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Soggetti	Artificial intelligence Bioinformatics Computer science Pattern recognition systems Algorithms Computer science—Mathematics Discrete mathematics Artificial Intelligence Computational and Systems Biology Theory of Computation Automated Pattern Recognition Discrete Mathematics in Computer Science
Lingua di pubblicazione	Inglese
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Note generali	International conference proceedings.
Nota di bibliografia	Includes bibliographical references and author index.
Nota di contenuto	evolutionary computation -- machine learning, classifier systems, image processing -- experimental analysis, encoding, EDA, GP; multiobjective optimization -- swarm intelligence, collective behavior, coevolution and robotics -- memetic algorithms, hybridized techniques, meta and hyperheuristics -- applications.
Sommario/riassunto	The two volume set LNCS 7491 and 7492 constitutes the refereed proceedings of the 12th International Conference on Parallel Problem Solving from Nature, PPSN 2012, held in Taormina, Sicily, Italy, in

September 2012. The total of 105 revised full papers were carefully reviewed and selected from 226 submissions. The meeting began with 6 workshops which offered an ideal opportunity to explore specific topics in evolutionary computation, bio-inspired computing and metaheuristics. PPSN 2012 also included 8 tutorials. The papers are organized in topical sections on evolutionary computation; machine learning, classifier systems, image processing; experimental analysis, encoding, EDA, GP; multiobjective optimization; swarm intelligence, collective behavior, coevolution and robotics; memetic algorithms, hybridized techniques, meta and hyperheuristics; and applications.