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Titolo	Applications of Evolutionary Computation [[electronic resource]] : EvoApplications 2012: EvoCOMNET, EvoCOMPLEX, EvoFIN, EvoGAMES, EvoHOT, EvoIASP, EvoNUM, EvoPAR, EvoRISK, EvoSTIM, and EvoSTOC, Málaga, Spain, April 11-13, 2012, Proceedings / / edited by Cecilia Di Chio, Alexandros Agapitos, Stefano Cagnoni, Carlos Cotta, Francisco Fernández de Vega, Gianni A. Di Caro, Rolf Drechsler, Anikó Ekárt, Anna I. Esparcia-Alcázar, Muddassar Farooq, W.B. Langdon, Juan-J. Merelo-Guervós, Mike Preuss, Hendrik Richter, Sara Silva, Anabela Simões, Giovanni Squillero, Ernesto Tarantino, Andrea Tettamanzi, Julian Togelius, Neil Urquhart, Sima Uyar, Georgios N. Yannakakis
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Disciplina	004.0151
Soggetti	Computer science Computer programming Computer networks Computer science—Mathematics Computer vision Artificial intelligence Theory of Computation Programming Techniques Computer Communication Networks Mathematical Applications in Computer Science Computer Vision Artificial Intelligence
Lingua di pubblicazione	Inglese
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Livello bibliografico	Monografia
Note generali	International conference proceedings. Editors: Cecilia Di Chio, Alexandros Agapitos, Stefano Cagnoni, Carlos Cotta, Francisco Fernández de Vega, Gianni A. Di Caro, Rolf Drechsler, Anikó Ekárt, Anna I. Esparcia-Alcázar, Muddassar Farooq, W.B. Langdon, Juan-J. Merelo-Guervós, Mike Preuss, Hendrik Richter, Sara

	Silva, Anabela Simões, Giovanni Squillero, Ernesto Tarantino, Andrea Tettamanzi, Julian Togelius, Neil Urquhart, Sima Uyar, Georgios N. Yannakakis.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Optimizing Energy Consumption in Heterogeneous Wireless Sensor Networks by Means of Evolutionary Algorithms / Jose Manuel Lanza-Gutierrez, Juan Antonio Gomez-Pulido, Miguel A. Vega-Rodriguez and Juan Manuel Sanchez-Perez -- Network Protocol Discovery and Analysis via Live Interaction / Patrick LaRoche, A. Nur Zincir-Heywood and Malcolm I. Heywood -- Evolutionary Design of Active Free Space Optical Networks Based on Digital Mirror Devices / Steffen Limmer, Dietmar Fey, Ulrich Lohmann and Jurgen Jahns -- Frequency Robustness Optimization with Respect to Traffic Distribution for LTE System / Nourredine Tabia, Alexandre Gondran, Oumaya Baala and Alexandre Caminada -- Small-World Optimization Applied to Job Scheduling on Grid Environments from a Multi-Objective Perspective / Maria Arsuaga-Rios, Francisco Prieto-Castrillo and Miguel A. Vega-Rodriguez -- Testing Diversity-Enhancing Migration Policies for Hybrid On-Line Evolution of Robot Controllers / Pablo Garcia-Sanchez, A. E. Eiben, Evert Haasdijk, Berend Weel and Juan-Julian Merelo-Guervos -- Evolutionary Optimization of Pheromone-Based Stigmergic Communication / Tuze Kuyucu, Ivan Tanev and Katsunori Shimohara -- Hyperparameter Tuning in Bandit-Based Adaptive Operator Selection / Maciej Pacula, Jason Ansel, Saman Amarasinghe and Una-May O'Reilly -- $t Analyzing Dynamic Fitness Landscapes of the Targeting Problem of Chaotic Systems / Hendrik Richter -- Self-organization and Specialization in Multiagent Systems through Open-Ended Natural Evolution / Pedro Trueba, Abraham Prieto, Francisco Bellas, Pilar Caamano and Richard J. Duro -- An Empirical Tool for Analysing the Collective Behaviour of Population-Based Algorithms / Mikdam Turkey and Riccardo Poli -- Sales Potential Optimization on Directed Social Networks: A Quasi-Parallel Genetic Algorithm Approach / Crown Guan Wang and Kwok Yip Szeto -- The Emergence of Multi-cellular Robot Organisms through On-Line On-Board Evolution / Berend Weel, Evert Haasdijk and A. E. Eiben -- Evolving Seasonal Forecasting Models with Genetic Programming in the Context of Pricing Weather-Derivatives / Alexandros Agapitos, Michael O'Neill and Anthony Brabazon -- Steepest Ascent Hill Climbing for Portfolio Selection / Jonathan Arriaga and Manuel Valenzuela-Rendon -- A Neuro-evolutionary Approach to Intraday Financial Modeling / Antonia Azzini, Mauro Dragoni and Andrea G. B. Tettamanzi -- A Comparative Study of Multi-objective Evolutionary Algorithms to Optimize the Selection of Investment Portfolios with Cardinality Constraints / Feijoo E. Colomine Duran, Carlos Cotta and Antonio J. Fernandez-Leiva -- A GA Combining Technical and Fundamental Analysis for Trading the Stock Market / Ivan Contreras, Jose Ignacio Hidalgo and Laura Nunez-Letamendia -- Evolutionary Data Selection for Enhancing Models of Intraday Forex Time Series / Michael Mayo -- Initial Results from Co-operative Co-evolution for Automated Platformer Design / Michael Cook, Simon Colton and Jeremy Gow -- Evolving Third-Person Shooter Enemies to Optimize Player Satisfaction in Real-Time / Jose M. Font -- Why Simulate? Hybrid Biological-Digital Games / Maarten H. Lamers and Wim van Eck -- Spicing Up Map Generation / Tobias Mahlmann, Julian Togelius and Georgios N. Yannakakis -- Dealing with Noisy Fitness in the Design of a RTS Game Bot / Antonio M. Mora, Antonio Fernandez-Ares, Juan-Julian Merelo-Guervos and Pablo Garcia-Sanchez -- On Modeling, Evaluating and Increasing Players' Satisfaction Quantitatively: Steps towards a

