

Preface

A special year like 1999 invites to draw a balance, what has been achieved in the roughly 30 years of research and development in knowledge based systems (abbreviated still as XPS for the older term “expert systems”) and an outlook on what the future may hold. For the 5th German conference on knowledge-based systems we therefore asked current and former speakers of the 4 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 and future prospects of their respective fields: knowledge engineering, diagnosis, configuration, and case-based reasoning.

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 emphasizing tool support for building knowledge based systems.

We are indebted to many people who helped to make the conference a success. First of all, I would like to thank the coordinators of the workshops Rudi Studer, Dieter Fensel, Jana Koehler, Erica Melis and Thomas Wetter and the members of the respective program committees for reviewing the papers. As there can be no conference without submissions we thank all authors – successful or not – for submitting to XPS-99. Thanks also go to the many people who helped organize the conference, in particular to Petra Braun and all the other members of my research group at Würzburg university. Finally, we thank Springer-Verlag and especially Alfred Hofmann for their support to produce these proceedings.

January 99

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XPS-99

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