

Evolutionary Multiobjective Optimization-1: Methods

Chair: Sushil Louis

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| La Salle | ■16:00 | An Empirical Study on the Handling of Overlapping Solutions in Evolutionary Multiobjective Optimization <i>Hisao Ishibuchi, Kaname Narukawa, Yusuke Nojima</i> |
| | ■16:30 | Exploiting Gradient Information in Numerical Multi-Objective Evolutionary Optimization <i>Peter A.N. Bosman, Edwin D. de Jong</i> |
| | ■17:00 | Fitness Inheritance For Noisy Evolutionary Multi-Objective Optimization <i>Lam Thu Bui, Hussein A. Abbass, Daryl Essam</i> |
| | ■17:30 | Comparison of Evolutionary Multiobjective Optimization with Reference Solution-Based Single-Objective Approach <i>Hisao Ishibuchi, Kaname Narukawa</i> |

GA-4: Theory

Chair: Annie Wu

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| Monet I- II | ■16:00 | Some Theoretical Results About the Computation Time of Evolutionary Algorithms <i>Lixin Ding, Jinghu Yu</i> |
| | ■16:30 | EA Models and Population Fixed-Points Versus Mutation Rates for Functions of Unitation <i>J Neal Richter, John Paxton, Alden Wright</i> |
| | ■17:00 | Phase Transition in a Random NK Landscape Model <i>Sung-Soon Choi, Kyomin Jung, Jeong Han Kim</i> |
| | ■17:30 | Behavior of Finite Population Variable Length Genetic Algorithms Under Random Selection <i>Hal Stringer, Annie S Wu</i> |

RWA-3: Engineering Design

Chair: *to be determined*

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| Monet III-IV | ■16:00 | Improving EA-based Design Space Exploration by Utilizing Symbolic Feasibility Tests <i>Thomas Schlichter, Christian Haubelt, Jürgen Teich</i> |
| | ■16:30 | Parameterized versus Generative Representations in Structural Design: An Empirical Comparison <i>Rafal Kicinger, Tomasz Arciszewski, Kenneth De Jong</i> |
| | ■17:00 | MRI Magnet Design: Search Space Analysis, EDAs and a Real-World Problem with Significant Dependencies <i>Bo Yuan, Marcus Gallagher, Stuart Crozier</i> |
| | ■17:30 | An Efficient Evolutionary Algorithm Applied to the Design of Two-dimensional IIR Filters <i>S. Das, A. Konar, U. K. Chakraborty</i> |

GP-3: Applications

Chair: Emily M. Zechman

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| Renoir | ■16:00 | Parsing and Translation of Expressions by Genetic Programming <i>David Jackson</i> |
| | ■16:30 | Evolution of a Human-Competitive Quantum Fourier Transform Algorithm Using Genetic Programming <i>Paul Massey, John A Clark, Susan Stepney</i> |
| | ■17:00 | Evolving Fuzzy Decision Tree Structure that Adapts in Real-Time <i>James F. Smith</i> |
| | ■17:30 | CGP Visits the Santa Fe Trail: Effects of Heuristics on GP <i>Cezary Z Janikow, Christopher J Mann</i> |

GA-5: Fitness

Chair: Xavier Llorà

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| Grand Ballroom | ■16:00 | Designing Resilient Networks Using a Hybrid Genetic Algorithm Approach <i>Abdullah Konak, Alice A.E. Smith</i> |
| | ■16:30 | Towards an Analysis of Dynamic Environments <i>Jurgen Branke, Erdem Salihoglu, Sima Uyar</i> |
| | ■17:00 | Preservation of Genetic Redundancy in The Existence of Developmental Error and Fitness Assignment Error <i>Ayşe Selen Yilmaz, Annie S Wu</i> |
| | ■17:30 | Combating User Fatigue in iGAs: Partial Ordering, Support Vector Machines, and Synthetic Fitness <i>Xavier F Llorà, Kumara Sastry, David E Goldberg, Abhimanyu Gupta, Lalitha Lakshmi</i> |