

# EvoIASP2006 PROGRAMME

8th European Workshop on Evolutionary Computation in Image Analysis and Signal Processing

**Monday 10 April** Strasbourg Room

1730-1900 **Conference poster session, including EvoIASP posters:**

***Classifying and Counting Vehicles in Traffic Control Applications***

Francesco Archetti, Enza Messina, Daniele Toscani, Leonardo Vanneschi

***A Neural Evolutionary Classification Method for Brain-Wave Analysis***

Antonia Azzini, Andrea G.B. Tettamanzi

***Differential Evolution applied to a multimodal information theoretic optimization problem***

Patricia Besson, Jean-Marc Vesin, Vlad Popovici, Murat Kunt

***Artificial Life Models in Lung CTs***

Sorin Cristian Cheran, Gianfranco Gargano

***Learning High-Level Visual Concepts using Attributed Primitives and Genetic Programming***

Krzysztof Krawiec

***Evolutionary denoising based on an estimation of Hölder exponents with oscillations***

Pierrick Legrand, Evelyne Lutton, Gustavo Olague

***Probability Evolutionary Algorithm Based Human Body Tracking***

Shuhan Shen, Weirong Chen

***Immune Multiobjective Optimization Algorithm for Unsupervised Feature Selection***

Xiangrong Zhang, Bin Lu, Shuiping Gou, Licheng Jiao

***An Adaptive Stochastic Collision Detection between Deformable Objects using Particle Swarm Optimization***

Wang Tianzhu, Li Wenhui, Wang Yi, Ge Zihou, Han Dongfeng

1930-2230 **Conference Reception in conjunction with EvoMusArt exhibition at Artpool Art Research Centre (coaches depart at 1930)**

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**Tuesday 11 April Strasbourg Room**

- 0930-1100 **Medical Imaging:** CHAIR: Stefano Cagnoni  
*Image Space Colonization Algorithm*  
Leonardo Bocchi, Lucia Ballerini  
*Mixed-Integer Evolution Strategies and their Application to Intravascular Ultrasound Image Analysis*  
Rui Li, Michael T. M. Emmerich, Ernst G.P. Bovenkamp, Jeroen Eggermont, Thomas Baeck, Jouke Dijkstra, Johan H.C. Reiber (Nominated for Best Paper Award)
- 1100-1120 **Coffee break**
- 1120-1250 **Genetic Programming:** CHAIR: Leonardo Vanneschi  
*Localisation Fitness in GP for Object Detection*  
Mengjie Zhang, Malcolm Lett (Nominated for Best Paper Award)  
*Enhancement of an Automatic Fingerprint Identification System Using a Genetic Algorithm and Genetic Programming*  
Wannasak Wetcharaporn, Nachol Chaiyaratana, Sanpachai Huvanandana  
*Genetic Programming for Automatic Stress Detection in Spoken English*  
Huayang Xie, Mengjie Zhange, Peter Andreae
- 1250-1415 **Lunch**
- 1415-1545 **Classification:** CHAIR: Mengjie Zhang  
*Evolutionary Generation of Prototypes for a Learning Vector Quantization Classifier*  
Luigi Pietro Cordella, Claudio De Stefano, Francesco Fontanella, Angelo Marcelli (Nominated for Best Paper Award)  
*Automatic Classification of Handsegmented Image Parts with Differential Evolution*  
Ivanoe De Falco, Antonio Della Cioppa, Ernesto Tarantino
- 1545-1600 **Coffee break**
- 1600-1730 **Applications:** CHAIR: Lucia Ballerini  
*The Honeybee Search Algorithm for Three-dimensional Reconstruction*  
Gustavo Olague, Cesar Puente (Nominated for Best Paper Award)  
*Improving the Segmentation Stage of a Pedestrian Tracking Video-based System by means of Evolution Strategies*  
Oscar Perez Concha, Miguel Angel Patricio, Jesús Garcia, José Manuel Molina  
*Evolutionary Singularity Filter Bank Optimization for Fingerprint Image Enhancement*  
Ung-Keun Cho, Jin-Hyuk Hong, Sung-Bae Cho
- 1900 - 2230 **Danube River cruise and Conference Dinner (coaches depart at 1900)**