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Record Nr.	UNISA996465506703316
Titolo	XPS-99 : knowledge-based systems : survey and future directions : 5th biannual German Conference on Knowledge-Based Systems, Wurzburg, Germany, March 3-5, 1999 : proceedings / / Frank Puppe, editor
Pubbl/distr/stampa	Berlin : , : Springer, , [1999] ©1999
ISBN	3-540-49149-X
Edizione	[1st ed. 1999.]
Descrizione fisica	1 online resource (VIII, 236 p.)
Collana	Lecture Notes in Artificial Intelligence ; ; 1570
Disciplina	006.33
Soggetti	Expert systems (Computer science)
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Invited Papers -- Knowledge Engineering: Survey and Future Directions -- Knowledge-Based Diagnosis – Survey and Future Directions -- Knowledge-Based Configuration- Survey and Future Directions -- Case-Based Reasoning – Survey and Future Directions -- Technical Papers: Methods -- Meeting Re-use Requirements of Real-Life Diagnosis Applications -- Towards Reusable Intelligent Scheduling Software -- Organizational Memory: Knowledge Acquisition, Integration, and Retrieval Issues -- A Competence Knowledge Base System as Part of the Organizational Memory -- Practical Evaluation of an Organizational Memory Using the Goal-Question-Metric Technique -- On Texts, Cases, and Concepts -- Integrated Case-Based Neural Network Approach to Problem Solving -- Technical Papers: Applications -- PRO_PLANT -- WEkI A Knowledge Based System of Suva for the Assignment of Companies to Risk Related Groups -- Expert System Technology in Aircraft Fleet Management – The Development of SAREX -- Experiences with a Knowledge-Based Tutoring System for Student Education in Rheumatology -- Computer Assisted Editing of Genomic Sequences – Why and how We Evaluated a Prototype -- Experiences of Using a Computer-Aided Therapy Planning for Pediatric Oncology in Clinical Routine -- Experiences with Knowledge-Based Data Cleansing at the Epidemiological Cancer Registry of Lower-Saxony.
Sommario/riassunto	A special year like 1999 invites one to draw a balance of what has been

achieved in the roughly 30 years of research and development in knowledge based systems (still abbreviated as XPS following the older term "expert systems") and to take a look at th what the future may hold. For the 5 German conference on knowledge-based systems we therefore asked current and former speakers of the four working groups (FG's) in the subdivision of knowledge-based systems (FA 1.5) of the German association of Informatics (GI) to present a survey of and future prospects for their respective fields: knowledge engineering, diagnosis, configuration, and case-based reasoning. An additional 14 technical papers deal with current topics in knowledge-based systems with an equal emphasis on methods and applications. They are selected from more than 50 papers accepted in the 4 parallel workshops of XPS-99: a) Knowledge Management, Organizational Memory and Reuse, b) various fields of applications, c) the traditional PuK Workshop (planning and configuration), and d) the GWCBR (German workshop on case-based reasoning). The other papers presented at these workshops are not included in this volume but are available as internal reports of Würzburg university together with the exhibition guide that emphasizing tool support for building knowledge based systems.