

Preface

This LNCS volume includes the best papers presented at the 11th Biennial International Conference on Artificial Evolution, EA² 2013, held in Bordeaux (France). Previous EA editions took place in Angers (2011), Strasbourg (2009), Tours (2007), Lille (2005), Marseille (2003), Le Creusot (2001), Dunkerque (1999), Nimes (1997), Brest (1995), and Toulouse (1994).

Authors had been invited to present original work relevant to Artificial Evolution, including, but not limited to: Evolutionary Computation, Evolutionary Optimization, Co-evolution, Artificial Life, Population Dynamics, Theory, Algorithmics and Modeling, Implementations, Application of Evolutionary Paradigms to the Real World (industry, biosciences, ...), other Biologically Inspired Paradigms (Swarm, Artificial Ants, Artificial Immune Systems, Cultural Algorithms...), Memetic Algorithms, Multi-Objective Optimization, Constraint Handling, Parallel Algorithms, Dynamic Optimization, Machine Learning, and hybridization with other soft computing techniques.

Each submitted paper was reviewed by four members of the International Program Committee. Among the 39 submissions received, 20 papers were selected for oral presentation and 2 other papers for poster presentation. For the previous editions, a selection of the best papers which were presented at the conference and further revised were published (see LNCS volumes 1063, 1363, 1829, 2310, 2936, 3871, 4926, 5975, and 7401). Exceptionally, for this edition, the high quality of the 20 papers selected for the oral presentation led us to include a revised version of all these paper in this volume of Springer's LNCS series.

We would like to express our sincere gratitude to our invited speakers: Jean-Louis Deneubourg and William Langdon.

The success of the conference resulted from the input of many people to whom I would like to express my appreciation: The members of Program Committee and the secondary reviewers for their careful reviews that ensure the quality of the selected papers and of the conference. The members of the Organizing Committee for their efficient work and dedication assisted by Laetitia Grimaldi, Nicolas Jahier, Cathy Metivier, and Ingrid Rochel. The members of the Steering Committee for their valuable assistance. Aurélien Dumez for his support on the administration of the website. Mélanie Toto for the design and the visual identity of the conference. Marc Schoenauer for his support with the MyReview system. Laetitia Jourdan, Lola Kovacic, and Marion Bachelet for the publicity. Marc-Michel Corsini for the edition of the proceedings. Sebastien Verel for the registrations. Evelyne Lutton and Nicolas Monmarché for the organization of the Side Event: "Art and Artificial Evolution," and the artists. Laurent Vezard for his support.

² As for previous editions of the conference, the EA acronym is based on the original French name "Évolution Artificielle."

I take this opportunity to thank the different partners whose financial and material support contributed to the organization of the conference: Université Bordeaux 1, Université Bordeaux Segalen, Région Aquitaine, La CUB, CNRS, IMB, Inria, UFR Sciences et Modélisation.

Last but not least, I thank all the authors who submitted their research papers to the conference, and the authors of accepted papers who attended the conference to present their work. Thank you all.



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