## SSBSE 2018 Program

**Saturday, September 8th**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>8:00 – 8:45</td>
<td>Registration</td>
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<tr>
<td>8:45 – 9:00</td>
<td>Welcome to SSBSE 2018 from the conference organisers</td>
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| 9:00 – 10:15 | **Keynote 1:** Mark Harman. Deploying Search Based Software Engineering with Sapierz at Facebook.  
Chair: Phil McMinn |
| 10:15 – 10:55 | **Paper Session 1:** Stress Testing – Chair: Annibale Panichella  
| 10:55 – 11:15 | Coffee Break                                                          |
Chair: Gregory Gay |
| 12:15 – 13:15 | **Paper Session 2:** Model Transformation – Chair: Gregory Gay  
Edouard Batot and Houari Sahraoui. *Injecting Social Diversity in Multi-Objective Genetic Programming: the Case of Model Well-formedness Rule Learning.* (R)  
Bogdan Korel, Nada Almasr and Luay Tahat. *Towards Minimizing the Impact of Changes using Search-Based Approach.* (R)  
| 13:15 – 14:15 | Lunch                                                                 |
Chair: Gordon Fraser |
| 15:15 – 16:15 | **Paper Session 3:** Online Experiments and Non-Functional Requirements – Chair: Shin Yoo  
David Issa Mattos, Erling Mårtensson, Jan Bosch and Helena Holmström Olsson. *Optimization Experiments in the Continuous Space: The Limited Growth Optimistic Optimization Algorithm.* (R)  
Irene Manotas, James Clause and Lori Pollock. Exploring Evolutionary Search Strategies to Improve Applications’ Energy Efficiency. (R) |
| 16:15 – 16:40 | Coffee Break                                                          |
Chair: Phil McMinn |
| 17:00 | SSBSE 2019 announcement, followed by Steering Committee election       |
| 18:30 | City Tour + SSBSE Dinner (Best Paper and Best Reviewer Announcements)   |
## Sunday, September 9th

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| 10:15 – 11:05 | **Session Paper 4:** Reliability, Security and Software Maintenance – Chair: Erik Fredericks  
Thomas Jones and David Ackley. *Damage Reduction via White-Box Failure Shaping.* (R)  
William B. Langdon and Justyna Petke. *Evolving Better Software Parameters.* (H) |
| 11:05 – 11:30 | Coffee Break |
| 11:30 – 12:30 | **Tutorial 3:** Matias Martinez. Astor: An automated software repair framework. Chair: Lars Grunske |
| 12:30 – 14:00 | Lunch  
(Steering Committee Meeting to take place on a reserved table) |
| 14:00 – 15:15 | **Keynote 3 -** Guillaume Beslon. Can in silico experimental evolution close the link between evolutionary biology and evolutionary engineering? Chair: Benoit Baudry |
| 15:15 – 16:05 | **Paper Session 5:** Fault Localisation – Chair: José Miguel Rojas  
Kabdo Choi, Jeongju Sohn and Shin Yoo. *Learning Fault Localisation for Both Humans and Machines using Multi-Objective GP.* (H)  
Gregory Gay. *Detecting Real Faults in the Gson Library Through Search-Based Unit Test Generation.* (C) |
| 16:05 – 16:25 | Coffee Break |
| 16:25 – 17:20 | **Paper Session 6:** Test Data Generation – Chair: Shaukat Ali  
Annibale Panichella, Fitsum Meshesha Kifetew and Paolo Tonella. *Incremental Control Dependency Frontier Exploration for Many-Criteria Test Case Generation.* (R)  
Allen Kanapala and Gregory Gay. *Mapping Class Dependencies for Fun and Profit.* (H) |
| 17:20 | **Close** |

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**Key for session chairs:**

- **Research Papers (R)** = 15 minutes presentation + 5 minutes for questions
- **Hot off the Press Track Papers (H)** = 10 minutes presentation + 5 minutes for questions
- **Challenge Track Papers (C)** = 10 minutes presentation + 5 minutes for questions