

Mustafa MISIR

Curriculum Vitæ

College of Computer Science & Technology
Nanjing University of Aeronautics & Astronautics
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EDUCATION

Ph.D. KU Leuven, Computer Science, 2009–2012. Advisors: Patrick De Causmaecker, Greet Vanden Berghe and Katja Verbeeck
M.Sc. Yeditepe University, Computer Engineering, 2007–2008. Advisor: Ender Özcan
B.Sc. Yeditepe University, Computer Engineering, 2002–2007. Advisor: Ender Özcan

OTHER EDUCATIONAL ACTIVITIES

Operations Management Summer Camp by Lee Kong Chian School of Business @ SMU, 2014
Program Analysis and Verification Spring School by Labex Digicosme @ Supelec, 2013
A Forum in Computation, Inference and Optimization by Michael Jordan (U.C. Berkeley) @ IHES, 2013
Symposium on OR Problems and AI Techniques by KU Leuven & VUB @ KU Leuven, 2011
Dynadec/COMET Training by Pascal Van Hentenryck (Brown U.) @ Louvain-la-Neuve, 2009
Hyper-heuristics Summer School by Rong Qu & Gabriela Ochoa (U. Nottingham) @ Istanbul TU, 2007

EXPERIENCE

Apr. 2016–present	Associate Professor, Institute of Machine Learning and Computational Intelligence, College of Computer Science and Technology, Nanjing University of Aeronautics and Astronautics, China
Jan. 2015–Mar. 2016	Postdoctoral Researcher, Machine Learning for Automated Algorithm Design (ML4AAD) Research Group, Department of Computer Science, University of Freiburg, Germany
Nov. 2013–Jan. 2015	Postdoctoral Researcher, Living Analytics Research Centre (LARC) (a joint institute with Carnegie Mellon University), School of Information Systems, Singapore Management University, Singapore
Oct. 2012–Nov. 2013	Postdoctoral Researcher (ERCIM Marie Curie Fellow), Machine Learning and Optimisation (TAO) Team, LRI, Université Paris-Sud XI - INRIA Saclay, France
Oct. 2013–Oct. 2013	Visiting Researcher, Dynamic and Distributed Information Systems (DDIS) Group, Department of Informatics, University of Zurich, Switzerland
June 2013–June 2013	Visiting Researcher, Laboratory for Relational Algorithmics, Complexity and Learning (LARCA), Department of Software, Universitat Politècnica de Catalunya, Spain
Jan. 2009–Oct. 2012	Doctoral Researcher, Combinatorial Optimisation and Decision Support (CODeS) Research Group, Department of Computer Science, KU Leuven, Belgium
Sept. 2007–Aug. 2008	Research Assistant, Artificial Intelligence (AR+I) Laboratory, Department of Computer Engineering, Yeditepe University, Turkey
Sept. 2007–Aug. 2008	Teaching Assistant, Department of Computer Engineering, Yeditepe University, Turkey
June 2007–Sept. 2007	Researcher, Artificial Intelligence (AR+I) Laboratory, Department of Computer Engineering, Yeditepe University, Turkey
Dec. 2005–June 2007	Software Developer, Logic Information Systems & Consultant Plc., Turkey
Sept. 2006–June 2007	Student Assistant, Department of Computer Engineering, Yeditepe University, Turkey
July 2006–Aug. 2006	Intern as a Software Developer, Nortel Networks Netas R&D, Turkey

- June 2005–Sept. 2005 Intern as a Database Developer, Data Automation Center, Yeditepe University, Turkey
- June 2005–Sept. 2005 Intern as a Research Assistant, Network Laboratory, Department of Computer Engineering, Yeditepe University, Turkey

