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| Titolo | Artificial Intelligence in Medicine : 6th Conference in Artificial Intelligence in Medicine, Europe, AIME '97, Grenoble, France, March 23-26, 1997, Proceedings / / edited by Elpida Keravnou, Catherine Garbay, Robert Baud, Jeremy Wyatt |
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| ISBN | 3-540-68448-4 |
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| Descrizione fisica | 1 online resource (XIV, 534 p.) |
| Collana | Lecture Notes in Artificial Intelligence ; ; 1211 |
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| Soggetti | Medicine<br>Artificial intelligence<br>Medical informatics<br>Biomedicine, general<br>Artificial Intelligence<br>Health Informatics |
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| Note generali | Bibliographic Level Mode of Issuance: Monograph |
| Nota di contenuto | Robots as surgical assistants: Where we are, wither we are tending, and how to get there -- Intelligent image management in an integrated telemedicine services network -- AI technologies: Conditions for further impact -- Protocols for medical procedures and therapies: A provisional description of the PROforma language and tools -- Supporting tools for guideline development and dissemination -- A task-specific ontology for the application and critiquing of time-oriented clinical guidelines -- User-adapted multimedia explanations in a clinical guidelines consultation system -- Algorithm and care pathway: Clinical guidelines and healthcare processes -- Detecting very early stages of dementia from normal aging with Machine Learning methods -- Acquiring and validating background knowledge for machine learning using function decomposition -- Automated revision of expert rules for treating acute abdominal pain in children -- Evaluation of automatic and manual knowledge acquisition for |

cerebrospinal fluid (CSF) diagnosis -- Knowledge acquisition by the domain expert using the tool HEMATOOL -- Application of inductive logic programming for learning ECG waveforms -- Knowledge discovery from a breast cancer database -- An adaptive two-tier menu approach to support on-line entry of diagnoses -- Machine learning applied to diagnosis of sport injuries -- A theoretical framework for decision trees in uncertain domains: Application to medical data sets -- Developing a decision-theoretic network for a congenital heart disease -- A theory of medical diagnosis as hypothesis refinement -- A new approach to feature selection -- A heuristic approach to the multiple diagnoses problem -- Intelligent assistance for coronary heart disease diagnosis: A comparison study -- Diagnosis and monitoring of ulnar nerve lesions -- Hypothesist: A development environment for intelligent diagnostic systems -- The clinical spectrum of decision-support in oncology with a case report of a real world system -- A Case-Based Reasoning method for computer-assisted diagnosis in histopathology -- The validation of an expert system for diagnosis of acute myocardial infarction -- A causal-functional model applied to EMG diagnosis -- Learning Bayesian Networks by Genetic Algorithms: A case study in the prediction of survival in malignant skin melanoma -- A neuro-fuzzy-classifier for a knowledge-based glaucoma monitor -- A method for diagnosing in large medical expert systems based on causal probabilistic networks -- Dynamic decision making in stochastic partially observable medical domains: Ischemic heart disease example -- Self-learning fuzzy logic control in medicine -- Planning and scheduling patient tests in hospital laboratories -- Temporal Abstractions for diabetic patients management -- Temporal scenario recognition for intelligent patient monitoring -- Medical planning environment -- Strengthening argumentation in medical explanations by text plan revision -- An ontological analysis of surgical deeds -- Building medical dictionaries for patient encoding systems: A methodology -- A Semantics-based communication system for dysphasic subjects -- Multilingual decision-support for the diagnosis of acute abdominal pain: An European Concerted Action (COPERNICUS 555) -- Medical Concept systems, lexicons and Natural Language Generation -- Distributed plan construction and execution for medical image interpretation -- Improved identification of the human shoulder kinematics with muscle biological filters -- A society of goal-oriented agents for the analysis of living cells -- Methodology for the design of digital brain atlases -- Rule-based labeling of CT head image -- Characterisation of tumorous tissue in rat brain by in vitro magnetic resonance spectroscopy and Artificial Neural Networks -- An application of Machine Learning in the diagnosis of ischaemic heart disease -- Meta-level learning in a hybrid knowledge-based architecture -- A framework for building cooperating agents -- Adding knowledge to information retrieval systems in the World Wide Web -- Learning from data through the integration of qualitative models and fuzzy systems -- Case-based reasoning and statistics for discovering and forecasting of epidemics -- Knowledge refinement of an expert system using a symbolic-connectionist approach -- Integrated decision support: The DIADOQ computer-based patient record.

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| Sommario/riassunto | This book constitutes the refereed proceedings of the 6th Conference on Artificial Intelligence in Medicine Europe, AIME'97, held in Grenoble, France, in March 1997. The volume presents 33 revised full papers selected from a total of 82 submissions; also included are three invited presentations and 25 posters. The papers are organized in topical sections on protocols and guidelines, knowledge acquisition and learning, decision-support theories, diagnostic problem solving, |

probabilistic models and fuzzy logic, temporal reasoning and planning, natural language and terminology, image and signal processing, and hybrid and cooperative systems.