1. Record Nr. UNISA996546820303316

Autore	Kulkarni Anand J
Titolo	Optimization Methods for Product and System Design [[electronic resource] /] / edited by Anand J. Kulkarni
Pubbl/distr/stampa	Singapore : , : Springer Nature Singapore : , : Imprint : Springer, , 2023
ISBN	981-9915-21-X
Edizione	[1st ed. 2023.]
Descrizione fisica	1 online resource (266 pages)
Collana	Engineering Optimization: Methods and Applications, , 2731-4057
Disciplina	658.5752
Soggetti	Computer-aided engineering Industrial engineering Production engineering Engineering design Computer-Aided Engineering (CAD, CAE) and Design Industrial and Production Engineering Engineering Design
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Multi-objective Optimization of Ventilated Brake Disc based on Finite Element Simulation -- Multi Response Optimization on Process Parameters of WEDM for Ti-6Al-4V Alloy Using Grey Relational Approach -- Tuning of Complex Coefficient Fractional Complex Order Controllers for a Generalized System Structure - An Optimisation Approach -- A Review on Intelligent Optimization Techniques based Fault Detection and Diagnosis in Power System Applications -- Prediction of Surface Roughness using Desirability Concept and Support Vector Machine for Fused Deposition Modeling Part -- An Extremum Model for the Performance Analysis of a Loop Heat Pipe using Nano-fluids -- Selected Multi-Criteria Decision-Making Methods and their Applications to Product and System Design -- Cohort Intelligence Solution to Bank Asset Liability Management -- Cohort Intelligence Solution to Goal Programming Problems from Financial Management Domain -- Solving Asset and Liability Management Problem using Cohort Intelligence and Goal Programming -- Proposing a New Feature Clustering Method in order to the Binary Classification of Covid-19 in

Computed Tomography Images -- Deep Learning Framework for Brain Tumor and Alzheimer Disease Prognosis using MRI Images -- Genetic Algorithm to Maximize the Tourist's Satisfaction: An Assessment of Technology Adoption for a Tourist App.

Sommario/riassunto

This edited book provides a platform to discuss the state-of-the-art developments associated with traditional and advanced single-/multi-objective criteria optimization methods for addressing problems of performance enhancement of the products and systems design. The book in detail discusses the core ideas, underlying principles, mathematical formulations, critical reviews and experimentations, and solutions to complex problems from within the domains such as mechanical engineering design and manufacturing, fault detection and diagnosis, control systems, financial systems, machine learning in medical image processing as well as problems from operations research domain. It will serve as a valuable reference to academicians and industry practitioners involved in improving the efficiency, cost, performance, and durability of the products and systems. The chapters in this book may further give impetus to explore new avenues leading towards multidisciplinary research discussions associated with the resilience and sustainability of the existing systems.

2. Record Nr. UNINA9910349384803321

Titolo	High Performance Computing : ISC High Performance 2018 International Workshops, Frankfurt/Main, Germany, June 28, 2018, Revised Selected Papers / / edited by Rio Yokota, Michele Weiland, John Shalf, Sadaf Alam
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2018
ISBN	3-030-02465-2
Edizione	[1st ed. 2018.]
Descrizione fisica	1 online resource (XXII, 757 p. 284 illus., 216 illus. in color.)
Collana	Theoretical Computer Science and General Issues, , 2512-2029 ; ; 11203
Disciplina	004.3 004.11
Soggetti	Computer engineering Computer networks Computer input-output equipment Logic design Compilers (Computer programs) Computer programming Artificial intelligence Computer Engineering and Networks Input/Output and Data Communications Logic Design Compilers and Interpreters Programming Techniques Artificial Intelligence
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Sommario/riassunto	This book constitutes the refereed post-conference proceedings of 13 workshops held at the 33rd International ISC High Performance 2018 Conference, in Frankfurt, Germany, in June 2018: HPC I/O in the Data Center, HPC-IODC 2018; Workshop on Performance and Scalability of

Storage Systems, WOPSSS 2018; 13th Workshop on Virtualization in High--Performance Cloud Computing, VHPC 2018; Third International Workshop on In Situ Visualization, WOIV 2018; 4th International Workshop on Communication Architectures for HPC, Big Data, Deep Learning and Clouds at Extreme Scale, ExaComm 2018; International Workshop on OpenPOWER for HPC, IWOPH 2018; IXPUG Workshop: Many-Core Computing on Intel Processors; Workshop on Sustainable Ultrascale Computing Systems; Approximate and Transprecision Computing on Emerging Technologies, ATCET 2018; First Workshop on the Convergence of Large-Scale Simulation and Artificial Intelligence; Third Workshop for Open Source Supercomputing, OpenSuCo 2018; First Workshop on Interactive High-Performance Computing; Workshop on Performance Portable Programming Models for Accelerators, P^3MA 2018. The 53 full papers included in this volume were carefully reviewed and selected from 80 submissions. They cover all aspects of research, development, and application of large-scale, high performance experimental and commercial systems. Topics include HPC computer architecture and hardware; programming models, system software, and applications; solutions for heterogeneity, reliability, power efficiency of systems; virtualization and containerized environments; big data and cloud computing; and artificial intelligence.