TEACHING /~ ASSISTANCE

- Fall 2015 Machine Learning and Optimization for Algorithm Design @ Department of Computer Science, University of Freiburg
- Fall 2014 Guided Research in Information Systems (IS470) @ School of Information Systems, Singapore Management University
- Fall 2010 Optimisation Techniques (59235) @ Department of Computer Science, KU Leuven
- Spring 2008 Data Structures (CSE211), Software Engineering (CSE344), Data Communications & Computer Networks (CSE471), Special Topics in Computer Networks (CSE402) @ Department of Computer Engineering, Yeditepe University
- Fall 2007 Data Structures (CSE211), Introduction to Artificial Intelligence (CSE462), Software Engineering (CSE344) @ Department of Computer Engineering, Yeditepe University
- Spring 2007 Computer Programming Practices (CSE112), Principles of Programming Languages (CSE252), Analysis of Algorithms (CSE311) @ Department of Computer Engineering, Yeditepe University
- Fall 2006 Computer Programming Practices (CSE112), Principles of Programming Languages (CSE252), Digital Electronics (CSE321) @ Department of Computer Engineering, Yeditepe University

COLLABORATORS

I have published/submitted/been working on papers with the following 28 co-authors: Abraham Bernstein (U. Zurich), Aldy Gunawan (Singapore Management U.), Burak Bilgin (KU Leuven), Edmund K. Burke (U. Nottingham/Stirling), Josep Carmona (U. Polit cnica de Catalunya), Patrick De Causmaecker (KU Leuven), Shih-Fen Cheng (Singapore Management U.), Peter Demeester (KAHO-KU Leuven), Daniel Handoko (Singapore Management U.), Frank Hutter (U. Freiburg), Graham Kendall (U. Nottingham), Ahmed Kheiri (U. Nottingham/Cardiff), Jorg-Uwe Kietz (U. Zurich), Hoong Chuin Lau (Singapore Management U.), Jiang Lingxiao (Singapore Management U.), Gabriela Ochoa (U. Nottingham/Stirling), Ender  zcan (U. Nottingham), Joel Ribeiro (U. Polit cnica de Catalunya), Michele Sebag (CNRS-INRIA-U. Paris Sud XI), Floarea Serban (U. Zurich), Pieter Smet (KU Leuven), Wim Vancroonenburg (KU Leuven), Greet Vanden Berghe (KU Leuven), Pradeep Varakantham (Singapore Management U.), Katja Verbeeck (KAHO-KU Leuven), Markus Wagner (U. Adelaide), Tony Wauters (KU Leuven), Li Xiang (Singapore Management U.)

WORKING PAPERS

1. “ADVISER⁺: Toward a Usable Web-based Algorithm Portfolio Deviser” (joint work Hoong Chuin Lau, Jiang Lingxiao and Li Xiang).
2. “A Survey on Automated Algorithm Design” (joint work with Katja Verbeeck, Patrick De Causmaecker, Greet Vanden Berghe and Hoong Chuin Lau).
3. “A Runtime Prediction Strategy for Batch-Mode Selection Hyper-heuristics”.

JOURNAL PAPERS

4. “Design and Analysis of a Hyper-heuristic Framework” (joint work with Katja Verbeeck, Patrick De Causmaecker and Greet Vanden Berghe), *under review*, **CHeSC 2011 Winner**.
5. “ALORS: an Algorithm Recommender System” (joint work with Michele Sebag), *Artificial Intelligence*, Elsevier, *to appear*.
6. “An Analysis of Generalised Heuristics for Vehicle Routing and Personnel Rostering Problems” (joint work with Pieter Smet and Greet Vanden Berghe), *Journal of the Operational Research Society*, 66(5), Palgrave Macmillan, 2015.

