming and Combinatorial Optimization (IPCO) Conference* (pp. 116–131).
- E. I. Ásgeirsson, U. Ayesta, E. G. Coffman Jr., J. Etra, P. Momcilovic, D. Phillips, V. Vokshoori, Z. Wang, J. Wolfe (2002). Closed On-Line Bin Packing. *Acta Cybernetica*.

Other Publications

- H. Stefánsson, E. I. Ásgeirsson and S. Ólafsson (2011). Icelandic Operations Research Society, *Wiley Encyclopedia of Operations Research and Management Science*.
- S. Arason, E. I. Ásgeirsson, P. Olsen, B. Margeirsson, S. Margeirsson and H. Stefánsson (2009). Decision support systems for the food industry. *New Directions in Decision Support Systems: Methodologies and Applications*. C.P. Lim and L.C. Jain (editors) Springer-Verlag.
- Ph.D. Thesis (2007). On the Performance of Simple Algorithms for Solving NP-hard Problems. Department of Industrial Engineering and Operations Research, Columbia University.

Working Papers

E. Shafiei, H. Porkelsson, E. I. Ásgeirsson, B. Davíðsdóttir, M. Raberto and H. Stefánsson. *An Agent-based Modeling Approach to Predict the Evolution of Market Share of Electric Vehicles: A Case Study from Iceland*. Submitted.

R. M. Ragnarsson, H. Stefánsson and E. I. Ásgeirsson. *Meta-Heuristics in Multi-Core Environments*. Submitted.

E. I. Ásgeirsson, M. M. Halldórsson and P. Mitra. *Algorithms for Throughput Performance in the SINR Model*. Submitted.

E. I. Ásgeirsson, M. M. Halldórsson and P. Mitra. *A Fully Distributed Algorithm for Throughput Performance in Wireless Networks*. Submitted.

A. Ólafsson, S. Margeirsson, E. I. Ásgeirsson, H. Stefánsson and S. Arason. *Data Collection and Use in the Icelandic Fishing Industry*. Submitted.

Conference Participation

ASDOM 2011 - International Workshop on Advances in Simulation-Driven Optimization and Modeling.
Presentation.

MAPSP 2011 - 10th Workshop on Models and Algorithms for Planning and Scheduling Problems.
Presentation & abstract.

INFOCOM 2011 - The 30th IEEE International Conference on Computer Communications.
Presentation & publication.

PATAT 2010 - 8th International Conference on the Practice and Theory of Automated Timetabling.
Presentation & publication.

SWAT 2010 - 12th Scandinavian Symposium and Workshops on Algorithm Theory.

WRAWN 2010 - Workshop on Realistic Models for Algorithms in Wireless Networks.

MAPSP 2009 - 9th Workshop on Models and Algorithms for Planning and Scheduling Problems.
Presentation & abstract.

INFORMS 2008 - Inform's Annual Meeting.
Abstract.

EURO 2007 - 22nd European Conference on Operational Research.
Presentation & abstract.

MAPSP 2007 - 8th Workshop on Models and Algorithms for Planning and Scheduling Problems.
Presentation & abstract.

WEA 2007 - 6th Workshop on Experimental Algorithms.
Presentation & publication.

EURO 2006 - 21st European Conference on Operational Research.
Presentation & abstract.

Alenex 2006 - 8th Workshop on Algorithm Engineering and Experiments.
Presentation & publication.

WEA 2005 - 4th International Workshop on Efficient and Experimental Algorithms.
Presentation & publication.

IPCO 2004 - 10th International Conference on Integer Programming and Combinatorial Optimization.
Presentation & publication.

Grants

Icelandic Centre for Research (RANNIS), The Technology Development Fund, 2011. Project grant for 9 million ISK/year for a period of three years.

Icelandic Centre for Research (RANNIS), The Icelandic Research Fund, 2011. Co-applicant. Principal Investigator: Magnús Már Halldórsson. Grant of excellence for 60 million ISK for a period of three years. Project: Design of Ad-Hoc Wireless Networks.

Icelandic Centre for Research (RANNIS), The Equipment Fund, 2011. Co-applicant. Principal Investigator: Andrei Manolescu. Equipment: Computer cluster for multidisciplinary scientific research. 11.339.000 ISK.

Boards and Committees

Member of the Research Council of the School of Science and Engineering at Reykjavík University (2008 – present).

Member of the Curriculum Council of the School of Science and Engineering at Reykjavík University (2009 – present).

Professional Activities

Treasurer for the Operational Research Society of Iceland (ARFÍ).

Reviewer for: *ACM Transactions On Algorithms, European Journal of Operational Research, Information Processing Letters, The Computer Journal, Journal of Scheduling, Journal of Experimental Algorithms, European Symposium on Algorithms, International Symposium on Algorithms and Computation, Journal of Discrete Algorithms.*