Koubarakis / Sellis / Frank

Spatio-Temporal Databases

The CHOROCHRONOS Approach

A summary of research carried out in the CHOROCHRONOS Project, established as an EC-funded Training and Mobility Research Network with the objective of studying the design, implementation, and application of spatio-temporal database management systems. The nine coherent chapters by leading research groups are written in a tutorial style, making the research contributions of the project accessible to a wider audience interested in spatio-temporal information processing. Following an introductory overview, the book presents chapters on ontologies for spatio-temporal databases, conceptual models, spatio-temporal models and languages, access methods and query processing, architectures and implementation of spatio-temporal DBMS, interactive spatio-temporal documents, and future perspectives.

This book is an introduction and source book for practitioners, graduate s- dents, and researchers interested in the state of the art and practice in spatiot- poral databases. It collects the most important and representative research c- ried out in the project CHOROCHRONOS and presents it in a uni?ed fashion. CHOROCHRONOS was a Training and Mobility Research Network funded by the European Commission with the objective to study the design, implemen- tion, and application of spatiotemporal database management systems. This book would never have been possible if it was not for the devoted work of many people. First and foremost, we would like to thank the authors of the nine chapters of this book for their hard work. We would also like to acknowledge the help of Christiane Bernard, our o?cer from the European Commission, who saw the project to its conclusion, working as hard as we did to make it a thorough success. The constructive comments and feedback of our reviewer Colette Roland (University of Paris-1) are also very much appreciated. Last, but not least, we would like to thank all the students and postdoctoral fellows who were trained during CHOROCHRONOS. We hope the time they spent at CHOROCHRONOS node institutions was rewarding and lots of fun! March 2003 Timos Sellis Manolis Koubarakis Andrew Frank, Vienna St´ ephane Grumbach Ralf Hartmut Guting ¨ Christian Jensen Nikos Lorentzos Yannis Manolopoulos Enrico Nardelli Barbara Pernici Babis Theodoulidis Nectaria Tryfona Hans-J¨ org Schek Michel Scholl Table of Contents 1 Introduction.



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