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Collana	Lecture Notes in Computer Science ; ; 1620
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Soggetti	Artificial intelligence - Medical applications Medicine - Decision making - Data processing
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Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.
Nota di contenuto	Keynote Lectures -- From Clinical Guidelines to Decision Support -- Artificial Intelligence for Building Learning Health Care Organizations -- Timing Is Everything: Temporal Reasoning and Temporal Data Maintenance in Medicine -- Machine Learning for Data Mining in Medicine -- Guidelines and Protocols -- Guidelines-Based Workflow Systems -- Enhancing Clinical Practice Guideline Compliance by Involving Physicians in the Decision Process -- Application of Therapeutic Protocols: A Tool to Manage Medical Knowledge -- Decision Support Systems, Knowledge-Based Systems, Cooperative Systems -- From Description to Decision: Towards a Decision Support Training System for MR Radiology of the Brain -- Internet-Based Decision-Support Server for Acute Abdominal Pain -- Multi-modal Reasoning in Diabetic Patient Management -- Experiences with Case-Based Reasoning Methods and Prototypes for Medical Knowledge-Based Systems -- Exploiting Social Reasoning of Open Multi-agent Systems to Enhance Cooperation in Hospitals -- Influence Diagrams for Neonatal Jaundice Management -- Electronic Drug Prescribing and Administration - Bedside Medical Decision Making -- Neonatal Ventilation Tutor (VIE-NVT), a Teaching Program for the Mechanical

Ventilation of Newborn Infants -- A Life-Cycle Based Authorisation Expert Database System -- A Decision-Support System for the Identification, Staging, and Functional Evaluation of Liver Diseases (HEPAScore) -- Model-Based Systems -- A Model-Based Approach for Learning to Identify Cardiac Arrhythmias -- A Model-Based System for Pacemaker Reprogramming -- Integrating Deep Biomedical Models into Medical Decision Support Systems: An Interval Constraint Approach -- Neural Networks, Causal Probabilistic Networks -- A Decision Theoretic Approach to Empirical Treatment of Bacteraemia Originating from the Urinary Tract -- An ECG Ischemic Detection System Based on Self-Organizing Maps and a Sigmoid Function Pre-processing Stage -- Neural Network Recognition of Otoneurological Vertigo Diseases with Comparison of Some Other Classification Methods -- A Comparison of Linear and Non-linear Classifiers for the Detection of Coronary Artery Disease in Stress-ECG -- The Case-Based Neural Network Model and Its Use in Medical Expert Systems -- Knowledge Representation -- A Medical Ontology Library That Integrates the UMLS Metathesaurus™ -- The Use of the UMLS Knowledge Sources for the Design of a Domain Specific Ontology: A Practical Experience in Blood Transfusion -- Representing Knowledge Levels in Clinical Guidelines -- Temporal Reasoning -- Intelligent Analysis of Clinical Time Series by Combining Structural Filtering and Temporal Abstractions -- Knowledge-Based Event Detection in Complex Time Series Data -- Abstracting Steady Qualitative Descriptions over Time from Noisy, High-Frequency Data -- Visualization Techniques for Time-Oriented, Skeletal Plans in Medical Therapy Planning -- Visualizing Temporal Clinical Data on the WWW -- Machine Learning -- Machine Learning in Stepwise Diagnostic Process -- Refinement of Neuro-psychological Tests for Dementia Screening in a Cross Cultural Population Using Machine Learning -- The Analysis of Head Injury Data Using Decision Tree Techniques -- Machine Learning for Survival Analysis: A Case Study on Recurrence of Prostate Cancer -- ICU Patient State Characterization Using Machine Learning in a Time Series Framework -- Diagnostic Rules of Increased Reliability for Critical Medical Applications -- Machine Learning Inspired Approaches to Combine Standard Medical Measures at an Intensive Care Unit? -- A Screening Technique for Prostate Cancer by Hair Chemical Analysis and Artificial Intelligence -- Natural Language Processing -- A Conversational Model for Health Promotion on the World Wide Web -- Types of Knowledge Required to Personalise Smoking Cessation Letters -- Small Is Beautiful — Compact Semantics for Medical Language Processing -- Speech Driven Natural Language Understanding for Hands-Busy Recording of Clinical Information -- Automatic Acquisition of Morphological Knowledge for Medical Language Processing -- Image Processing and Computer Aided Design -- A Multi-agent System for MRI Brain Segmentation -- Modelling Blood Vessels of the Eye with Parametric L-Systems Using Evolutionary Algorithms -- Animating Medical and Safety Knowledge -- Active Shape Models for Customised Prosthesis Design.