7. “An Investigation on the Generality Level of Selection Hyper-heuristics under Different Empirical Conditions” (joint work with Katja Verbeeck, Patrick De Causmaecker and Greet Vanden Berghe), *Applied Soft Computing*, 13(7), Elsevier, 2013.
8. “A New Hyper-heuristic as a General Problem Solver: an Implementation in HyFlex” (joint work with Katja Verbeeck, Patrick De Causmaecker and Greet Vanden Berghe), *Journal of Scheduling*, 16(3), Springer, 2013.
9. “One Hyperheuristic Approach to Two Timetabling Problems in Health Care” (joint work with Burak Bilgin, Peter Demeester, Wim Vancroonenburg and Greet Vanden Berghe), *Journal of Heuristics*, 18(3), Springer, 2012.
10. “Monte Carlo Hyper-heuristics for Examination Timetabling” (joint work with Edmund Burke, Graham Kendall and Ender Özcan), *Annals of Operations Research*, 196(1), Springer, 2012.
11. “A Reinforcement Learning - Great-Deluge Hyper-heuristic for Examination Timetabling” (joint work with Ender Özcan, Gabriela Ochoa and Edmund Burke), *International Journal of Applied Metaheuristic Computing*, 1(1), IGI Global, 2010.

BOOK CHAPTERS

12. “Towards Personalized Data-driven Bundle Design with QoS Constraint” (joint work with Shih-Fen Cheng, Hoong Chuin Lau and Pradeep Varakantham), *under review*.
13. “A Hyper-heuristic with Learning Automata for the Traveling Tournament Problem” (joint work with Tony Wauters, Katja Verbeeck and Greet Vanden Berghe), *Metaheuristics: Intelligent Decision Making, the 8th Metaheuristics International Conference - Post Conference Volume*, Operations Research/Computer Science Interfaces Series, Springer, 2011.

INTERNATIONAL CONFERENCE / WORKSHOP PAPERS

14. “Ensemble Move Acceptance in Selection Hyper-heuristics” (joint work Ahmed Kheiri and Ender Ozcan), in *the 31st International Symposium on Computer and Information Sciences*, Krakow, Poland, Oct. 2016.
15. “Designing and Comparing Multiple Portfolios of Parameter Configurations for Online Algorithm Selection” (joint work with Aldy Gunawan and Hoong Chuin Lau), in *the 10th Learning and Intelligent Optimization Conference*, Napoli, Italy, May-June 2016.
16. “Designing a Portfolio of Parameter Configurations for Online Algorithm Selection” (joint work with Aldy Gunawan and Hoong Chuin Lau), in *the 29th AAAI Conference on Artificial Intelligence: Workshop on Algorithm Configuration*, Austin/Texas, USA, Jan. 2015.
17. “OSCAR: Online Selection of Algorithm Portfolios with Case Study on Memetic Algorithms” (joint work with Daniel Handoko and Hoong Chuin Lau), in *Proceedings of the 9th Learning and Intelligent Optimization Conference, LNCS 8994*, Lille, France, Jan. 2015, **Best Paper Runner-up**.
18. “ADVISER: A Web-based Algorithm Portfolio Deviser” (joint work with Daniel Handoko and Hoong Chuin Lau), in *Proceedings of the 9th Learning and Intelligent Optimization Conference, LNCS 8994*, Lille, France, Jan. 2015.
19. “A Recommender System for Process Discovery” (joint work with Joel Ribeiro, Josep Carmona and Michele Sebag), in *Proceedings of the 12th International Conference on Business Process Management, LNCS 8659*, Eindhoven, Netherlands, Sep. 2014.
20. “Diversity-Oriented Bi-Objective Hyper-heuristics for Patrol Scheduling” (joint work with Hoong Chuin Lau), in *Proceedings of the 10th International Conference on the Practice and Theory of Automated Timetabling*, York, UK, Aug. 2014.
21. “Building Algorithm Portfolios for Memetic Algorithms” (joint work with Daniel Handoko and Hoong Chuin Lau), in *Proceedings of the 16th Annual Conference on Genetic and Evolutionary Computation Companion*, Vancouver/British Columbia, Canada, Jul. 2014.

