Contributors to this Issue

Elisa Bertino is Professor of Computer Science in the Department of Computer and Information Science of the University of Genova, Italy, where she heads the Database Systems Group. Until 1990, she was a researcher for the Italian National Research Council in Pisa, Italy, where she headed the Object-Oriented Systems Group. She has been a visiting researcher at the IBM Research Laboratory (now Almaden) in San Jose, at the Microelectronics and Computer Technology Corporation in Austin, Texas, at George Mason University. She has participated in several projects sponsored by the Italian National Research Council and the European Economic Communities. Her main research interests include object-oriented databases, distributed databases, multimedia databases, interoperability of heterogeneous systems, integration of artificial and database techniques.

Prof. Bertino is on the editorial board of the IEEE Transactions on Knowledge and Data Engineering and is an advisory editor for the Data & Knowledge Engineering journal. She is currently serving as Vice Program Chair for the 1994 IEEE Data Engineering Conference. She is a co-author of the forthcoming book *Object-Oriented Database Systems—Concepts and Architectures*, Addison-Wesley, 1993.

Yuri Breitbart is Professor of Computer Science at the University of Kentucky. He received his Ph.D. from the Israel Technological Institute (Technion) in Haifa. Professor Breitbart works in the area of transaction management. He has published extensively in the area of Multidatabase Transaction Management and serves on the editorial board of *Distributed and Parallel Databases International Journal*.

Dr. Omran A. Bukhres is currently a Visiting Associate Professor at the Indiana Center for Database Systems, Department of Computer Science at Purdue University. He received B.S., Indiana University, 1984; M.S., University of Dayton, 1986; Ph.D., North Dakota State University, 1990. Previously he was the Chairperson of Computer Science and Information Systems Department at Moorhead State University. Dr. Bukhres is an active researcher and a co-principle investigator of the InterBase project. He has written book chapters and journal and conference articles. His research interests are Transaction Management, Concurrency Control, and Recovery in Heterogeneous Distributed Database Systems. He is a member of ACM, IEEE, and SIGMOD/ACM. he is also a member of the Multimedia taskforce, 1992–1993.

Sharma Chakravarthy is an Associate Professor at the Computer and Information Systems Department at the University of Florida, Gainesville, since 1989. He is well-known for his work on semantic and multiple query optimization and active databases. His current interests include real-time transaction scheduling, distributed database allocation, heterogeneous and temporal databasess. He has widely lectured and given tutorials on active, real-time and heterogeneous databases in Europe, North America, and Asia. He has guest-edited the Data Engineering Bulletin on Active Databases and is the co-Program Chair for the 1994 RIDE (Research Directions in Data Enginerring) Workshop on Active Databases.

Prior to his current position, Dr. Chakravarthy was a Member of Technical Staff at Xerox Advanced Information Technology (XAIT) located in Cambridge, MA. Prior to becoming XAIT, it was the Research and Development group of Computer Corporation of America (CCA). At CCA/XAIT (1985–1988), Dr. Chakravarthy managed the HiPAC project on active databases towards its completion. While at CCA, Dr. Chakravarthy contributed to the PROBE project in which an object-oriented, extensible DBMS aimed at non-traditional applications was developed.

Dr. Chakravarthy received his Ph.D. in Computer Science from the University of Maryland, College Park, in 1985. His thesis was entitled, "Semantic Query Optimization in Deductive Databases." He also worked on the ZMOB and DAVID projects during his tenure at the University of Maryland.

Jiansan Chen is currently a Ph.D. candidate in Computer Science at Purdue University. He is in charge of the design and implementation

354 Contributors to this Issue

of the InterBase System. His research interests include multidatabase transaction management, distributed heterogeneous system integration, and system development.

Chen received his B.S. and M.S. degrees in Computer Engineering from Hefei University of Technology, China, and his M.S. degree in Computer Science from Purdue University. He is a student member of IEEE and ACM.

Ahmed K. Elmagarmid is a Professor of Computer Science at Purdue University. He received B.S., computer science, University of Dayton, 1977; M.S., computer and information science, Ohio State University, 1981; Ph.D., 1985.

Dr. Elmagarmid is the Editor-in-Chief of *Distributed and Parallel Databases: An International Journal.* He is Editor of *Information Sciences, IEEE Transactions on Computers,* and *IEEE Data Engineering Bulletin.* He is the Steering Committee Chair for the IEEE RIDE Workshop, Program Co-Chair for the 1993 IEEE Data Engineering Conference, and the General Co-Chair for the 1994 IEEE Data Engineering neering Conference.

