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Altri autori (Persone)	KesswaniNishtha BriguiMene
Disciplina	006.3
Soggetti	Mathematical statistics Neural networks (Computer science) Computational intelligence Mathematical Statistics Mathematical Models of Cognitive Processes and Neural Networks Computational Intelligence Intel·ligència computacional Congressos Llibres electrònics
Lingua di pubblicazione	Inglese
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Livello bibliografico	Monografia
Nota di contenuto	Development of Energy Efficient Routing Protocol for Lifespan Optimization in Wireless Sensor Networks (EERP) (A. Yadav) -- Sentiment Analysis using Social Media and Product Reviews (S. Kumar) -- A Stable Model for Learning and Memorization in Over-Parameterized Networks (S. Kumar) -- Analysis of Depth Sensing & Lane Detection Algorithms for Advanced Driver Assistance Systems (S. Mondal) -- Implementation Of E-Commerce Application with Analytics (Pooja M R) -- A Survey on the latest intrusions & their detection systems in IoT-based networks (S. Majumder) -- Design and analysis of Z-Source Inverter with Maximum Constant Boost Control Method (S. Sonar) -- SPV/Wind Energy-based Hybrid Grid-Connected System with Optimum Power Flow Operation (S. Rauth) -- A Study on Benchmarks

for Ectopic Pregnancy Classification using Deep Learning Based on Risk Criteria (L. Suresh) -- An ontology-based approach for making smart suggestions based on sequence-based context modeling and deep learning classifications (S. Cheriyam) -- Simulation of GA Based Harmonics Elimination in CHMLI using DTC for Dynamic load (A. Sharma) -- Discussing the future perspective of Machine learning and Artificial Intelligence in COVID-19 Vaccination: A review (R. Roy) -- Embedded Platform based Heart Lung Sounds Separation using Variational Mode Decomposition (M. Mishra) -- MIMO- Modulation Schemes for Visible Light Communication in Indoor Scenarios (V. Vakamullu) -- Image Resampling Forensics: A Review on Techniques for Image Authentication (V. Kadha) -- The Impact of Perceived Justice and Customer Trust on Customer Loyalty (A. S. Rao) -- Performance analysis of wind diesel generation with three phase fault (A. Sharma) -- C-RPI : Cluster based Rendezvous Point Identification and Mobile Sink based data collection in LR-WPAN (Jayalekshmi S) -- Effect of Weather on COVID-19 pandemic in North East India (P. Das) -- A comparative study on the performance of Soft Computing models in the prediction of Orthopedic disease in the environment of Internet of Things (J. P. Choudhury) -- Maximization of Active Power Delivery in WECS Using BDFRG (M Paul) -- Identification and Detection of Credit Card Frauds Using CNN (Nalayini C M) -- Different degradation modes of field deployed Photovoltaic modules: A literature review (P. Das) -- Impact of Security Attacks on Spectrum Allocation in Cognitive Radio Networks (W. Singh) -- Human Activity Detection Using Attention Based Deep Network (M. Kumar) -- Software Vulnerability classification Using Learning Techniques (B. Verma) -- Service Recovery: Past, Present, and Future (A. S. Rao) -- An in-depth accessibility analysis of top online shopping websites (N Kesswani).

Sommario/riassunto

Computational intelligence consists of those techniques that imitate the human brain and nature to adopt the decision-making approach. This book contains selected papers from the 8th International Conference on Computers, Management and Mathematical Sciences (ICCM) 2022 about fuzzy systems, neural networks and evolutionary computation that can address stochastic environments where reasoning is a significant attribute to derive potential solutions and focus on the business domain's computational aspects. This is a conference proceedings for scholars/students who are using the powerful algorithms, concepts and principles of computational intelligence in a wide spectrum of research cases.

