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# Management and Processing of Complex Data Structures

Third Workshop on Information Systems  
and Artificial Intelligence

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# Preface

The third workshop on "Information Systems and Artificial Intelligence" took place at the FH Hamburg, February 28 - March 2, 1994. The contributors were invited by the organizing committee on the basis of their previous work concerning management and processing of complex data structures, which is the topic of this workshop.

After 'integration aspects', which was the topic of the first IS/KI workshop<sup>1</sup>, and 'modelling', which was the topic of the second IS/KI workshop<sup>2</sup>, the actual topic was chosen as one of the most interesting common research and development areas in the fields of databases, information systems, and artificial intelligence.

The broad scope of the papers in these proceedings shows the wide range of common interests. Most papers stress the demands for new or extended formalisms and their deductive capabilities, including an analysis of their – formal – properties for managing complex structures. Looking at the contributions it is hard to see the borderlines between the work in the research areas of databases, information systems, and artificial intelligence. With these proceedings we hope to contribute to the discussions in all of these areas showing common research interests.

The IS/KI-94 was jointly organized by the special interest groups 1.1.4 (Knowledge Representation), 2.5.1 (Databases), and 2.5.2 (Methods for Developing Information Systems and Their Application) of the GI e.V. (German Computer Science Society). We would like to thank those of our colleagues who helped to set up this workshop, and in particular the members of the organizing committee, D. Karagiannis (Vienna), G. Lausen (Mannheim), C.-R. Rollinger (Osnabrück), H. Schweppe (Berlin), R. Studer (Karlsruhe), and H. Thoma (Basel). Thanks go also to the people who helped in the local organization at the FH Hamburg and the MAZ GmbH Hamburg. Last but not least we owe an inestimable debt to all contributors and participants at IS/KI-94 for their good will and manifold assistance.

Hamburg, January 1994

Kai von Luck  
Heinz Marburger

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<sup>1</sup> D. Karagiannis (ed.): *Information Systems and Artificial Intelligence: Integration Aspects*. Lecture Notes in Computer Science Vol. 474, Springer, 1991.

<sup>2</sup> R. Studer (ed.): *Informationssysteme und Künstliche Intelligenz: Modellierung*. Informatik Fachberichte Band 303, Springer, 1992.

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