Dr. Elmagarmid is the principle investigator of the InterBase project looking into the design and implementation of heterogeneous distributed databases. He is an IEEE Distinguished Lecturer and a senior member of the IEEE.

Shamkant Navathe is currently a Professor at the College of Computing, Georgia Institute of Technology, Atlanta. He is well-known for his work on database conversion, database design, database modeling, distributed database allocation, and database integration. He has worked with IBM and Siemens in their research divisions and has been a consultant to various companies, including Honeywell, Nixdorf, CCA, ADR, Digital, MCC, Equifax and Harris corporations. He was the Program Chairman of the 1985 ACM-SIGMOD International Conference on Management of Data in Austin, Texas; a Program Co-Chairman of PARBASE 90, Miami, FL; and a Program Co-Chairman for the Fifth IEEE International Symposium on Intelligent Control, Philadelphia, PA, Sept. 1990. He is an associate editor of ACM Computing Surveys and Data and Knowledge Engineering (North Holland) and is on the editorial board of Information Systems and Distributed and Parallel Databases. He is an author of the book, *Fundamentals of Database Systems*, with R. Elmasri (Benjamin Cummings, 1989). His current work addresses database integration, heterogeneous federated databases, object-oriented databases, the design of intelligent interfaces to dtabases, multi-media database management, and engineering databases. He is the editor of the series: "Database Systems and Applications" for Benjamin Cummings and has published the book, *Conceptual Database Design: An Entity-Relationshp Approach*, with Carlo Batini and Stefano Ceri in 1992.

Prior to his current position, Navathe was with the Database Systems Research and Development Center and was a Professor of Computer and Information Sciences at the University of Florida in Gainesville (1979–1990). He was on the faculty of New York University's Graduate School of Business Administration (1975–79) and a system engineer for IBM World Trade Corporation and Electronic Data Systems. Navathe received a B.E. in electrical communications engineering at the Indian Institute of Science, Bangalore, India, an M.S. from Ohio State University, and a Ph.D. from the University of Michigan (1976).

Avi Silberschatz received his Ph.D. in computer science from the State University of New York, Stony Brook, in 1976. He was employed as an Assistant Professor at University of Texas, Dallas, from 1976–1979. He joined the UT Austin faculty in 1980 and has been a full Professor since 1984. In addition to his academic position, Silberschatz serves as an NSF advisor. He is active in the field of databases and has served as conference chair and program committee member frequently.

Silberschatz holds the Anonymous Professorship in Computer Sciences #3 at UT Austin and is the recipient of the IEEE Outstanding Paper Award for "Capability Manager" (IEEE *Transactions on Software Engineering*). He is co-author of several textbooks and a member of IEEE and ACM.

356 Contributors to this Issue

Susan D. Urban received the B.S., M.S., and Ph.D. degrees in computer science in 1976, 1980, and 1987, respectively, from the University of Southwestern Louisiana, Lafayette. She is currently an Assistant Professor in the Department of Computer Science and Engineering at Arizona State University. She was previously an Assistant Professor at the University of Miami from 1987-1989. She recently served as the General Co-Chair of the 1993 IEEE Workshop on Research Issues in Data Engineering: Interoperability in Multidatabase Systems held in Vienna, Austria. Dr. Urban currently serves on the Editorial Board of IEEE Transactions on Knowledge and Data Engineering. She is also on the program committee of the IEEE Computer Society International Conference on Data Engineering. Her research interests include semantic and object-oriented data medeling, integrity constraints, active database systems, engineering databases, and semantic heterogeneity in heterogeneous database environments. Dr. Urban is a member of the Association for Computing Machinery, the IEEE Computer Society, and the Phi Kappa Phi Honor Society.

Whang-Kyu Whang received the B.S. degree from Seoul National University, Seoul, Korea, in 1976, majoring in electronics engineering. He received M.S. and Ph.D. degrees in electrical engineering from the University of Florida in 1987 and 1992, respectively. He is currently working at E.T.R.I in Korea. After graduation from the undergraduate school, he worked at A.D.D. as a researcher participating in microprocessor-based systems development. His current interests include federated database systems, multimedia systems, and objectoriented database systems.