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Nota di contenuto	From Patient Data to Medical Ontologies -- Creating Topic Hierarchies for Large Medical Libraries -- Bridging an Asbru Protocol to an Existing Electronic Patient Record -- From Natural Language Descriptions in Clinical Guidelines to Relationships in an Ontology -- A Hybrid Methodology for Consumer-Oriented Healthcare Knowledge Acquisition -- Identifying Disease-Centric Subdomains in Very Large Medical

Ontologies: A Case-Study on Breast Cancer Concepts in SNOMED CT. Or: Finding 2500 Out of 300.000 -- Sharable Appropriateness Criteria in GLIF3 Using Standards and the Knowledge-Data Ontology Mapper -- Guideline Modeling and Tools -- Analysis of the GLARE and GPROVE Approaches to Clinical Guidelines -- Semantic Web-Based Modeling of Clinical Pathways Using the UML Activity Diagrams and OWL-S -- Extracting Qualitative Knowledge from Medical Guidelines for Clinical Decision-Support Systems -- Experiences in the Development of Electronic Care Plans for the Management of Comorbidities -- Challenges in Delivering Decision Support Systems: The MATE Experience -- Technical Solutions for Integrating Clinical Practice Guidelines with Electronic Patient Records -- Advanced Topics -- Towards a Possibility-Theoretic Approach to Uncertainty in Medical Data Interpretation for Text Generation -- Argumentation about Treatment Efficacy -- A Knowledge-Management Architecture to Integrate and to Share Medical and Clinical Data, Information, and Knowledge.

Sommario/riassunto

This bookis the resultof merging two workshopsseries,namely, oneon comp- erized guidelines and protocols and the other one on knowledge management for healthcareprocedures. Themergeresultedinthe KR4HCworkshop:Knowledge Representationfor HealthCare:Data,Processes,andGuidelines. This workshop was held in conjunction with the 12th Conference on Arti'cial Intelligence in Medicine (AIME 2009), in Verona, Italy. The book included, in addition to the full-length workshop papers, invited peer-reviewed advanced papers on lessons learned in these ?elds. The KR4HC workshop continued a line of successful guideline workshops held in 2000, 2004, 2006, 2007, and 2008. Following the success of the ?rst - ropean Workshop on Computerized Guidelines and Protocols held in Leipzig, Germany, in 2000, the Symposium on Computerized Guidelines and Protocols (CGP 2004) was organized in Prague, Czech Republic in 2004 to identify use cases for guideline-based applications in health care, computerized methods for supportingtheguidelinedevelopmentprocess, andpressingissuesandpromising approachesfordevelopingusableandmaintainablevehiclesforguidelinedel ivery. In 2006 an ECAI 2006 workshop at Riva del Garda, Italy, entitled "AI Te- niques in Health Care:Evidence-BasedGuidelinesand Protocols" wasorganized to bring together researchers from di'erent branches of arti'cial intelligence to examine cutting-edge approaches to guideline modeling and development and to consider how di'erent communities can cooperate to address the challenges of computer-based guideline development.