1. Record Nr. UNINA990001252450403321

Autore	Marie, Joseph Francois
Titolo	[Lezioni elementari di matematiche del sig. ab. Marie tradotte e illustrate da Stanislao Canovai e Gaetano del Ricco ...]
Pubbl/distr/stampa	Firenze : nella stamperia di Pietro Allegrini e Comp. : a spese di Giovacchino Pagani librajo, 1813
Edizione	[Edizione sesta corredata di nuovi elementi di calcolo differenziale ed integrale da Giovanni Inghirami ..]
Descrizione fisica	[2], 10, 444, LVI, 10 carte di tav. ripiegate : ill. calcografiche ; 8°
Altri autori (Persone)	Inghirami, Giovanni <1779-1851>
Disciplina	515.3
Locazione	MA1
Collocazione	1-D-14
Lingua di pubblicazione	Italiano
Formato	Materiale a stampa
Livello bibliografico	Monografia

2. Record Nr. UNINA9910254984503321

Titolo	Artificial Intelligence Applications and Innovations : 12th IFIP WG 12.5 International Conference and Workshops, AIAI 2016, Thessaloniki, Greece, September 16-18, 2016, Proceedings / / edited by Lazaros Iliadis, Ilias Maglogiannis
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2016
ISBN	3-319-44944-3
Edizione	[1st ed. 2016.]
Descrizione fisica	1 online resource (XXV, 711 p. 227 illus.)
Collana	IFIP Advances in Information and Communication Technology, , 1868-422X ; ; 475
Disciplina	006.3
Soggetti	Artificial intelligence Data mining Pattern recognition systems Application software Algorithms Computer networks Artificial Intelligence Data Mining and Knowledge Discovery Automated Pattern Recognition Computer and Information Systems Applications Computer Communication Networks
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Intro -- Preface -- Organization -- Invited Talks -- Discriminative Dimensionality Reduction for Data Inspection and Classifier Visualization -- Multimodality in Data Clustering: Application to Video Summarization -- Machine Learning of Motor Skills for Robots: From Simple Skills to Table Tennis and Manipulation -- Machine Learning Based Bioinformatics as a Tool for Big-Bata Analytics on Molecular Biology Datasets -- Contents -- Medical Artificial Intelligence Modeling (MAIM) -- A Cumulative Training Approach to Schistosomiasis Vector Density Prediction -- 1 Introduction -- 2 Experiment Data -- 3

