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1. EDUCATION

1997-2000 PhD in Control Systems

Department of Automatic Control & Systems Engineering, University of Sheffield

1996-1997 MSc in Control Systems (Pass with distinction)

Department of Automatic Control & Systems Engineering, University of Sheffield

1991-1995 BSc in Automation

Department of Automation, Technological Educational Institute (TEI) of Piraeus

2. ACADEMIC POSITIONS HELD

2003- Assistant Professor in Computer Science & Engineering
School of Computer Science & Engineering, European University Cyprus

2002-2003 Scientific Collaborator in CAD/CAM Systems
Department of Automation, Technological Educational Institute (TEI) of Piraeus

2002-2003 Course Tutor in Electronic Commerce
Technological Educational Institute (TEI) of Piraeus & University of Paisley

1998-2000 Teaching Assistant in Robotics, Manufacturing & Discrete Event Systems
Department of Automatic Control & Systems Engineering, University of Sheffield

1999-2000 Designer of Web-based Educational Tools
Department of Automatic Control & Systems Engineering, University of Sheffield

1997-1998 Programmable Logic Controllers Laboratory Demonstrator
Department of Automatic Control & Systems Engineering, University of Sheffield

3. PUBLICATIONS

Doctoral Dissertation

Subject: "Genetic Programming for Manufacturing Optimisation"

Supervisors: Dr. Ali Zalzal & Dr. Neil Mort

Brief synopsis: The use of genetic programming techniques for the solution of manufacturing optimisation problems was investigated. Experimental results depicted that genetic programming can provide solutions at least as good as conventional optimisation algorithms for common manufacturing optimization tasks such as scheduling, process planning and cellular manufacturing.

Book chapters

1. Riezebos, J., Hoc, J-M., Mebarki, N., Dimopoulos, C., Wezel, W.M.C. van, Pinot, G., "Design of Planning & Scheduling Algorithms: A Critical Discussion", *Human and Organisational Factors in Production Planning and Scheduling*, in press.
2. Dimopoulos, C., "Evolutionary Optimization in Production Research" in Jean-Philippe Rennard ed., *Handbook of Nature Inspired Computing in Economics and Management*, Idea Publishing, Chapter XXXII, pp.483-497, 2007.

Journal articles

1. Dimopoulos, C., "Explicit consideration of multiple objectives in cellular manufacturing", *Engineering Optimization*, vol. 39, no.5, pp.551-565, 2007
2. Dimopoulos, C., "Multiobjective optimisation of manufacturing cell design", *International Journal of Production Research, Special Issue on "Advances in Evolutionary Computation for Design and Manufacturing Problems"*, vol.44, no.22, pp.4855-4875, 2006.
3. Dimopoulos, C., and Mort, N., "Evolving knowledge for the solution of clustering problems in cellular manufacturing", *International Journal of Production Research*, vol.42, no.19, pp 4119-4133, 2004.
4. Dimopoulos, C. and Zalzal, A.M.S, "Investigating the use of genetic programming for a classic one-machine scheduling problem", *Advances in Engineering Software, Elsevier Journal Special Edition - Evolutionary and Adaptive Computing in Design and Manufacture 2000*, vol.32, no.6, pp.489-498, 2001.
5. Dimopoulos, C., and Mort, N., "A hierarchical clustering methodology based on genetic programming for the solution of simple cell-formation problems", *International Journal of Production Research*, vol.39, no.1, pp.1-19, 2001.
6. Dimopoulos, C., and Zalzal, A.M.S., "Recent developments in evolutionary computation for manufacturing optimisation: problems, solutions and comparisons", *IEEE Transactions in Evolutionary Computation*, vol.4, no.2, pp.93-113, 2000.