Taxonomy / Mariela Nogueira, Carlos Cotta and Antonio J. Fernandez-Leiva -- Monte-Carlo Tree Search for the Physical Travelling Salesman Problem / Diego Perez, Philipp Rohlfshagen and Simon M. Lucas -- Diversified Virtual Camera Composition / Mike Preuss, Paolo Burelli and Georgios N. Yannakakis -- Digging Deeper into Platform Game Level Design: Session Size and Sequential Features / Noor Shaker, Georgios N. Yannakakis and Julian Togelius -- Robot Base Disturbance Optimization with Compact Differential Evolution Light / Giovanni Iacca, Fabio Caraffini, Ferrante Neri and Ernesto Mininno -- Electrocardiographic Signal Classification with Evolutionary Artificial Neural Networks / Antonia Azzini, Mauro Dragoni and Andrea G. B. Tettamanzi -- A Genetic Fuzzy Rules Learning Approach for Unseeded Segmentation in Echography / Leonardo Bocchi and Francesco Rogai -- Object Recognition with an Optimized Ventral Stream Model Using Genetic Programming / Eddie Clemente, Gustavo Olague, Leon Dozal and Martin Mancilla --
Evolving Visual Attention Programs through EVO Features / Leon Dozal, Gustavo Olague, Eddie Clemente and Marco Sanchez -- Evolutionary Purposive or Behavioral Vision for Camera Trajectory Estimation / Daniel Hernandez, Gustavo Olague, Eddie Clemente and Leon Dozal -- On Evolutionary Approaches to Unsupervised Nearest Neighbor Regression / Oliver Kramer -- Evolutionary Regression Machines for Precision Agriculture / Heikki Salo, Ville Tirronen and Ferrante Neri -- A Generic Approach to Parameter Control / Giorgos Karafotias, S. K. Smit and A. E. Eiben -- Applying (Hybrid) Metaheuristics to Fuel Consumption Optimization of Hybrid Electric Vehicles / Thorsten Krenek, Mario Ruthmair, Gunther R. Raidl and Michael Planer -- Improved Topological Niching for Real-Valued Global Optimization / Mike Preuss -- Towards a Deeper Understanding of Trade-offs Using Multi-objective Evolutionary Algorithms / Pradyumn Kumar Shukla, Christian Hirsch and Hartmut Schmeck -- OpenCL Implementation of Particle Swarm Optimization: A Comparison between Multi-core CPU and GPU Performances / Stefano Cagnoni, Alessandro Bacchini and Luca Mussi -- A Library to Run Evolutionary Algorithms in the Cloud Using MapReduce / Pedro Fazenda, James McDermott and Una-May O'Reilly -- A Fair Comparison of Modern CPUs and GPUs Running the Genetic Algorithm under the Knapsack Benchmark / Jiri Jaros and Petr Pospichal -- Validating a Peer-to-Peer Evolutionary Algorithm / Juan Luis Jimenez Laredo, Pascal Bouvry, Sanaz Mostaghim and Juan-Julian Merelo-Guervos --
Pool-Based Distributed Evolutionary Algorithms Using an Object Database / Juan-Julian Merelo-Guervos, Antonio Mora, J. Albert Cruz and Anna I. Esparcia -- Migration and Replacement Policies for Preserving Diversity in Dynamic Environments / David Millan-Ruiz and Jose Ignacio Hidalgo -- Distributed Simulated Annealing with MapReduce / Atanas Radenski -- Flex-GP: Genetic Programming on the Cloud / Dylan Sherry, Kalyan Veeramachaneni, James McDermott and Una-May O'Reilly -- Customized Normalcy Profiles for the Detection of Targeted Attacks / Victor Skormin, Tomas Nykodym, Andrey Dolgikh and James Antonakos -- A Novel Multiobjective Formulation of the Robust Software Project Scheduling Problem / Francisco Chicano, Alejandro Cervantes, Francisco Luna and Gustavo Recio -- Optimizing the Unlimited Shift Generation Problem / Nico Kyngas, Dries Goossens, Kimmo Nurmi and Jari Kyngas -- Ant Colony Optimization with Immigrants Schemes for the Dynamic Vehicle Routing Problem / Michalis Mavrovouniotis and Shengxiang Yang -- Evolving Communication in Robotic Swarms Using On-Line, On-Board, Distributed Evolutionary Algorithms / Luis E. Pineda, A. E. Eiben and

