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MEDICAL APPLICATIONS
OF ARTIFICIAL INTELLIGENCE

The advances in artificial intelligence (AI) research field have led to many useful industrial applications including but not limited to faster detection of problems, faster response time, reduced costs, improved quality and optimal work distribution.

It is clear that artificial intelligence systems can make providing healthcare more accurate, affordable, accessible, consistent, and efficient. Despite this, AI technologies have not been as well integrated into medicine as predicted. To overcome this obstacle an interdisciplinary approach is required with the development of hybrid systems that can capture in an effective and efficient manner the experience of medical care professionals and enhance it with the capabilities of AI systems.

The book starts with an overview of the artificial intelligence concepts, tools and commonly used techniques. Following that introductory part Medical Applications of Artificial Intelligence then reviews the current research trends, focusing on state-of-the-art projects in the field. The authors provide an extensive recapitulation of the medical applications of artificial intelligence, while exploring new developments and discussing the persistent challenges.

Table of Contents
Preface ...................................................................................................................................................... ix
Chapter 1 Introduction to Medical Applications of Artificial intelligence
Arvin Agah.............................................................................................................................................. 1
Chapter 2 Overview of Artificial Intelligence
David O. Johnson...................................................................................................................................... 9
Chapter 3 Overview of Prominent Machine Learning and Data Mining Methods
with Example Applications to the Medical Domain
Christopher M. Gifford ......................................................................................................................... 29
Chapter 4 Introduction to Computational Intelligence Techniques and Areas
of Their Applications in Medicine
Ali Niknejad, Dobrila Petrovic................................................................................................................ 51
Chapter 5 Satisficing or the Right Information at the Right Time: Artificial Intelligence and Information Retrieval, a Comparative Study in Medicine and Law
Paul Thompson........................................................................................................................................ 71

Chapter 6 Soft Tissue Characterization Using Genetic Algorithm
Yongmin Zhong, Yashar Madjidi, Bijan Shirinzadeh, Julian Smith, Chengfan Gu.................. 79

Chapter 7 Investigation on Support Vector Machines and Wavelet Transform in Electroencephalogram Signal Classification
Clodoaldo A. M. Lima, Renata C. B. Madeo, Sarajane Marques Peres, March Einscraf... 95

Chapter 8 Building Naïve Bayes Classifiers with High-Dimensional and Small-Sized Data Sets
Lin Liu, Jiuyong Li .......................................................................................................................... 115

Chapter 9 Predicting Toxicity of Chemicals Computationally
Meenakshi Mishra, Jun Huan, Brian Potetz ............................................................ 137

Chapter 10 Cancer Prediction Methodology Using an Enhanced Artificial Neural Network-Based Classifier and Dominant Gene Expression
Manaswini Pradhan, Ranjit Kumar Sahu .............................................................. 151

Chapter 11 A System for Melanoma Diagnosis Based on Data Mining
Jerzy W. Grzymala-Busse, Zdzislaw S. Hippe, Lukasz Piatek .......................................................... 165

Chapter 12 Implementation and Optimization of a Method for Retinal Layer Extraction and Reconstruction in Optical Coherence Tomography Images
Marcos Ortega Hortas, Ana González López, Manuel Gonzalez Penedo, Pablo Charlón Cardeñoso .... 175

Chapter 13 Deep Learning for the Semiautomated Analysis of Pap Smears
Kriti Chakdar, Brian Potetz ........................................................................................................... 193

Chapter 14 A Penalized Fuzzy Clustering Algorithm with Its Application in Magnetic Resonance Image Segmentation
Wen-Liang Hung, Min-Shen Yang ......................................................................................... 215

Chapter 15 Uncertainty, Safety, and Performance: A Generalizable Approach to Risk-Based (Therapeutic) Decision Making
J. Geoffrey Chase, Balazs Benyo, Thomas Desaive, Liam Fisk, Jennifer L. Dickson, Sophie Penning, Matthew K. Signal, Attila Wyes, Noeimi Szabo-Nemedi, Geoffrey M. Shaxo..................................................... 233

Sylvia Tidwell Scheming, Wanda Larson, Jerome Scheuring, Thomas Harlan...................... 247

Chapter 17 Fuzzy Naïve Bayesian Approach for Medical Decision Support
Kavishwar B. Wagholikar, Ashok W. Deshpande ........................................................................ 267

Chapter 18 Approaches for Establishing Methodologies in Metabolomic Studies for Clinical Diagnostics
Daniel J. Peirano, Alexander A. Aksenov, Alberto Pasamontes, Cristina E. Davis ............. 279

Chapter 19 A Comparison of Seven Discretization Techniques Used for Rule Induction from Data on the Lazy Eye Vision Disorder
Patrick G. Clark, Jerzy W. Grzymala-Busse, Gerhard W. Cibis ................................................. 307
Chapter 20 A Crash Introduction to Ambient Assisted Living
Manuel Fernandez-Carmona, Cristina Urdiales .......................................................... 319

Chapter 21 Intelligent Light Therapy for Older Adults: Ambient Assisted Living
Joost van Hoof, Evelyne J. M. Wouters, Björn Schräder, Harold T. G. Weffers,
Mariëlle P. J. Aarts, Myriam B. C. Aries, Adriana C. Westerlaken .......................... 343

Chapter 22 Context Awareness for Medical Applications
Nathalie Briçon-Souf, Emmanuel Conchon ................................................................. 355

Chapter 23 Natural Language Processing in Medicine
Rui Zhang, Yan Wang, Genevieve B. Mellon ............................................................... 375

Chapter 24 Intelligent Personal Health Record
Gang Luo, Selena B. Thomas, Chunqiang Tang ......................................................... 397

Chapter 25 Application of Artificial Intelligence in Minimally Invasive Surgery
and Artificial Palpation
Siamak Najarian, Pedram Pahlavan ................................................................. 407

Chapter 26 Wearable Behavior Navigation Systems for First-aid Assistance
Eimei Ojama, Norifumi Watanabe, Naoji Shiroma, Takaslti Omori .......................... 415

Chapter 27 Artificial Intelligence Approaches for Drug Safety Surveillance
and Analysis
Mei Liu, Yong Hu, Michael E. Matheny, Lian Duan, Hua Xu ..................................... 431

Chapter 28 Artificial Intelligence Resources: Publications and Tools
Arvin Agah ..................................................................................................................... 453

Index ............................................................................................................................ 461