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Descrizione fisica	1 online resource (XIX, 498 p. 198 illus.)
Collana	Theoretical Computer Science and General Issues, , 2512-2029 ; ; 9141
Disciplina	006.3
Soggetti	Algorithms Numerical analysis Data mining Computer simulation Artificial intelligence Numerical Analysis Data Mining and Knowledge Discovery Computer Modelling Artificial Intelligence
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Novel swarm-based optimization algorithms and applications -- Particle swarm optimization -- Ant colony optimization -- Artificial bee colony algorithms -- Evolutionary and genetic algorithms -- Differential evolution -- Brain storm optimization algorithm -- Biogeography based optimization -- Cuckoo search -- Hybrid methods -- Multi-objective optimization -- Multi-agent systems and swarm robotics -- Neural networks and fuzzy methods -- Data mining approaches -- Information security -- Automation control -- Combinatorial optimization algorithms -- Scheduling and path planning -- Machine learning -- Blind sources separation -- Swarm interaction behavior -- Parameters and system optimization -- Neural

networks -- Evolutionary and genetic algorithms -- Fuzzy systems -- Forecasting algorithms -- Classification -- Tracking analysis -- Simulation -- Image and texture analysis -- Dimension reduction -- System optimization -- Segmentation and detection system -- Machine translation -- Virtual management and disaster analysis.

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## Sommario/riassunto

This book and its companion volumes, LNCS volumes 9140, 9141 and 9142, constitute the proceedings of the 6th International Conference on Swarm Intelligence, ICSI 2015 held in conjunction with the Second BRICS Congress on Computational Intelligence, CCI 2015, held in Beijing, China in June 2015. The 161 revised full papers presented were carefully reviewed and selected from 294 submissions. The papers are organized in 28 cohesive sections covering all major topics of swarm intelligence and computational intelligence research and development, such as novel swarm-based optimization algorithms and applications; particle swarm optimization; ant colony optimization; artificial bee colony algorithms; evolutionary and genetic algorithms; differential evolution; brain storm optimization algorithm; biogeography based optimization; cuckoo search; hybrid methods; multi-objective optimization; multi-agent systems and swarm robotics; Neural networks and fuzzy methods; data mining approaches; information security; automation control; combinatorial optimization algorithms; scheduling and path planning; machine learning; blind sources separation; swarm interaction behavior; parameters and system optimization; neural networks; evolutionary and genetic algorithms; fuzzy systems; forecasting algorithms; classification; tracking analysis; simulation; image and texture analysis; dimension reduction; system optimization; segmentation and detection system; machine translation; virtual management and disaster analysis.

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