22. “A Dynamic Bundle Recommender System for Leisure Parks” (joint work with Shih-Fen Cheng, Hoong Chuin Lau and Pradeep Varakantham), in *the Production and Operations Management Society International Conference*, Singapore, Jul. 2014.
23. “Group Decision Making in Selection Hyper-heuristics” (joint work with Ender Özcan and Ahmed Kheiri), in *Proceedings of the 13th Annual Workshop on Computational Intelligence*, Surrey, UK, Sep. 2013.
24. “The Effect of the Set of Low-level Heuristics on the Performance of Selection Hyper-heuristics” (joint work with Katja Verbeeck, Patrick De Causmaecker and Greet Vanden Berghe), in *Proceedings of the 12th International Conference on Parallel Problem Solving From Nature, LNCS 7492*, Taormina, Italy, Sep. 2012.
25. “An Intelligent Hyper-heuristic Framework for CHeSC 2011” (joint work with Katja Verbeeck, Patrick De Causmaecker and Greet Vanden Berghe), in *Proceedings of the 6th Learning and Intelligent Optimization Conference, LNCS 7219*, Paris, France, Jan. 2012, **CHeSC 2011 Winner**.
26. “A New Hyper-heuristic Implementation in HyFlex: a Study on Generality” (joint work with Patrick De Causmaecker, Greet Vanden Berghe and Katja Verbeeck), in *Proceedings of the 23rd Benelux Conference on Artificial Intelligence*, Gent, Belgium, Nov. 2011.
27. “Security Personnel Routing and Rostering: a Hyper-heuristic Approach” (joint work with Pieter Smet, Greet Vanden Berghe and Katja Verbeeck), in *Proceedings of the 3rd International Conference on Applied Operational Research, LNMS 3*, Istanbul, Turkey, Aug. 2011.
28. “A New Hyper-heuristic Implementation in HyFlex: a Study on Generality” (joint work with Katja Verbeeck, Patrick De Causmaecker and Greet Vanden Berghe), in *Proceedings of the 5th Multidisciplinary International Scheduling Conference: Theory & Applications*, Phoenix/Arizona, USA, Aug. 2011.
29. “A Selection Hyper-heuristic for Scheduling Deliveries of Ready-Mixed Concrete” (joint work with Wim Vancroonenburg, Katja Verbeeck and Greet Vanden Berghe), in *Proceedings of the 9th Metaheuristics International Conference*, Udine, Italy, Jul. 2011.
30. “A Hyper-heuristic Combined with a Greedy Shuffle Approach to the Nurse Rostering Competition” (joint work with Burak Bilgin, Peter Demeester, Wim Vancroonenburg, Greet Vanden Berghe and Tony Wauters), in *the 8th International Conference on the Practice and Theory of Automated Timetabling*, Belfast, Northern Ireland, Aug. 2010, **INRC 2010 Finalist**.
31. “A Hyper-heuristic Approach for Assigning Patients to Hospital Rooms” (joint work with Wim Vancroonenburg, Burak Bilgin, Peter Demeester and Greet Vanden Berghe), in *Proceedings of the 8th International Conference on the Practice and Theory of Automated Timetabling*, Belfast, Northern Ireland, Aug. 2010.
32. “Hyper-heuristics with a Dynamic Heuristic Set for the Home Care Scheduling Problem” (joint work with Katja Verbeeck, Patrick De Causmaecker and Greet Vanden Berghe), in *Proceedings of the IEEE Congress on Evolutionary Computation*, Barcelona, Spain, Jul. 2010.
33. “A Hyper-heuristic Approach to the Home Care Scheduling Problem” (joint work with Patrick De Causmaecker, Katja Verbeeck and Greet Vanden Berghe), in *Proceedings of the 14th Belgian-French-German Conference on Optimization*, Leuven, Belgium, Sep. 2009.
34. “A Hyper-heuristic Approach to the Patient Admission Scheduling Problem” (joint work with Burak Bilgin, Peter Demeester, Katja Verbeeck, Patrick De Causmaecker and Greet Vanden Berghe), in *Proceedings of the 35th International Conference of Operational Research Applied to Health Services*, Leuven, Belgium, Jul. 2009.
35. “A New Learning Hyper-heuristic for the Traveling Tournament Problem” (joint work with Tony Wauters, Katja Verbeeck and Greet Vanden Berghe), in *Proceedings of the 8th Metaheuristics International Conference*, Hamburg, Germany, Jul. 2009.
36. “A Self-organising Hyper-heuristic Framework” (joint work with Ender Özcan and Edmund Burke), in *Proceedings of the 4th Multidisciplinary International Scheduling Conference: Theory & Applications*, Dublin, Ireland, Aug. 2009.

