



1st International Symposium on Search Based Software Engineering

Program Schedule – Wednesday, May 13

| | |
|---------------|---|
| 12:30 | Lunch |
| 14:00 – 14:30 | Welcome and Introduction |
| 14:30 – 16:00 | Keynote Model-driven Development and Search-based Software Engineering: An Opportunity for Research Synergy <i>Lionel C. Briand, Simula Research Lab and University of Oslo, Norway</i> |
| 16:00 | Refreshments |
| 16:30 – 18:00 | Session 1 – Testing and Defect Prediction Chair: <i>Rob Hierons, Brunel University, UK</i> Search-Based Testing of Ajax Web Applications <i>Alessandro Marchetto and Paolo Tonella</i> An Improved Meta-Heuristic Search for Constrained Interaction Testing <i>Brady J. Garvin, Myra B. Cohen and Matthew B. Dwyer</i> Evolution and Search Based Metrics to Improve Defects Prediction <i>Segla Kpodjedo, Filippo Ricca, Giuliano Antoniol and Philippe Galinier</i> |
| 19:00 | Dinner |
| | Drinks in the bar, sponsored by Berner and Mattner, Germany |



1st International Symposium on Search Based Software Engineering

Program Schedule – Thursday, May 14

| | |
|---------------|--|
| 08:15 | Breakfast |
| 09:00 – 10:30 | Keynote Not Your Grandmother's Genetic Algorithm <i>David E. Goldberg, University of Illinois at Urbana-Champaign, USA</i> |
| 10:30 | Refreshments |
| 11:00 – 12:30 | Session 2 – PhD Student Track Chair: <i>Myra B. Cohen, University of Nebraska – Lincoln, USA</i> Search-Based Prediction of Fault Count Data <i>Wasif Afzal, Richard Torkar and Robert Feldt</i> On Search Based Software Evolution <i>Andrea Arcuri</i> Local Search-Based Refactoring as Graph Transformation <i>Fawad Qayum and Reiko Heckel</i> |
| 12:30 | Lunch |
| 14:00 – 15:30 | Session 3 – Software Evolution Chair: <i>Filippo Ricca, University of Genoa, Italy</i> A Study of the Multi-Objective Next Release Problem <i>J. J. Durillo, Y. Zhang, E. Alba and A. J. Nebro</i> Dynamic Architectural Selection: A Genetic Algorithm Based Approach <i>Dongsun Kim and Sooyong Park</i> On the Use of Discretized Source Code Metrics for Author Identification <i>Maxim Shevertalov, Jay Kothari, Edward Stehle and Spiros Mancoridis</i> |
| 15:30 | Refreshments |
| 16:00 – 18:00 | Software Engineering Experts' Panel – The Status and Future of SBSE in the Software Engineering Community <i>Norman Fenton, Queen Mary, University of London, UK</i> <i>Anthony Finkelstein, University College London, UK</i> <i>Paola Inverardi, Università dell'Aquila, Italy</i> <i>Mary Lou Soffa, University of Virginia, USA</i> <i>Ian Sommerville, University of St Andrews, UK</i> |
| 19:00 | Dinner |
| | Drinks in the bar, sponsored by Sogeti, UK |



1st International Symposium on Search Based Software Engineering

Program Schedule – Friday, May 15

| | |
|---------------|--|
| 08:00 | Breakfast |
| 08:45 – 10:15 | <p>Keynote</p> <p>How Can Metaheuristics Help Software Engineers <i>Enrique Alba, Universidad de Málaga, Spain</i></p> |
| 10:15 | Refreshments |
| 10:45 – 12:15 | <p>Session 4 – Short Papers Chair: <i>Iain Bate, University of York, UK</i></p> <p>Search-Based Testing with in-the-loop Systems <i>Joachim Wegener and Peter M. Kruse</i></p> <p>A Testability Transformation Approach for State-Based Programs <i>AbdulSalam Kalaji, Robert M. Hierons and Stephen Swift</i></p> <p>Searching for Rules to find Defective Modules in Unbalanced Datasets <i>D. Rodríguez, J.C. Riquelme, R. Ruiz, and J.S. Aguilar-Ruiz</i></p> <p>Formal model simulation: can it be guided? <i>Thang H. Bui and Albert Nymeyer</i></p> <p>How can optimization models support the maintenance of component-based software? <i>Vittorio Cortellessa and Pasqualina Potena</i></p> |
| 12:15 | Lunch |
| 13:00 – 14:30 | <p>Session 5 – Testing Chair: <i>Phil McMinn, University of Sheffield, UK</i></p> <p>WCET Analysis of Modern Processors Using Multi-Criteria Optimisation <i>Usman Khan and Iain Bate</i></p> <p>Full Theoretical Runtime Analysis of Alternating Variable Method on the Triangle Classification Problem <i>Andrea Arcuri</i></p> <p>Widening the Goal Posts: Program Stretching to Aid Search Based Software Testing <i>Kamran Ghani and John A. Clark</i></p> |
| 14:30 | Refreshments |
| 15:00 – 16:00 | <p>Session 6 – Fast Abstracts Chair: <i>Mark Harman, King's College London, UK</i></p> |
| 16:00 – 16:15 | Concluding Remarks |