

# Lecture Notes in Computer Science

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# Evolutionary Multi-Criterion Optimization

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# Preface

The 2nd International Conference on Evolutionary Multi-Criterion Optimization (EMO 2003) was held on April 8–11, 2003, at the University of the Algarve in Faro, Portugal. This was the second international conference dedicated entirely to this important topic, following the very successful EMO 2001 conference, which was held in Zürich, Switzerland, in March 2001. EMO 2003 was co-located with the IFAC International Conference on Intelligent Control Systems and Signal Processing (ICONS 2003), exposing EMO to a wider audience of scientists and engineers.

The EMO 2003 scientific program included two keynote addresses, one given by David Schaffer on optimization and machine learning in industry, and another delivered by Pekka Korhonen on multiple-criteria decision making. In addition, three tutorials were presented, one on multicriterion decision analysis by Valerie Belton, another on multiobjective evolutionary algorithms by Kalyanmoy Deb, and a third on multiple objective metaheuristics by Andrzej Jaszkievicz. The President of the Portuguese Innovation Agency, Prof. João Silveira Lobo, and the President of the Portuguese Foundation for Science and Technology, Prof. Fernando Ramoa Ribeiro, attended the opening ceremony and the closing ceremony, respectively.

In response to the call for papers, 100 full-length papers were submitted from 27 countries. Fifty-six papers were accepted for presentation at the conference after thorough reviewing by members of the program committee and they are contained in this volume.

April 2003

Carlos M. Fonseca, Peter J. Fleming, Eckart Zitzler,  
Kalyanmoy Deb, and Lothar Thiele

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EMO 2003 was organized by CSI (Centre for Intelligent Systems, University of the Algarve, Portugal) with the support of EvoNet (European Network of Excellence in Evolutionary Computing).

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# Acknowledgements

## Invited Speakers

We thank the keynote and tutorial speakers for their talks given at the conference.

### Keynote Speakers

Pekka Korhonen	Helsinki School of Economics and Business Administration, Finland
J. David Schaffer	Philips Research, US

### Tutorial Speakers

Valerie Belton	University of Strathclyde, UK
Kalyanmoy Deb	IIT, Kanpur, India
Andrzej Jaszkievicz	Poznan University of Technology, Poland

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