Marteen van Steen -- Virtual Loser Genetic Algorithm for Dynamic Environments / Anabela Simoes and Ernesto Costa.

Sommario/riassunto

This book constitutes the refereed proceedings of the International Conference on the Applications of Evolutionary Computation, EvoApplications 2012, held in Málaga, Spain, in April 2012, colocated with the Evo* 2012 events EuroGP, EvoCOP, EvoBIO, and EvoMUSART. The 54 revised full papers presented were carefully reviewed and selected from 90 submissions. EvoApplications 2012 consisted of the following 11 tracks: EvoCOMNET (nature-inspired techniques for telecommunication networks and other parrallel and distributed systems), EvoCOMPLEX (algorithms and complex systems), EvoFIN (evolutionary and natural computation in finance and economics), EvoGAMES (bio-inspired algorithms in games), EvoHOT (bio-inspired heuristics for design automation), EvoIASP (evolutionary computation in image analysis and signal processing), EvoNUM (bio-inspired algorithms for continuous parameter optimization), EvoPAR (parallel implementation of evolutionary algorithms), EvoRISK (computational intelligence for risk management, security and defense applications), EvoSTIM (nature-inspired techniques in scheduling, planning, and timetabling), and EvoSTOC (evolutionary algorithms in stochastic and dynamic environments).

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Descrizione fisica	1 online resource [402 pages]
Altri autori (Persone)	MillerPeter (Peter Graeme) StrangJohn MillerPeter M <1942-> (Peter Michael)
Disciplina	616.86/027
Soggetti	Substance abuse - Research - Methodology Psychiatry - Research - Methodology
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Sommario/riassunto	Addiction Research Methods' is a comprehensive handbook for health professionals, policy-makers and researchers working and training in the field of addiction. The book provides a clear, comprehensive and practical guide to research design, methods and analysis within the context of the field of alcohol and other drugs. The reader is introduced to fundamental principles and key issues; and is orientated to available sources of information and key literature. Written by a team of internationally acclaimed contributors, the book is divided into six major sections: Introduction; Research Design; Basic Toolbox; Biological Models; Specialist Methods; and Analytical Methods. Each chapter offers an introduction to the background and development of

the discipline in question, its key features and applications, how it compares to other methods/analyses and its advantages and limitations. FEATURES * List of useful websites and assistive technology. * Case study examples * List of useful hermeneutics * Recommended reading list * Contains exercises to help the reader to develop their skills.