GECCO 2009 Best Paper Award **WINNERS**

Ant Colony Optimization, Swarm Intelligence, and Artificial Immune Systems

Evolutionary Swarm Design of Architectural Idea Models;
Sebastian von Mammen (University of Calgary)
Christian Jacob (University of Calgary)

Artificial Life, Evolutionary Robotics, Adaptive Behavior, Evolvable Hardware

Modular Neurorevolution for Multilegged Locomotion;
Viĩnod K.Valsalam (The University of Texas at Austin)
Risto Miikkulainen (The University of Texas at Austin)

Bioinformatics and Computational Biology

Structure and Parameter Estimation for Cell Systems Biology Models;
Francisco J. Romero-Campero (University of Nottingham)
Hongquing Cao (University of Nottingham)
Miguel Camara (University of Nottingham),
Natalio Krasnogor (University of Nottingham)

Coevolution

An Empirical Comparison of Evolution and Coevolution for Designing Artificial Neural Network Game Players.;
Min Shi (Norwegian University of Science and Technology)

Estimation of Distribution Algorithms

From Mating Pool Distributions to Model Overfitting ;
Claudio F Lima (University of Algarve)
Fernando G. Lobo (University of Algarve)
Martin Pelikan (University of Missouri at St Louis)

Evolution Strategies, Evolutionary Programming

Aiming for a Theoretically tractable CSA variant by Means of Empirical Investigations;
Jens Jägersküpper (TU Dortmund)
Mike Preuss (TU Dortmund)

Evolutionary Combinatorial Optimization

Crossover Can Provably be Useful in Evolutionary Computation;
Benjamin Doerr (Max Planck Institut für Informatik)
Edda Happ (Max Planck Institut für Informatik)
Christian Klein (Max Planck Institut für Informatik)

Evolutionary Multiobjective Optimization

A New Memetic Strategy for the Numerical Treatment of Multi-Objective Optimization Problems;
Oliver Schuetze (CINVESTAV-IPN)
Gustavo Sanchez (Simon Bolivar University)
Carlos Coello Coello (CINVESTAV-IPN)

Formal Theory

Precision, Local Search and Unimodal Functions;
Martin Dietzfelbinger (Tecnische Universität Ilmenau)
Jonathan E. Rowe (University of Birmingham)
Ingo Wegener (Technische Universität Dortmund)
Phillip Woelfel (University of Calgary)

Generative and Developmental Systems

Generative Encoding for Multiagent Systems;
David B. D'Ambrosio (University of Central Florida)
Kenneth O. Stanley (University of Central Florida).

Genetic Algorithms

Theoretical Analysis of Diversity Mechanisms for Global Exploration;

Tobias Friedrich (Max Planck Institut für Informatik)
Pietro S. Oliveto (University of Birmingham)
Dirk Sudholt (TU Dortmund)
Carsten Witt (TU Dortmund)

Genetic Programming

Parsimony Pressure Made Easy;
Riccardo Poli (University of Essex)
Nicholas Freitag McPhee (University of Minnesota, Morris)

Genetics-Based Machine Learning ad Learning Classifier Systems

Context-Dependent Predictions and Cognitive Arm Control with XCSF;
Martin V. Butz (University of Würzburg)
Oliver Herbort (University of Würzburg)

Real World Applications

Genetic Algorithms for Mentor-Assisted Evaluation Function Optimization;
Omid David_Tabibi (Bar-Ilan University)
Moshe Koppel (Bar-Ilan University)
Nathan S. Netanyahu (Bar-Ilan University)

Search-Based Software Engineering

Searching for Liveness Property Violations in Concurrent Systems with ACO;
Francisco Chicano (University of Málaga)
Enrique Alba (University of Málaga)