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Brief bio:

Michael Freeston has almost forty years experience of academic and industrial Computer Science, specializing in database and knowledge base systems, and is best known in the international database community for his work on multi-dimensional indexing methods. He began his computing career as a programming assistant to Prof. Sir David Bates at Queens University, Belfast in 1967. He became a lecturer in Computer Science at Southampton University, UK in 1971, where he also managed a start-up database software company for several years. In 1985 he joined the European Computer-Industry Research Centre in Munich, Germany, where he developed his long-standing interest in database indexing techniques and their potential application to deductive database systems. He moved to the University of California at Santa Barbara in 1996 to work on the development of the Alexandria geo-referenced digital library. In 1998 he was appointed Professor of Information Science at Aberdeen University, Scotland, but retained a research link to the Alexandria project. He returned full-time to UCSB in 2002 to work on the successor to the Alexandria project, ADEPT until the close of this project in 2005.

Over the past twenty years he has been a frequent member of international program committees for database and digital library conferences and a reviewer for the US National Science Foundation, the European Commission, and journal publications.

Education:

1963 B.Sc. Physics, Leicester University, U.K..
1970 M.Sc. Atomic and Molecular Processes, Queens University, Belfast, N. Ireland, UK.
1997 Ph.D. Computer Science, Southampton University, U.K.

Appointments:

2002-5 Project Coordinator, Alexandria Digital Earth Prototype Project (ADEPT), University of California, Santa Barbara.
2002- Visiting Professor, Department of Electronics and Computer Science, University of Southampton, UK.
1998-2001 Professor of Information Science, University of Aberdeen, Scotland.
1998-2001 Research Associate, Alexandria Digital Library Project, University of California, Santa Barbara.
1996-1998 Research Specialist, Alexandria Digital Library Project, University of California, Santa Barbara.
1992-1996 Head of Technology Transfer and Integration, ECRC, Munich, Germany.
1992-1994 Visiting Professor, City University, London, U.K.
1990-1992 Head of Knowledge Bases Group, ECRC, Munich, Germany.
1985-1990 Research Scientist, European Computer-Industry Research Centre (ECRC), Munich, Germany.
1982-1985 Managing Director, Solent Information Management Systems Ltd.
1970-1985 Lecturer (Associate Professor) in Computer Science, University of Southampton, U.K.
1964-1967 Education Officer, U.K. Ministry of Overseas Development, Nairobi, Kenya.

Relevant publications:

T. R. Smith, D. Ancona, O. Buchel, M. Freeston, W. Heller, R. Nottrott, T. Tierney and A. Ushakov *The ADEPT Concept-based Digital Learning Environment*. 7th European Conference on Research and Advanced Technology for Digital Libraries (ECDL), August 2003, Trondheim, Norway.

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J. Frew, M. Freeston, N. Freitas, L. Hill, G. Janeé, K. Lovette, R. Nideffer, T. Smith, Qi Zheng: *The Alexandria Digital Library Architecture*. Int. J. on Digital Libraries 2(4): 259-268 (2000)

X. Cheng, R. Dolin, R. Kothuri, M. Neary, S. Prabhakar, D. Wu, D. Agrawal, A. El Abbadi, M. Freeston, A. Singh, T. Smith, J. Su. *Scalable Access within the Context of Digital Libraries*. Int. J. on Digital Libraries 1(4): 358-376 (1997).

M. Freeston. *On the Complexity of BV-tree Updates*. ESPRIT-NSF Workshop on Constraint Databases and their Applications, Delphi, Greece, January 1997. [Lecture Notes in Comp. Science No. 1191, Springer-Verlag, 1997].

J. Frew, M. Freeston, R. Kemp, J. Simpson, T. Smith, A. Wells, Qi Zheng. *The Alexandria Digital Library Testbed*. D-Lib Magazine, July/August 1996.
[<http://www.dlib.org/dlib/july96/alexandria/07frew.html>]

M. Freeston. *A General Solution of the n-dimensional B-tree Problem*. Proc. ACM SIGMOD Conf., San Jose, California, May 1995.

J. Bocca, M. Dahmen, M. Freeston. *MegaLog -- A Platform for Developing Knowledge Base Management Systems*. 3rd Russian Conference on Logic Programming and Automated Reasoning, St. Petersburg, Russia, July 1992.

M. Freeston. *Advances in the Design of the BANG File*. 3rd International Conference on Foundations of Data Organisation and Algorithms (FODO), Paris, June 1989. [Lecture Notes in Computer Science No. 367, Springer-Verlag, 1989].

M. Freeston. *The BANG file: a new kind of grid file*. Proc. ACM SIGMOD Conf., San Francisco, California, May 1987.