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Titolo	Applications of Firefly Algorithm and its Variants : Case Studies and New Developments / / edited by Nilanjan Dey
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Descrizione fisica	1 online resource (xiii, 266 pages) : illustrations
Collana	Springer Tracts in Nature-Inspired Computing, , 2524-552X
Disciplina	006.3
Soggetti	Computational intelligence Algorithms Mathematical optimization Computational Intelligence Algorithm Analysis and Problem Complexity Continuous Optimization
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Firefly Algorithm and its Variants in Digital Image Processing: A Comprehensive Review -- Development of firefly algorithm interface for parameter optimization of electrochemical based machining processes -- A Firefly Algorithm-based Approach for Identifying Coalitions of Energy Providers that Best Satisfy the Energy Demand -- Structural damage identification using adaptive hybride volutionary Firefly algorithm -- An automated approach for developing a Convolutional Neural Network using a modified Firefly algorithm for Image Classification.
Sommario/riassunto	The book discusses advantages of the firefly algorithm over other well-known metaheuristic algorithms in various engineering studies. The book provides a brief outline of various application-oriented problem solving methods, like economic emission load dispatch problem, designing a fully digital controlled reconfigurable switched beam nonconcentric ring array antenna, image segmentation, span minimization in permutation flow shop scheduling, multi-objective load dispatch problems, image compression, etc., using FA and its variants. It also covers the use of the firefly algorithm to select

features, as research has shown that the firefly algorithm generates precise and optimal results in terms of time and optimality. In addition, the book also explores the potential of the firefly algorithm to provide a solution to traveling salesman problem, graph coloring problem, etc.