Conference presentations

1. Dimopoulos, C., “An Interactive Decision Support System For Multi-Objective Scheduling Tasks”, in the *1st Human and Organisational Factors in Planning and Scheduling Conference (HOPS 2008)*, Electronic Proceedings, Lausanne, Switzerland, September 2008.
2. Riezebos, J., Dimopoulos, C., Wezel, W.M.C., van, Hoc, J-M., Mebarki, N., Pinot, G., “Algorithm Design With Human And Organizational Considerations For Planning And Scheduling Problems”, in the *1st Human and Organisational Factors in Planning and Scheduling Conference (HOPS 2008)*, Electronic Proceedings, Lausanne, Switzerland, September 2008.
3. Riezebos, J., Hoc, J-M., Mebarki, N., Dimopoulos, C., Wezel, W.M.C. van, Pinot, G., “Design of Scheduling Algorithms”, in the *European Operations Management Association (EUROMA 2008) Conference*, Electronic Proceedings, Groningen, The Netherlands, June 2008.
4. Dimopoulos, C., “An evolutionary multi-objective decision tool for job-shop scheduling”, in the *11th International Conference on Human Aspects of Advanced Manufacturing Agility and Hybrid Automation (HAAMAHA 2007)*, Karwowski, W. and Trzcielinski, S. (eds), pp.371-382, Poznan, Poland, July 2007.
5. Dimopoulos, C., “Evolution of priority rules for simple assembly line balancing problems”, in *Industrial Engineering & Systems Management 2007 (IESM 2007)*, CD-ROM Proceedings, Beijing, China, May-June 2007.
6. Dimopoulos, C., “Multiple objectives in cellular manufacturing: An evolutionary approach”, in *Adaptive Computing in Design and Manufacture (ACDM 2006)*, Parmee, I.C., (ed.), pp.91-95, Bristol, UK, April 2006.
7. Dimopoulos, C., “A novel approach for the solution of the multiobjective cell-formation problem”, in *Proceedings of the International Conference of Production Research (ICPR '05)*, Salerno, Italy, August 2005.
8. Dimopoulos, C., “A Genetic Programming methodology for the solution of the multi-objective cell-formation problem”, in *Proceedings of the Joint Conference in Information Systems (JCIS '05)*, Heng-Da Cheng (ed.), (CD version only, ISBN 0-9707890-3-3), Salt Lake City, USA, July 2005.
9. Dimopoulos, C., “A Review of Evolutionary Multiobjective Optimization Applications in the Area of Production Research”, in *Proceedings of the Congress on Evolutionary Computation (CEC '04)*, vol.2, pp.1487-1494, Oregon, USA, June 2004. IEEE Press.
10. Dimopoulos, C. and Mort, N., “Solving cell-formation problems under alternative quality criteria and constraints with a genetic programming-based hierarchical clustering algorithm”, in *Proceedings of the Sixth International Conference on Control, Automation, Robotics and Vision*, pp.3445-3446, Singapore, 5-8 December, 2000.

11. Dimopoulos, C. and Mort, N., "Evolving similarity coefficients for the solution of cellular manufacturing problems", in *Proceedings of the Congress on Evolutionary Computation (CEC 2000)*, pp.617-624, San Diego, California, USA, July 2000. IEEE Press.
12. Dimopoulos, C. and Mort, N., "A genetic programming-based hierarchical clustering procedure for the solution of the cell-formation problem ",in *Adaptive Computing in Design and Manufacture (ACDM 2000)*, Parmee, I.C., (ed.), pp. 211-222, Plymouth, April 2000. Springer.
13. Dimopoulos, C. and Mort, N., "Genetic programming for cellular manufacturing", in *Proceedings of the 2nd Workshop on European Scientific and Industrial Collaboration (WESIC '99)*, Roberts, G.N., and Tubb, C.A.J., (eds.), Newport, Gwent, September 1999. Mechatronics Research Centre.
14. Dimopoulos, C. and Zalzal, A.M.S., "Evolving scheduling policies through a genetic programming framework", in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO '99)*, Banzhaf, W., et al. (eds.), vol. 2, pp.1231, Orlando, Florida, USA, July 1999. Morgan Kaufmann.
15. Dimopoulos, C. and Zalzal, A.M.S., "A genetic programming heuristic for the one-machine total tardiness problem", in *Proceedings of the Congress on Evolutionary Computation (CEC '99)*, vol.3, pages 2207-2214, Washington D.C., USA, July 1999. IEEE Press.
16. Dimopoulos, C. and Zalzal, A.M.S, "Optimisation of cell configuration and comparisons using evolutionary computation approaches", in *IEEE World Congress on Evolutionary Computation (ICEC '99)*, pp.148-153, Anchorage, Alaska, May 1998. IEEE.
17. Dimopoulos, C. and Zalzal, A.M.S, "Evolutionary computation approaches to cell optimisation", in *Adaptive Computing in Design and Manufacture (ACDM '98)*, Parmee, I.C., (ed.), pp. 69-83, Plymouth, April 1998. Springer.

