The Track Chairs, Editor in Chief, and the Conference Chair nominated the papers that received the most nominations from Program Committee members and/or the highest evaluation scores for consideration by the conference. Best Paper winners were determined by ballot vote by attendees.

**Ant Colony Optimization and Swarm Intelligence:**

An Ant-Based Algorithm for Finding Degree-Constrained Minimum Spanning Tree

Thang N. Bui, Catherine M. Zrncic

**Artificial Immune Systems**

Applicability Issues of the Real-Valued Negative Selection Algorithms

Zhou Ji, Dipankar Dasgupta

**Artificial Life, Evolutionary Robotics, Adaptive Behavior**

A Method for Parameter Calibration and Relevance Estimation in Evolutionary Algorithms

Volker Nannen, A.E. Eiben

**Combination of Tracks**

Probabilistic Modeling for Continuous EDA with Boltzmann Selection and Kullback-Leibler Divergence (Estimation of Distribution Algorithms Track)

Yunpeng Cai, Xiaomin Sun, Peifa Jia

**Biological Applications**

Genetic Programming for Human Oral Bioavailability of Drugs

Francesco Archetti, Stefano Lanzeni, Enza Messina, Leonardo Vanneschi

**Coevolution**

The Effects of Interaction Frequency on the Optimization Performance of Cooperative Coevolution

Elena Popovici, Kenneth De Jong

**Evolution Strategies, Evolutionary Programming**

On the Local Performance of Simulated Annealing and the (1+1) Evolutionary Algorithm

Thomas Jansen, Ingo Wegener

**Evolutionary Combinatorial Optimization**

A New Hybrid Evolutionary Algorithm for the k-cardinality Tree Problem

Christian Blum

**Evolutionary Multiobjective Optimization**

On The Effect of Populations in Evolutionary Multiobjective Optimization

Oliver Giel, Per Kristian Lehre

**Genetic Algorithms**

Comparing Evolutionary and Temporal Difference Methods in a Reinforcement Learning Domain

Matthew E. Taylor, Shimon Whiteson, Peter Stone

**Genetic Programming**

Alternative Evolutionary Algorithms for Evolving Programs

Darrell Whitley, Ross Beveridge, Marc Richards, Andre Barreto

**Learning Classifier Systems and other Genetics-Based Machine Learning**

Classifier Prediction based on Tile Coding

Pier Luca Lanzi, Daniele Loiacono, Stewart W Wilson, David E Goldberg

**Real-World Applications**

Multobjective Genetic Algorithms for Multiscaling Excited State Direct Dynamics in Photochemistry

Kumara Sastry, D. D. Johnson, Alexis L. Thompson, David E. Goldberg, Todd J. Martinez, Jeff Leiding, Jane Owens

**Search-Based Software Engineering**

Search-based Determination of Refactorings for Improving the Class Structure of Object-Oriented Systems

Olaf Seng, Johannes Stammel, David Burkhart