2. Record Nr.	UNINA9910416145903321
Titolo	31st International Symposium on Shock Waves 2 : Applications / / edited by Akihiro Sasoh, Toshiyuki Aoki, Masahide Katayama
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Descrizione fisica	1 online resource (1,148 pages)
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Soggetti	Aerospace engineering Astronautics Continuum mechanics Fluid mechanics Physical chemistry Computational intelligence Aerospace Technology and Astronautics Continuum Mechanics Engineering Fluid Dynamics Physical Chemistry Computational Intelligence
Lingua di pubblicazione	Inglese
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Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Chapter1. Strength and Frequency of Underwater Shock Waves Related to Sterilization Effects on a Marine Bacterium -- Chapter2. Effects of Liquid Impurity on Laser-Induced Gas Breakdown in Quiescent Gas: Experimental and Numerical Investigations -- Chapter3. Air Blast from a Structural Reactive Material Solid -- Chapter5. Experimental study on Configuration Effects of Supersonic Projectiles in Transitional Ballistic Regimes -- Chapter6. Non-Ideal Blast Waves from Particle-Laden Explosives -- Chapter7. Attenuation of Blast Wave in a Duct with Expansion Region (Effects of configuration, porous panel, and acoustic material) -- Chapter8. Enhancement of Deflagration-to-Detonation Transition Process with Energetic Solid Particle -- Chapter9. Large Scale Computation of Direct Initiation of Cylindrical Detonations --

Chapter10.Numerical Study on a Cycle of Liquid Pulse Detonation Engines -- Chapter11.Experimental investigate on the flame-shock wave interaction and pressure oscillation in a confined combustion chamber -- Chapter12.The Influence of Spatial Heterogeneity in Energetic Material on Non-ideal Detonation Propagation -- Chapter13. Detonation Experiment Research of Gaseous Mixtures with Suspended Metal Particles -- Chapter14.Large Eddy Simulation of Mixing Characteristic in the Cold Rotating-Detonation Chamber -- Chapter15. Research on the Continuous Rotating Detonation Wave in a Hollow Chamber with Laval Nozzle -- Chapter16.Experimental Study on a Long Duration Operation of a Rotating Detonation Engine -- Chapter17. Decaying modes of propagation of spinning detonation and flame front in narrow channel -- Chapter18.Measurement of gaseous fuel concentration in rotating detonation engines -- Chapter19. Investigation of High-Frequency Pulse Detonation Cycle with Fuel Phase Transition -- Chapter20.Simulations of Hydrogen Detonation in Vibrational Non-equilibrium -- Chapter21.Aerodynamic Force Measurement in a Large-Scale Shock Tunnel -- Chapter22.Trial Implementation of TiN Surface Coating for a Main Piston Towards Reducing the Opening Time for a Diaphragmless Driver Section -- Chapter23.Aerodynamic Force Measurement Techniques in JF12 Shock Tunnel -- Chapter24.Optimising the X3R Reflected Shock Tunnel Free-Piston Driver for Long Duration Test Times -- Chapter25.Development and Analysis of an Apollo Earth Re-entry Condition with Representative Post-shock Reynolds Number in the X2 Expansion Tunnel -- Chapter26.Liquid-Coupled Dual Piston Driver for Small-Scale Shock Tubes -- Chapter27.Initial testing of a 2m Mach-10 free piston Shock tunnel at CAAA -- Chapter28.CFD Evaluation and Experiment test of the Running time of the Hypersonic Ludwieg Tube Quiet Wind Tunnel -- Chapter29.Development and Performance Study of Shock Tube with Extended Test-times for Materials Research -- Chapter30.Measurement of Temperature Field around Spiked Bodies at Hypersonic Mach Numbers -- Chapter31.Three-dimensional Laser Interferometric CT density measurement of unsteady flow field around a cylinder induced by discharged shock wave from a cylindrical nozzle -- Chapter32. Curved shock wave propagation in environmental stratosphere by laser ablation -- Chapter33.Hypervelocity tests with a detonation driven expansion tube -- Chapter34.Experiments in HEG related to sonic line and shock stand-off distance on capsule shapes -- Chapter35.Catalytic Recombination Characteristics of Atomic Oxygen on Material Surfaces by Optical Emission Spectroscopy -- Chapter36.Influence of Dual Ignition on Test Conditions of a High Enthalpy Shock Tunnel -- Chapter37.Ablation Measurements in A Low Density Heat Shield Using Ablation Sensor Unit -- Chapter38.The Development of High Enthalpy Reentry Conditions in the X3 Expansion Tube -- Chapter39.Prediction of Intensity Profiles behind a Shock Wave Travelling in Air at Speeds Exceeding 12 km/s -- Chapter40.Revisiting temperature measurements at the focus of spherically converging shocks in argon -- Chapter41.Influence of Matrix Resin on Impact Resistance of CFRP by a SmallSphere -- Chapter42.Improvement of Impact Resistance of Ceramics by using Resin-based Materials -- Chapter43.Measurement of Plasma Formed by High-speed Impact to Estimate Temperature at Impact Point -- Chapter44.Application of Riemann Solver for Compressible and Non-Expanding Fluid to Impact on Regolith -- Chapter45.Mathematical modeling of the impact of high-speed metallic plates -- Chapter46.Study of Shock Impact Pressure Amplification and Attenuation of Acoustic Waves in E-Glass Material -- Chapter47. Reconstruction of Recoilless Weapon Blast Environments Using High-