37. “A Study of Simulated Annealing Hyperheuristics” (joint work with Edmund Burke, Graham Kendall and Ender Özcan), in *Proceedings of the 7th International Conference on the Practice and Theory of Automated Timetabling*, Montreal, Canada, Aug. 2008.
38. “Learning Heuristic Selection in Hyper-heuristics for Examination Timetabling” (joint work with Edmund Burke, Gabriela Ochoa and Ender Özcan), in *Proceedings of the 7th International Conference on the Practice and Theory of Automated Timetabling*, Montreal, Canada, Aug. 2008.

NATIONAL CONFERENCE / WORKSHOP PAPERS

39. “Design Principles and Performance Analysis of a Selection Hyper-heuristic across Multiple Problem Domains” (joint work with Katja Verbeeck, Patrick De Causmaecker and Greet Vanden Berghe), in *Proceedings of the 26th Belgian Conference on Operations Research*, Brussels, Belgium, Feb. 2012.
40. “An Adaptive Selection Hyper-heuristic for CHeSC 2011” (joint work with Patrick De Causmaecker, Greet Vanden Berghe and Katja Verbeeck), in *Proceedings of the OR53 Annual Conference*, Nottingham, UK, Sep. 2011.
41. “Design of a Generic Selection Hyper-heuristic” (joint work with Katja Verbeeck, Greet Vanden Berghe and Patrick De Causmaecker), in *Proceedings of the 25th Belgian Conference on Operations Research*, Gent, Belgium, Feb. 2011.
42. “An Introduction to New Application Domains for the Home Care Scheduling Problem” (joint work with Pieter Smet and Greet Vanden Berghe), in *Proceedings of the 25th Belgian Conference on Operations Research*, Gent, Belgium, Feb. 2011.
43. “A Hyper-heuristic Approach for the Ready-Mixed Concrete Delivery Problem” (joint work with Wim Vancroonenburg and Greet Vanden Berghe), in *Proceedings of the 25th Belgian Conference on Operations Research*, Gent, Belgium, Feb. 2011.
44. “Hyper-heuristics Learning a Varying Set of Low-level Heuristics” (joint work with Katja Verbeeck, Greet Vanden Berghe and Patrick De Causmaecker), in *Proceedings of the 24th Belgian Conference on Operations Research*, Liege, Belgium, Jan. 2010.
45. “Hyper-heuristics: Raising the Level of Generality” (joint work with Patrick De Causmaecker, Katja Verbeeck and Greet Vanden Berghe), in *Proceedings of the 23rd Belgian Conference on Operations Research*, Leuven, Belgium, Feb. 2009.

TECHNICAL REPORTS

46. “Algorithm Selection as a Collaborative Filtering Problem” (joint work with Michele Sebag), INRIA, Tech. Report, 2013.
47. “A New Hyper-heuristic Approach to the Ready-Mixed Concrete Delivery Problem” (joint work with Wim Vancroonenburg, Katja Verbeeck and Greet Vanden Berghe), KAHO Sint-Lieven, Tech. Report, 2011.
48. “A Hyper-heuristic Approach to the Home Care Scheduling Problem” (joint work with Katja Verbeeck, Greet Vanden Berghe and Patrick De Causmaecker), KAHO Sint-Lieven, Tech. Report, 2009.

OTHER PUBLICATIONS

49. “Intelligent Hyperheuristics: A Tool for Solving Generic Optimisation Problems”, Ph.D. Dissertation, Department of Computer Science, KU Leuven, 2012, **ERCIM Cor Baayen Award 2013 Finalist**.
50. “Group Decision Making for Move Acceptance in Hyperheuristics”, M.Sc. Thesis, Department of Computer Engineering, Yeditepe University, 2008.
51. “A New Hyperheuristic, IDWalk based Hyperheuristic Strategy”, B.Sc. Graduation Project Report, Department of Computer Engineering, Yeditepe University, 2007.

