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Front Matter: Volume 6563

, "Front Matter: Volume 6563," Proc. SPIE 6563, Evolutionary and Bio-inspired Computation: Theory and Applications, 656301 (22 April 2009); doi: 10.1117/12.746442

SPIE.

Event: Defense and Security Symposium, 2007, Orlando, Florida, United States

PROCEEDINGS OF SPIE

Evolutionary and Bio-inspired Computation: Theory and Applications

**Misty Blowers
Alex F. Sisti**
Editors

**12–13 April 2007
Orlando, Florida, USA**

Sponsored and Published by
SPIE—The International Society for Optical Engineering

Proceedings of SPIE—The International Society for Optical Engineering, 9780819466853, v. 6563

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Author(s), "Title of Paper," in *Evolutionary and Bio-inspired Computation: Theory and Applications*, edited by Misty Blowers, Alex F. Sisti, Proceedings of SPIE Vol. 6563 (SPIE, Bellingham, WA, 2007) Article CID Number.

ISSN 0277-786X
ISBN 9780819466853

Published by
SPIE—The International Society for Optical Engineering
P.O. Box 10, Bellingham, Washington 98227-0010 USA
Telephone 1 360/676-3290 (Pacific Time) • Fax 1 360/647-1445
<http://www.spie.org>

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Printed in the United States of America.

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Pagination: Proceedings of SPIE follow an e-First publication model, with papers published first online and then in print and on CD-ROM. Papers are published as they are submitted and meet publication criteria. A unique, consistent, permanent citation identifier (CID) number is assigned to each article at the time of the first publication. Utilization of CIDs allows articles to be fully citable as soon they are published online, and connects the same identifier to all online, print, and electronic versions of the publication. SPIE uses a six-digit CID article numbering system in which:

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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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