



## Evo\* 2010

including EuroGP, EvoCOP,  
EvoBIO and EvoApplications  
7-9 April, 2010

Istanbul Technical University,  
Istanbul, Turkey  
<http://www.evostar.org>



The **EuroGP**, **EvoCOP**, **EvoBIO** and **EvoApplications** conferences comprise EVO\*: Europe's premier co-located events in the field of evolutionary computing. Featuring the latest advances in theoretical and applied research, EVO\* seeks high quality research papers on topics including: recent genetic programming challenges, evolutionary and other meta-heuristic approaches for combinatorial optimisation, evolutionary computation, machine learning and data mining techniques in biosciences, use of evolutionary algorithms in numerical optimisation, in music and art domains, in image analysis and signal processing, in hardware optimisation and in a wide range of applications to scientific, industrial, financial and other real-world problems.

**EuroGP**: 13th European Conference on Genetic Programming: papers are sought on topics strongly related to the evolution of computer programs, ranging from theoretical work to innovative applications.

**EvoCOP**: 10th European Conference on Evolutionary Computation in Combinatorial Optimisation: practical and theoretical contributions are invited, related to evolutionary computation techniques and other meta-heuristics for solving combinatorial optimisation problems.

**EvoBIO**: 8th European Conference on Evolutionary Computation, Machine Learning and Data Mining in Bioinformatics: the emphasis is on evolutionary computation and other advanced techniques addressing important problems in molecular biology, proteomics, genomics and genetics that have been implemented and tested in simulations and on real-life datasets.

**EvoApplications**: The eleven events which make up this conference are focused on the use of Evolutionary Computation in different application areas:

- **EvoCOMNET**: Nature-inspired techniques for telecommunication networks and other parallel and distributed systems
- **EvoCOMPLEX (new)**: Evolutionary algorithms and complex systems
- **EvoENVIRONMENT**: Nature-inspired methods for environmental issues
- **EvoFIN**: Evolutionary and natural computation in finance and economics
- **EvoGAMES**: Bio-inspired algorithms in games
- **EvoIASP**: Evolutionary computation in image analysis and signal processing
- **EvoINTELLIGENCE (new)**: Nature-inspired methods for intelligent systems
- **EvoMUSART**: Evolutionary and biologically inspired music, sound, art and design
- **EvoNUM**: Bio-inspired algorithms for continuous parameter optimisation
- **EvoSTOC**: Evolutionary algorithms in stochastic and dynamic environments
- **EvoTRANSLOG**: Evolutionary computation in transportation and logistics

**EvoPHD**: 5th Graduate Student Workshop on Evolutionary Computation.

In 2010, the event will take place at the Istanbul Technical University (ITU). With a history stretching back 236 years, providing technical education within a modern educational environment and strong academic staff, ITU is strongly identified with architectural and engineering education in Turkey.

\*\*\* **Submission deadline: 4 November 2009** \*\*\*

Evo\* 2010 proceedings will be published by Springer Verlag in the Lecture Notes in Computer Science series. The website <http://www.evostar.org> offers information relevant to all events, including calls for papers, deadlines, organising committees, submission requirements and local information.