CITATION REPORT

Google scholar: # citations = 402, h-Index = 11

RESEARCH FUND

2016 Nanjing University of Aeronautics and Astronautics Research Fund (80K RMB ~12K USD)

INDUSTRIAL RESEARCH PROJECTS

- 2013 - 2015 Dynamic Learning and Optimization of User Experience in Travel and Tourism
Funded by National Research Foundation (NRF) of Singapore @ Singapore Management U.
- 2009 - 2011 IWT 090549 - Workforce Routing and Rostering
Funded by Agency for Innovation by Science and Technology (IWT) of Belgium @ KU Leuven

PROJECT / STUDENT SUPERVISION

- Aug. 2015–Dec. 2015 Algorithm Portfolio Generation via Configuration @ Singapore Management U.
- Mar. 2015–Aug. 2015 Parameter Configuration for Hyper-heuristics @ U. Freiburg
- May 2014–July 2014 Online Crossover Selection in Memetic Algorithms @ Singapore Management U.

CONFERENCE / WORKSHOP COMMITTEES

1. Program committee, 25th International Joint Conference on Artificial Intelligence (IJCAI), New York, USA, Jul. 2016
2. Program committee, 18th Annual Conference on Genetic and Evolutionary Computation (GECCO), Search-Based Software Engineering and Self-* Search, Denver/Colorado, USA, Jul. 2016
3. Program committee, 17th Annual Conference on Genetic and Evolutionary Computation (GECCO), Search-Based Software Engineering and Self-* Search, Madrid, Spain, Jul. 2015
4. Program committee, 16th Annual Conference on Genetic and Evolutionary Computation (GECCO), Self-* Search, Vancouver/British Columbia, Canada, Jul. 2014
5. Program committee, 15th Annual Conference on Genetic and Evolutionary Computation (GECCO), Self-* Search, Amsterdam, Netherlands, Jul. 2013
6. Program committee, 14th Annual Conference on Genetic and Evolutionary Computation (GECCO), Self-* Search, Philadelphia/Pennsylvania, USA, Jul. 2012

REVIEWER

Journals: IEEE Transactions on Evolutionary Computation, Evolutionary Computation (MIT), INFORMS Journal on Computing, European Journal of Operational Research (Elsevier), Expert Systems with Applications (Elsevier), Information Sciences (Elsevier), Journal of Heuristics (Springer), Memetic Computing (Springer), Evolving Systems (Springer), Journal of Scheduling (Springer), Annals of Operations Research (Springer), Journal of the Operational Research Society (Palgrave Macmillan), Communications in Nonlinear Science and Numerical Simulation (Elsevier), Automation in Construction (Elsevier), International Journal of Metaheuristics (InderScience), International Journal of Innovative Computing and Applications (InderScience), International Journal of Bio-Inspired Computation (InderScience), Turkish Journal of Electrical Engineering & Computer Sciences (TUBITAK), Journal of Information Technology Research (IGI Global), Computer Communication & Collaboration (BAP), Journal of Applied Operational Research (Tadbir)

Conferences: 25th International Joint Conference on Artificial Intelligence (2016), 18th Annual Conference on Genetic and Evolutionary Computation (2016), 10th Learning and Intelligent Optimization Conference (2016), 15th IEEE Congress on Evolutionary Computation (2016), 17th Annual Conference on Genetic and Evolutionary Computation (2015), 28th Canadian Artificial Intelligence Conference (2015), 16th Annual Conference on Genetic and Evolutionary Computation (2014), 8th Learning and Intelligent Optimization Conference (2014), 6th Multidisciplinary International Scheduling Conference: Theory & Applications (2013), 15th Annual Conference on Genetic and Evolutionary Computation (2013), 14th Annual Conference on Genetic and Evolutionary Computation (2012)