Methods -- 3.1 Feature Assessment -- 3.2 Information Gain -- 4 Cumulative Training Approach (CTA) -- 5 Conclusion -- References -- A Mobile and Evolving Tool to Predict Colorectal Cancer Survivability -- 1 Introduction -- 2 Related Work -- 3 CRCPredictor: An Application for Survivability Prediction -- 3.1 Requirements for the Survivability Prediction Tool -- 3.2 Colon and Rectal Cancer Survivability Prediction Models -- 3.3 Architecture -- 3.4 Use Case -- 4 Analysis and Discussion -- 5 Conclusions and Future Work -- References -- An Implementation of a Decision-Making Algorithm Based on a Novel Health Status Transition Model of Epilepsy -- 1 Introduction -- 2 Transition Model of Epilepsy -- 3 The Implementation of the Model's Decision-Making Algorithm -- 3.1 The Applied Implementation Method -- 3.2 Ontology Engineering for Epilepsy -- 3.3 Implementation of the Decision-Making Algorithm -- 3.4 Input Data to the Decision-Making Algorithm -- 4 Evaluation of the Proposed Model -- 4.1 Kate's Epileptic Medical History and Profile -- 4.2 Kate's Telemonitoring Through the Proposed Algorithm -- 4.3 Discussion -- 5 Conclusions -- References. Integrative Bioinformatic Analysis of a Greek Epidemiological Cohort Provides Insight into the Pathogenesis of Primary Cutaneous Melanoma -- Abstract -- 1 Introduction -- 2 Materials and Methods -- 2.1 Analysis of Next Generation Exome Sequencing Data -- 2.2 Analysis of Transcriptomic Data -- 3 Results and Discussion -- 3.1 Mutational Data Derived from Exome Sequencing -- 3.2 Transcriptomic Data -- 3.3 Data Integration -- 4 Conclusions and Future Work -- Acknowledgements -- References -- Machine Learning Preprocessing Method for Suicide Prediction -- Abstract -- 1 Introduction -- 2 Suicide - Suicidal Ideation -- 3 What is Depression? -- 4 Data Collection -- 5 Description of Machine Learning Methods -- 5.1 Data Pre-processing Methods -- 5.1.1 Feature Selection -- 5.2 Short Description of Suggested Data Pre-processing Method -- 6 Experimental Results -- 7 Conclusions -- References -- Classification - Pattern Recognition (CLASPR) -- Using Frequent Fixed or Variable-Length POS Ngrams or Skip-Grams for Blog Authorship Attribution -- 1 Introduction -- 2 Related Work -- 3 The Proposed Approach -- 4 Experimental Evaluation -- 4.1 Influence of Parameters n, x, k, and maxgap on Overall Results -- 4.2 Influence of Parameters n, x and k on Authorship Attribution for Each Author -- 5 Conclusions -- References -- Increasing Diversity in Random Forests Using Naive Bayes -- 1 Introduction -- 2 Background Material -- 3 The Proposed Method -- 3.1 Numerical Experiments -- 4 Conclusions and Future Work -- References -- Identifying Asperity Patterns Via Machine Learning Algorithms -- Abstract -- 1 Introduction -- 2 Materials and Methods -- 2.1 Seismic Data -- 2.2 Data Representation -- 2.3 Feature Vector Extraction -- 3 Machine Learning Algorithms -- 4 Experimental Process -- 5 Evaluation -- 6 Conclusion -- Acknowledgments -- References. Combining Prototype Selection with Local Boosting -- 1 Introduction -- 2 Background Material -- 2.1 Local Weighted Learning and Prototype Selection -- 2.2 Boosting Classifiers -- 3 The Proposed Algorithm -- 4 Numerical Experiments -- 4.1 Prototype Selection -- 4.2 Using Decision Stump as Base Classifier -- 4.3 Using Two-Level Decision Tree as a Base Classifier -- 4.4 Time Analysis -- 5 Synopsis and Future Work -- References -- Convolutional Neural Networks for Pose Recognition in Binary Omni-directional Images -- Abstract -- 1 Introduction -- 2 Methodology -- 2.1 Overview of the Method -- 2.2 Calibration of the Fish-Eye Camera -- 2.3 Synthetically Generated Silhouettes -- 2.4 Convolutional Neural Networks -- 3 Results -- 4 Conclusions and Further Work -- References -- Ontology-Web and Social Media AI Modeling (OWESOM) -- The eLOD Ontology: Modeling Economic Open

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Sommario/riassunto

This book constitutes the refereed proceedings of the 12th IFIP WG 12.5 International Conference on Artificial Intelligence Applications and Innovations, AIAI 2016, and three parallel workshops, held in Thessaloniki, Greece, in September 2016. The workshops are the Third Workshop on New Methods and Tools for Big Data, MT4BD 2016, the 5th Mining Humanistic Data Workshop, MHDW 2016, and the First Workshop on 5G - Putting Intelligence to the Network Edge, 5G-PINE 2016. The 30 revised full papers and 8 short papers presented at the main conference were carefully reviewed and selected from 65 submissions. The 17 revised full papers and 7 short papers presented at the 3 parallel workshops were selected from 33 submissions. The papers cover a broad range of topics such as artificial neural networks, classification, clustering, control systems - robotics, data mining, engineering application of AI, environmental applications of AI, feature reduction, filtering, financial-economics modeling, fuzzy logic, genetic algorithms, hybrid systems, image and video processing, medical AI applications, multi-agent systems, ontology, optimization, pattern recognition, support vector machines, text mining, and Web-social media data AI modeling. .