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Evolutionary and Bio-inspired Computation: Theory and Applications

Misty Blowers
Alex F. Sisti
Editors

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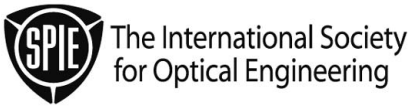

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Introduction

This year marked the birth of a new conference, Evolutionary and Bio-Inspired Computation: Theory and Applications, emerging from a strong presence in our Modeling and Simulation for Military Applications I conference last year. Several interesting presentations were made by some of the brightest luminaries in the computational intelligence and defense communities, covering such topics as Technologies for Tactical Planning, Strategies for Utilizing UAVs, Dealing with Complexity in Real-World Applications, and System Component Design and Optimization. In addition, this year's conference included a spirited panel discussion titled "Choosing the right tool for the job," and an engaging keynote talk by Dr. Leonid Perlovsky, titled "Cognitive algorithms for engineering applications: dynamic logic, neural fields, and the mind."

As always, any conference is only as good as the planners, authors, presenters, and attendees make it. In that respect, we have yet to see a better mix of all the ingredients. For those of you who attended, we hope you came away a little more enlightened than when you arrived. We sincerely hope you appreciate the papers that follow, and that they serve to foster further research into, and application of, evolutionary and bio-inspired computation. We look forward to seeing you next year at Evolutionary and Bio-Inspired Computation: Theory and Applications II, to be held at the SPIE Defense and Security Symposium from 16–21 March 2008 in the Orlando, Florida, World Center Marriott Resort and Convention Center.

Misty K. Blowers
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