4. FUNDED RESEARCH

- 2008-2010** Cyprus Research Promotion Foundation: **Pediatric Electronic Medical Record**. Researcher responsible for requirements elicitation and specification activities. (Total budget: 170000 Euros)
- 2004-2008** COST Action A29: HOPS: **Human and Organizational Factors in Production Planning and Scheduling**. Facilitator of the Activity "Supporting multi-objective scheduling subtasks of a planner: task allocation, visualization and interaction aspects". (Total budget: 4.5 Million Euros)
- 2007-2008** Eureka Cyprus: **E!3118-EUROLEARN EUROPEAN WELDER**. Researcher in the requirements elicitation and development phase of the project (59225 CYP)
- 2006-2007** Cyprus College Research Fund: "An evolutionary framework for the solution of multi-objective scheduling problems"

2006-2007 Cyprus College Research Fund: “A Genetic Programming methodology for the solution of the assembly line balancing problem”

5. AWARDS & HONORS

2002 Outstanding Paper of the year 2002 award, IEEE Transactions on Evolutionary Computation

1997 Distinction grade, MSc in Control Systems

1996 3-year full postgraduate studies scholarship, Greek State Fund (I.K.Y.)

6. COURSES TAUGHT

Postgraduate courses

Requirements Engineering & Management, Electronic Commerce, Robotics & Manufacturing.

Undergraduate courses

Software Engineering, Systems Analysis & Design, Digital Design, Introduction to Evolutionary Computing, Network Security, Computer Fundamentals & Applications, Introduction to Microcomputer Applications, CAD\CAM Systems.

7. ADVISORY EXPERIENCE

Selected Undergraduate final year projects

2007 An Evolutionary Approach to the Solution of the Magic Square Problem, Oblovatskiy Alexander

2006 Evolutionary Sudoku Solver, Vassou Charitos

2005 Pathologist’s Electronic Companion, Kyriacou George

2005 On-Line Market Store, Rami Abdo

2004 Data Encryption – Software Algorithms & Implementation, Pastos Constantinos

8. ADMINISTRATIVE EXPERIENCE

2007- Vice-Chair of the Department of Computer Science, School of Sciences and Engineering, European University

2007-2008 Member of the Senate, European University

- 2006-2008** Program Coordinator of the Bachelor in Computer Science degree, Cyprus
- 2004-2008** Member of the Research Committee of the Department of the Computer Science & Engineering, Cyprus College
- 2003-2008** Member of the Hiring Committee of the Department of Computer Science & Engineering, Cyprus College

9. PROFESSIONAL ACTIVITIES

Affiliations

- 2004-** Member, Institute of Electrical and Electronic Engineers
- 2004-** Member, IEEE Computational Intelligence Society

Reviewing Activities

- 2007-** Reviewer, International Journal of Computational Intelligence & Applications
- 2007-** Reviewer, Engineering Optimization
- 2007-** Reviewer, Computers & Operational Research
- 2007-** Reviewer, Computers & Operational Research
- 2005-** Reviewer, Computers and Industrial Engineering
- 2005-** Reviewer, International Journal of Computational Intelligence
- 2004-** Reviewer, International Journal of Production Research