fidelity Simulations -- Chapter48. Contribution of Cavitation Generation to Shock Wave Sterilization Effects in a Narrow Water Chamber -- Chapter49. Shockwaves confer immunity against infections in mice -- Chapter50. On the relation between the shock wave thickness in biomaterials and the threshold for blast induced neuro-trauma -- Chapter51. Development of a miniaturized focused shock wave generator for medical application -- Chapter52. Intracellular Ca²⁺ Increase Evoked by Single Acoustic Pulses -- Chapter53. A new device for crossing chronic total occlusions -- Chapter54. Medical application of shock waves: Developing the treatment application and understanding of injury -- Chapter55. Towards non-invasive insulin injection via control of the electrical breakdown in liquid -- Chapter56. Current Trend in Cell Membrane Manipulation by Ultrasound and Underwater Shock Wave -- Chapter57. Analysis of Deformation Process of a Bubble in an Elastic Capsule by Shock Waves and Their Medical and Biological Applications -- Chapter58. Shockwaves can cure biofilm infections in-vivo in combination with antibiotics -- Chapter60. Simulation of shock-bubbles interaction using a four-equation homogeneous model -- Chapter61. A Study of Dispersion, Vaporization, and Combustion of Burnable Liquids Surrounding Charges -- Chapter62. Multi-scale simulation of the interaction of a shock wave and a cloud of particles -- Chapter63. Surface Jetting Induced by Explosion in Liquid below an Immersed Bubble -- Chapter64. Generation Frequency of Rebound Shock Waves from Bubble Collapses in Cavitation Jet -- Chapter65. Experimental Study on the Influence of Underwater Explosion Depth on the Disintegration of Thin Resin Plate Attached Microbubbles -- Chapter66. Numerical Study of the Flow Separation in a Rocket Nozzle -- Chapter67. Hybrid RANS/LES simulation of shock-induced separated flow in truncated ideal contour nozzle -- Chapter68. Experimental Study of TICTOP Nozzles -- Chapter69. Three-Dimensional Instability of Shock-Wave/Boundary-Layer Interaction for Rocket Engine Nozzle Applications -- Chapter70. Shock interactions in Thrust Optimized Parabolic (TOP) Nozzles during Start-Up and Shut Down -- Chapter71. Shock System Deformation in High Mach Number Rocket Nozzles -- Chapter72. Interaction of Droplets with Incident Shock Waves -- Chapter73. A compact finite volume method for computing shock waves on hybrid grids -- Chapter74. Numerical Modelling of the Effects of Surface Roughness on Blunt Body Heat Transfer. -- Chapter75. Numerical study of shock propagation in liquid/gas media -- Chapter76. CFD models of shocks and flow fields associated with decelerating spheres in terms of flow history and inertial effects -- Chapter77. Conjugate Heat Transfer Analysis in a Hypersonic Flow -- Chapter78. Laser-induced shock waves in micro tubes -- Chapter79. Study of MHD Effects in the High-Enthalpy Shock Tunnel Göttingen (HEG) using a 30T Pulsed Magnet System -- Chapter80. An Electrodynamic Aerobraking Experiment in a Rarefied Arc-Heated Flow -- Chapter81. Blast Wave Propagation Affected by Ground Characteristics -- Chapter82. Multiple reflected shock wave in closed volume with granular screen -- Chapter83. Some aspects of the numerical modeling of shock wave - dense particles bed interaction using two-fluid approach -- Chapter84. To the complex approach to the numerical investigation of the shock wave - dense particles bed interaction -- Chapter85. Numerical Study on Shock Wave Reflection over a Double Wedge in Dusty Gas -- Chapter86. Shock and Blast Wave Interaction With Hard Sand Pan -- Chapter87. Long time history of unsteady drag on shock accelerated micro-particles -- Chapter88. Shock Focusing Effect upon Interaction of a Shock with Low-Density Dust Cloud -- Chapter89. Shock-induced motion of a spherical particle

