1. Record Nr. UNINA9910483471703321

Autore	Alsolami Fawaz
Titolo	Decision and Inhibitory Trees and Rules for Decision Tables with Many-valued Decisions / / by Fawaz Alsolami, Mohammad Azad, Igor Chikalov, Mikhail Moshkov
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2020
ISBN	3-030-12854-7
Edizione	[1st ed. 2020.]
Descrizione fisica	1 online resource (276 pages)
Collana	Intelligent Systems Reference Library, , 1868-4408 ; ; 156
Disciplina	658.403
Soggetti	Computational intelligence Artificial intelligence Mathematical optimization Computational Intelligence Artificial Intelligence Optimization
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Sommario/riassunto	The results presented here (including the assessment of a new tool – inhibitory trees) offer valuable tools for researchers in the areas of data mining, knowledge discovery, and machine learning, especially those whose work involves decision tables with many-valued decisions. The authors consider various examples of problems and corresponding decision tables with many-valued decisions, discuss the difference between decision and inhibitory trees and rules, and develop tools for their analysis and design. Applications include the study of totally optimal (optimal in relation to a number of criteria simultaneously) decision and inhibitory trees and rules; the comparison of greedy heuristics for tree and rule construction as single-criterion and bi-criteria optimization algorithms; and the development of a restricted multi-pruning approach used in classification and knowledge representation.

2. Record Nr. UNINA9911007154703321

Autore	Dvorak Karel
Titolo	Binders, Materials and Technologies in Modern Construction VII
Pubbl/distr/stampa	Zurich : , : Trans Tech Publications, Limited, , 2021 ©2021
ISBN	1-5231-4554-4 3-0357-3870-X
Edizione	[1st ed.]
Descrizione fisica	1 online resource (222 pages)
Collana	Solid State Phenomena ; ; v.Volume 325
Altri autori (Persone)	GazdicDominik
Soggetti	Silicates Binders (Materials) Building materials
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Intro -- Binders, Materials and Technologies in Modern Construction VII -- Preface -- Table of Contents -- Chapter 1: Binders Based on Cementitious Composites -- A Numerical Approach to Multiscale Simulation of Cement Paste Strength -- Effect of Waste Glass on Portland Cement Hydration Process -- The Influence of Chrysotile Nanofibers Dispersion on the Physical and Mechanical Properties of the Cement Matrix -- Prediction of Sulfate Attack Products in Portland-Limestone Cements: The Effect of Cation Type and Concentration -- New Possibilities of Determining the Resistance of Cement Composite to Abrasion by Fast Flowing Water -- Characterization of Carbonatation Rate of Alkali-Activated Blast Furnace Slag in Various Environments -- The Effect of Opal-Containing Rocks on the Properties of Lightweight Oil-Well Cement -- Influence of the Chemical Composition of Bauxite on Mineral Formation and Properties of Sulfoaluminate-Ferrite Cement -- Scale Bridging in Computational Modelling of Quasi-Brittle Fracture of Cementitious Composites -- Use of Spongilites as Pozzolanic Additives in Cement Mortars -- Monitoring of the Effect of Grinding Raw Material Mixture and Soaking on the Formation of Monoclinic Phases of Alite -- Chapter 2: Binders Based on Lime and Gypsum -- The Influence of Phosphogypsum Microstructure on the Main Properties

of Press-Formed Samples -- Mechanical Properties of Reproduced Historic Mosaic Mortar -- Properties Affecting the Reactivity of Lime -- Decomposition of Crystalline Limestones during the Burning Process -- Gypsum Compositions Modified with Metallurgical Wastes -- Chapter 3: Progressive Materials and Technologies in Construction -- Design of High-Strength Concrete for Ready-Mixed Concrete Production -- Directed Regulation and Localization of Electrical Properties for Composite Construction Materials.
The Influence of Shrinkage-Reducing Additives on Volume Changes and Mechanical Parameters of a Concrete Composite -- Degradation of Materials Based on Alkali-Activated Blast-Furnace Slag after Exposure to Aggressive Environments -- Metakaolin Addition to Improve Geopolymerization Process and Properties of Waste Clay-Based Materials -- Influence of Nitrate Species ANO3 and ANO3·nH2O on Physico-Mechanical Properties of the Aluminosilicate Adhesives for Wood and Wooden Structures -- Cement-Bonded Sub-Base Layers of Walkable and Running Structures for Rainwater Management -- Study of High Strength Concretes with Variability of Composition Designs -- Study on Permeability of Concrete Fortifications from WW2 Based on Mercury Intrusion Porosimetry -- Possibilities of Using Pumice Aggregates into Thermal Insulation Lining of Industrial Chimneys -- Thermal and Thermomechanical Properties of Refractory Forsterite-Spinel Ceramics -- Influence of Fly Ash on Corrosion Resistance of Refractory Forsterite-Spinel Ceramics -- Analysis of Alkali Oxides Influence on the Microstructure of Refractory Grog -- Analysis of the Effect of Crystallization Additives on the Resistance of Self-Compacting Concrete Exposed to Aggressive Gases -- The New Chemically Resistant Material for the Invert Grouting Optimized by Secondary Raw Material -- Thermo-Mechanical Behavior of Fire Protection Boards -- Keyword Index -- Author Index.

Sommario/riassunto

Selected peer-reviewed full text papers from the 19th International Conference on Silicate Binders (ICBM 2020) Selected, peer-reviewed papers from the 19th International Conference on Silicate Binders (ICBM 2020), December 3, 2020, Brno, Chech Republic.