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Peter Korošec · Nouredine Melab
El-Ghazali Talbi (Eds.)

Bioinspired Optimization Methods and Their Applications

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Proceedings

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Preface

BIOMA is one of the major scientific events focusing on the progress of the area of bioinspired optimization methods and their applications. As in the seven previous editions, BIOMA 2018 provided an opportunity to the international research community in bioinspired optimization to discuss recent research results and to develop new ideas and collaborations in a friendly and relaxed atmosphere. But this year, BIOMA was organized for the first time outside Slovenia, namely, in Paris, France. This event was part of the SYNERGY project that has received funding from the European Union's Horizon 2020 research and innovation program under grant agreement no. 692286.

BIOMA 2018 welcomed talks that cover various aspects of bioinspired optimization research such as new algorithmic developments, high-impact applications, new research challenges, theoretical contributions, implementation issues, and experimental studies. BIOMA 2018 strived for a high-quality program that was complemented by several invited talks and special sessions.

The call for papers resulted in a total of 69 submissions including 53 long papers and 16 short papers. Each submitted long paper was assigned to three members of the Program Committee for review, with short papers assigned to two reviewers. Based on the review process, 27 long papers were accepted for presentation and inclusion in the LNCS proceedings. In addition, eight short papers were accepted as posters. The long papers made up a strong program which was completed by three keynotes from Prof. Yaochu Jin (University of Surrey, UK), Prof. Swagatam Das (Indian Statistical Institute, Kolkata, India) and Prof. Celso C. Ribeiro (Universidade Federal Fluminense, Brazil). The accepted papers are from 18 countries: Algeria, Brazil, Canada, Chile, Czech Republic, Finland, France, Germany, India, Japan, Mexico, Portugal, Slovenia, Spain, Switzerland, Turkey, Uruguay, and USA.

We would like to thank all the contributors for the success of the BIOMA 2018 conference, in particular the members of the Program Committee for their careful review of the papers and useful feedback to the authors. Our special thanks go to the three keynote speakers, the members of the Organizing Committee, and the publicity chairs.

May 2018

Peter Korošec
Nouredine Melab
El-Ghazali Talbi

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