floating in air -- Chapter90.Exploring the capability of a new shock tube facility to investigate shock interaction with inert particle columns -- Chapter91.MITIGATION OF BLAST IN A WATER MIST -- Chapter92. Shock wave propagation through a series of perforated plates -- Chapter93.Experimental Investigation of Strong Shock Heated Gases Interacting with Materials in Powder form -- Chapter94.Selective shock-refraction properties in non-ideal fluids -- Chapter95.A Numerical Investigation of Oblique Shock Waves in Non-Ideal Compressible-Fluid Flows -- Chapter96.Assessment of real gas effects on SCO₂ flows with shock waves -- Chapter97.Structure of shock waves in noble gases under high density conditions. -- Chapter98. Mach 4 Shock Train Structures in Rectangular Ducts -- Chapter99. Control of Shock Trains within Supersonic Intakes through the addition of Cavities -- Chapter100.Experiments in Supersonic Gaseous Ejector using 2D PIV Technique -- Chapter101.Numerical analysis of surface heat flux in a forward facing cavity -- Chapter102.Large Eddy Simulation of Expansion Wave Diffraction -- Chapter103.In-pipe aerodynamic characteristics of a projectile in comparison with free-flight for transonic Mach numbers between 0.5 and 1.5 -- Chapter104. Experimental Investigation of Shock Wave Characteristics in Small Scale Circular Channel -- Chapter105.Shock Oscillation Studies with Varying Stagnation Pressure in a Supersonic Diffuser -- Chapter106. Measurement of shock wave attenuation in microchannels -- Chapter107.Surface jets produced from an underwater shock wave --.

Sommario/riassunto

This is the second volume of a two volume set which presents the results of the 31st International Symposium on Shock Waves (ISSW31), held in Nagoya, Japan in 2017. It was organized with support from the International Shock Wave Institute (ISWI), Shock Wave Research Society of Japan, School of Engineering of Nagoya University, and other societies, organizations, governments and industry. The ISSW31 focused on the following areas: Blast waves, chemical reacting flows, chemical kinetics, detonation and combustion, ignition, facilities, diagnostics, flow visualization, spectroscopy, numerical methods, shock waves in rarefied flows, shock waves in dense gases, shock waves in liquids, shock waves in solids, impact and compaction, supersonic jet, multiphase flow, plasmas, magnetohydrodynamics, propulsion, shock waves in internal flows, pseudo-shock wave and shock train, nozzle flow, re-entry gasdynamics, shock waves in space, Richtmyer-Meshkov instability, shock/boundary layer interaction, shock/vortex interaction, shock wave reflection/interaction, shock wave interaction with dusty media, shock wave interaction with granular media, shock wave interaction with porous media, shock wave interaction with obstacles, supersonic and hypersonic flows, sonic boom, shock wave focusing, safety against shock loading, shock waves for material processing, shock-like phenomena, and shock wave education. These proceedings contain the papers presented at the symposium and serve as a reference for the participants of the ISSW 31 and individuals interested in these fields. Chapter "Effects of Liquid Impurity on Laser-Induced Gas Breakdown in Quiescent Gas: Experimental and Numerical Investigations" is available open access under a Creative Commons Attribution 4.0 International License via link.springer.com.
