

1. Record Nr.	UNISA996465711903316
Titolo	Parallel Problem Solving from Nature - PPSN VIII [[electronic resource] ] : 8th International Conference, Birmingham, UK, September 18-22, 2004, Proceedings // edited by Xin Yao, Edmund Burke, Jose A. Lozano, Jim Smith, Juan J. Merelo-Guervós, John A. Bullinaria, Jonathan Rowe, Peter Tino, Ata Kabán, Hans-Paul Schwefel
Pubbl/distr/stampa	Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 2004
ISBN	3-540-30217-4
Edizione	[1st ed. 2004.]
Descrizione fisica	1 online resource (XL, 1188 p.)
Collana	Lecture Notes in Computer Science, , 0302-9743 ; ; 3242
Disciplina	004/.35
Soggetti	Architecture, Computer Computers Algorithms Computer programming Software engineering Artificial intelligence Computer System Implementation Computation by Abstract Devices Algorithm Analysis and Problem Complexity Programming Techniques Software Engineering Artificial Intelligence
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di contenuto	Theory -- New Algorithms -- Applications -- Multi-objective Optimisation -- Co-evolution -- Robotics and Multi-agent Systems -- Learning Classifier Systems and Data Mining.
Sommario/riassunto	We are very pleased to present this LNCS volume, the proceedings of the 8th International Conference on Parallel Problem Solving from Nature (PPSN VIII). PPSN is one of the most respected and highly regarded conference series in evolutionary computation and natural

computing/computation. This biennial event was first held in Dortmund in 1990, and then in Brussels (1992), Jerusalem (1994), Berlin (1996), Amsterdam (1998), Paris (2000), and Granada (2002). PPSN VIII continues to be the conference of choice by researchers all over the world who value its high quality. We received a record 358 paper submissions this year. After an extensive peer review process involving more than 1100 reviews, the programme committee selected the top 119 papers for inclusion in this volume and, of course, for presentation at the conference. This represents an acceptance rate of 33%. Please note that review reports with scores only but no textual comments were not considered in the chairs' ranking decisions. The papers included in this volume cover a wide range of topics, from evolutionary computation to swarm intelligence and from bio-inspired computing to real-world applications. They represent some of the latest and best research in evolutionary and natural computation. Following the PPSN tradition, all papers at PPSN VIII were presented as posters. There were 7 sessions: each session consisting of around 17 papers. For each session, we covered as wide a range of topics as possible so that participants with different interests would find some relevant papers at every session.

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