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Nota di contenuto	Title Page; Preface; EFMI STC 2013 Program Committee and Reviewers; Information on EFMI Working Groups; Contents; Invited Papers; Knowledge Representation and Management Enabling Intelligent Interoperability - Principles and Standards; Handling Intra-Cluster Correlation when Analyzing the Effects of Decision Support on Health Care Process Measures; Basics and Requirements for Medical Decision Support Systems; How Turing and Wolf Influenced My Decision Support Systems; Designing Prognostic Models by Reinforcing Linear Separation; Personalized Medicine and the Need for Decision Support Systems Analyzing the ""CareGap"": Assessing Gaps in Adherence to Clinical Guidelines in Adult Soft Tissue SarcomaA Novel Way of Integrating Rule-Based Knowledge into a Web Ontology Language Framework; Attitudes and Experience of Dutch General Practitioners Regarding Computerized Clinical Decision Support; A Comparison of English and French Approaches to Providing Patients Access to Summary Care Records: Scope, Consent, Cost; Global Quality Indicators for Primary

Care Electronic Patient Records; Knowledge Representation and Management  
 Structured Knowledge Acquisition for Defining Guideline-Compliant Pathways  
 Tempolenses with Variable Magnification for Sonic Representation of Medical Data. Application for Cardiac Signals; System for Selecting Relevant Information for Decision Support; Computational Cognitive Modeling for the Diagnosis of Specific Language Impairment; Entropy-Driven Decision Tree Building for Decision Support in Gastroenterology; Sharing and Reusing Multimedia Multilingual Educational Resources in Medicine; An Ontological Treatment of Clinical Prediction Rules Implementing the Alvarado Score  
 Simultaneously Authoring and Modeling Clinical Practice Guidelines: A Case Study in the Therapeutic Management of Type 2 Diabetes in France  
 Medical Decision Support Solutions; A Conceptual Framework for Automating the Operational and Strategic Decision-Making Process in the Health Care Delivery System; Supporting Drug Prescription Through Autocompletion; Physicians Perceptions of an Educational Support System Integrated into an Electronic Health Record; Project I-COP - Architecture of Software Tool for Decision Support in Oncology  
 Design and Implementation of the Standards-Based Personal Intelligent Self-Management System (PICS)  
 Prognostic Decision Support Using Symbolic Dynamics in CTG Monitoring; Rule-Based Healthcare-Associated Bloodstream Infection Classification and Surveillance System; Diagnostic Decision Support of Heart Rate Turbulence in Sleep Apnea Syndrome; Utilization of Ontology Look-Up Services in Information Retrieval for Biomedical Literature; A Proposed Novel Method for CHD Screening by Fetal Heart Murmur Detection Using Phonocardiography; DIOS - Database of Formalized Chemotherapeutic Regimens  
 Adverse Drug Event Prevention in Neonatal Care: A Rule-Based Approach

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## Sommario/riassunto

Ensuring patient safety and providing high-quality health services are the dominant challenges faced by healthcare systems around the world today. The sharing of advanced knowledge and best practice in diagnosis, therapy, process optimization and prevention are essential to achieve this goal; this includes enhanced networking socially and technologically as well as the inclusion of public health and social sciences. This book contains the proceedings of the 13th European Federation for Medical Informatics (EFMI) Special Topic Conference (STC), held in Prague, Czech Republic, in April 2013. The EFMI STC 2013 is Europe's leading forum for presenting the results of current scientific work in health informatics processes, systems and technologies this year. The title of this 13th conference is Data and Knowledge for Medical Decision Support, and the conference addresses this important field, linking traditional and translational medicine with natural sciences and technology with a view to the design, implementation and deployment of intelligent systems which will meet the expectations of developers and users such as health professionals and patients. Within this context, the authors included here address the important issues of knowledge representation and management, appropriate terminologies and ontologies, the development of reasoning engines, and the modeling and simulation of real systems for decision making. The hot topics of Big Data and Analytics also receive attention."

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