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## 6th WSEAS International Conference on Evolutionary Computing

EC'05 - Lisbon - Portugal

(part of the 6th World WSEAS Multiconference on  
NEURAL NETWORKS, FUZZY SYSTEMS, EVOLUTIONARY COMPUTING)

**Lisbon, Portugal, June 16-18, 2005**

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In colaboration with  
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INSTITUTO SUPERIOR DE ENGENHARIA DE COIMBRA

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### TOPICS

- Mathematical foundation of Genetic Algorithms and Evolutionary Computing (EC)
- Evolution Strategies
- Evolutionary Programming,
- Probabilistic and Statistical problems in EC
- Simulation
- Co evolution and collective behavior
- Multiobjective evolutionary algorithms
- Evolvable hardware
- Fuzzy Evolutionary Methods
- Neural Networks' training via GA
- Neuro-Fuzzy-Evolutionary Systems
- Ant colonies
- Immune systems
- Molecular computing
- DNA computing
- Particle swarm and differential evolution
- Clustering
- Hybrid and Knowledge Based Networks' study via EC
- Software based of EC concepts
- EC in Neurobiology and neurosciences
- Prediction, Estimation and Statistics via EC
- Simulation with EC
- Time series analysis with EC

- Non-linear Systems' study via EC
- Complex Systems' and Very Large Scale Systems' study via EC
- EC Control (Genetic Control)
- EC in Robotics and Mechatronics
- EC applications in Signal Processing
- EC applications in Pattern Recognition
- EC applications in Communications
- EC applications in Networking
- EC applications in Power Systems
- EC applications in Production Systems
- Biological, Environmental, Space Science, Health Science, Financial Science Applications of EC
- EC applications in Mechanical, Chemical, Civil, Naval, Agricultural Engineering
- Other Topics and Other Applications

**DEADLINES**

**Deadline for paper submission:** April 15, 2005

**Notification of acceptance/rejection:** May 15, 2005