INVITED/~ TALKS¹

- June 2016 “Automated Algorithm Design: Towards an Ultimate Algorithm Designer”, CODES, Department of Computer Science, KU Leuven, Belgium
- Sept. 2015 “Automated Algorithm Design: Offline and Online Techniques”, College of Computer Science and Technology, Nanjing University of Aeronautics and Astronautics, China
- Aug. 2015 “Intelligent Hyper-heuristics: A Tool for Solving Generic Optimisation Problems”, United Technologies Research Center, Ireland
- May 2015 “Automated Algorithm Design: Offline and Online Techniques”, Department of Computer Engineering, Abdullah Gül University, Turkey
- Apr. 2015 “Automated Algorithm Design: Offline and Online Techniques”, Department of Electrical and Electronics Engineering, Istanbul Medipol University, Turkey
- Nov. 2014 “Intelligent Hyper-heuristics: A Tool for Solving Generic Optimisation Problems”, Department of Computer Science, KU Leuven, Belgium
- Oct. 2014 “Algorithm Selection as a Collaborative Filtering Problem”, ML4AAD, Department of Computer Science, University of Freiburg, Germany
- Jan. 2014 “Automated Algorithm Design: Offline and Online Techniques”, College of Engineering, Antalya International University, Turkey
- Jan. 2014 “Automated Algorithm Design: Offline and Online Techniques”, Department of Computer Engineering, Meliksah University, Turkey
- Jan. 2014 “Algorithm Selection as a Collaborative Filtering Problem”, LARC, School of Information Systems, Singapore Management University, Singapore
- Oct. 2013 “Algorithm Selection as a Collaborative Filtering Problem”, DDIS, Department of Informatics, University of Zurich, Switzerland
- Aug. 2013 “High-level Search: From Hyper-heuristics to Algorithm Selection”, LARC, School of Information Systems, Singapore Management University, Singapore
- June 2013 “Algorithm Selection as a Collaborative Filtering Problem”, LARCA, Department of Software, Universitat Politècnica de Catalunya, Spain
- June 2013 “Algorithm Selection as a Collaborative Filtering Problem”, INRIA, LRI, Université Paris-Sud XI, France
- May 2013 “Algorithm Selection as a Collaborative Filtering Problem”, CODES, Department of Computer Science, KU Leuven, Belgium
- Nov. 2012 “High-level Search: From Hyper-heuristics to Algorithm Selection”, INRIA, LRI, Université Paris-Sud XI, France
- June 2012 “Intelligent Hyper-heuristics: A Tool for Solving Generic Optimisation Problems”, Department of Computer Science, University College London, UK
- May 2012 “Intelligent Hyper-heuristics: A Tool for Solving Generic Optimisation Problems”, Department of Computing Science and Mathematics, University of Stirling, UK
- Mar. 2012 “Intelligent Hyper-heuristics: A Tool for Solving Generic Optimisation Problems”, Department of Computer Science, KU Leuven, Belgium
- Jan. 2012 “An Adaptive Selection Hyper-heuristic for CHeSC 2011”, School of Computer Science, University of Nottingham, UK
- Oct. 2011 “An Adaptive Selection Hyper-heuristic for CHeSC 2011”, Department of Computer Science, KU Leuven, Belgium
- Jan. 2011 “Intelligent Hyper-heuristics for Generality”, KAHO Dag, KAHO Sint-Lieven, Belgium
- Dec. 2009 “Free Lunches for Hyper-heuristics”, Department of Computer Science, KU Leuven, Belgium
- Sept. 2009 “Fitness Landscape Analysis in Hyper-heuristics”, Department of Computer Science, KU Leuven, Belgium
- Jan. 2009 “Hyper-heuristics”, Interdisciplinary Research on Technology, Education & Communication (iTec) Seminar Series – KU Leuven, Belgium
- Mar. 2008 “Group Decision Making in Hyper-heuristics”, Department of Computer Engineering, Yeditepe University, Istanbul, Turkey

¹excluding conference/workshop paper talks

INTERESTS

- Major Research Interests: *Automated Algorithm Design, Operations Research and Data Science/Analytics with the help of Artificial Intelligence, Machine Learning, Reinforcement Learning, Evolutionary Algorithms, Computational Intelligence, Hyper-heuristics, Meta-heuristics, Algorithm Portfolios, Adaptive/Reactive/Autonomous Search, Meta-learning, Empirical Algorithmics, Design of Experiments, Recommender Systems (Collaborative Filtering), Boolean Satisfiability, Constraint Programming, Combinatorial Optimisation, Data Mining (Knowledge Discovery), Expert Systems, Decision Support Systems and Automated Planning/Scheduling*
- Future Research Interests: *Bioinformatics, (Search based) Software Engineering, Autonomous / Evolutionary Robotics, Cyber Security, GPU Computing, Evolvable Hardware, Computational Sustainability, Supply Chain Management, Cognitive Science and Theoretical Computer Science*
- Others: *Psychology, History, Architecture, Ornithology, Computer Games (mostly FPS, Racing) and Photography*²

AWARDS & HONOURS

Best Paper Runner-up, 9th Learning and Intelligent Optimization Conference, 2015
Finalist, ERCIM Cor Baayen Award (for Young Researchers in CS and Applied Math), 2013
Postdoctoral Fellowship, ERCIM Alain Bensoussan Fellowship Programme, 2012–2013
Winner, Cross Domain Heuristic Search Challenge (CHeSC)³, 2011
Finalist Team Member, International Nurse Rostering Competition (INRC)⁴, 2010
Ph.D Research Fellowship, Department of Computer Science, KU Leuven, 2009–2012
Turkish National Ministry of Education Scholarship for PhD in Japan & USA, 2008 (declined)
M.Sc. Graduate Assistantship, Department of Computer Engineering, Yeditepe University, 2007–2008
B.Sc. Student Assistantship, Department of Computer Engineering, Yeditepe University, 2006–2007
B.Sc. Fellowship, Department of Computer Engineering, Yeditepe University, 2002–2007
High Honour, M.Sc. Degree in Computer Engineering, Yeditepe University, 2008
Honour, B.Sc. Degree in Computer Engineering, Yeditepe University, 2007
Full Education Scholarship, Med Educational Institute, 2001–2002
Full Education Scholarship, Kadro Educational Institute, 2001–2002 (declined)
Full Education Scholarship, Odak Educational Institute, 2000–2002

COMPUTER SKILLS

Programming: *C/C++, Java, Python, Prolog, Assembly, Matlab, Bash Shell*
Computer Graphics: *VRML*
Web Technologies: *XHTML (CSS), JScript, JSP, PHP*
Database Systems: *Oracle, {Ms/My/Postgre}SQL*
Operating Systems: *Linux, Windows*

MEMBERSHIPS

Member, Configuration and SElection of ALgorithms (COSEAL) Group
Member, Task Force on Hyper-heuristics, IEEE Computational Intelligence Society
Member, Society for Industrial and Applied Mathematics (SIAM)
Member, Institute of Mathematical Statistics (IMS)
Member, the European Chapter on Metaheuristics (EU/ME)
Member, the EURO Working Group on Combinatorial Optimization (ECCO)
Member, the EURO Working Group on Operational Research Applied to Health Services (ORAHS)

²<http://www.flickr.com/photos/51549378@N04/>

³<http://www.asap.cs.nott.ac.uk/external/chesc2011/>

⁴<http://www.kuleuven-kulak.be/nrpcompetition>

Member, the EURO Working Group on Automated Timetabling (WATT)
Member, Turkish Foundation for Combating Soil Erosion (TEMA)
Former Member, the Belgian Operations Research Society (ORBEL)
Former Member, the OR Society, UK (OR)
Former (Founder) Member, Environmental Club, Yeditepe University
Former Member, Engineering Club, Yeditepe University
Former Member, Computer Society, Yeditepe University

PERSONAL

Born in November, 1985, Turkey
Speaks Turkish (*Native*), English (*Advanced*) and Dutch (*Beginner*)