Abstract

Multimedia is a blend of two or more media such as text, sound, graphics, animation and video, to effectively converse ideas to the users and this could be in linear or non-linear form [7]. The application of multimedia technology to database and IT service management has improved enormously in recent times. Multimedia system is a distinctive application which is of time-critical in its use in the various areas of computing. The spatial, secular, storage, processing, recovery, grouping and management requirements of data vary momentarily from those that are applied for traditional data [2]. Therefore, the purpose of multimedia technology in database management system and in proper management of IT services to clients is to permit for an efficient way of performing these tasks in all its varied forms in an efficient form. A multimedia database management system affords an efficient storage and manoeuvring of multimedia technologies in all its diverse types. Database technology has offered means to store and recover high volumes of data in the various business domains [8]. Although, database systems have always been planned for the administration of alphanumeric data such as names and numbers, the basic nature of multimedia data are also considered and thus highlights the need for multimedia enhanced database management systems, and present the various obligations and issues required for developing such systems. The various areas of applications consist of, but not limited to digital libraries (text documents, images, sound, video etc), art and entertainment, content management, journalism etc [1]. For technology purposes, multimedia is a computer-based systems that apply associative relationships to allow the users
of such systems to navigate and retrieve various information that are stored in a location which could be a combination of text, sounds, graphics, video, and other media formats [12].

References

- Arjen P. De Vries, "Content and Multimedia database Management Systems"; Centre for Telematics and Information Technology (CTIT), The Netherlands
- Christos Faloutsos, "Indexing Multimedia Database"; Proceedings of the 1995 ACM SIGMOD International Conference on Management of Data, San Jose, California, May 22-25,
- Danail Dochev, Irena Koprinska and Radoslav Pavlov, "Multimedia Data Management - Characteristics and Requirements"; Institute of Information Technologies, 2000, 1113 Sofia
- Ji-Rong Wen, Qing Li, Wei-Ying Ma, Hong-jiang Zhang, "A Multi-paradigm Querying Approach for a Generic Multimedia Database Management System"; SIGMOD Record, Vol. 32, No. 1, March 2003
- Peter van Oosterom, "Spatial Access Methods Chapter in Geographical Information Systems Principles, Technical Issues, Management Issues, and Applications (edited)";
- Reshma Suvarna, K. Seluk Candan1, Huan Liu, Jong Wook Kim, "Structure based Mining of Hierarchical Media Data, Meta-Data, and Ontologies"; The 5th International
Workshop on Multimedia Data Mining (MDM/KDD2004)
- Robert Garcia and Oscar Celma, "Semantic Integration and Retrieval of Multimedia Metadata"; Proceedings of the 5th International Workshop on Knowledge Markup and Semantic Annotation (SemAnnot 2005) to be held with ISWC 2005, Galway, Ireland, 7 November 2005
- Sussane Boll, Wolfgang Klas and Amit Sheth, "Overview on using Metadata to Manage Multimedia Data"; Multimedia Data Management pages 1-24
- Walid G. Aref and Ihab F. Ilyas, "An extensible index for spatial database"; Proceedings of the 13th International Conference on Scientific and Statistical Database Management, July 18-20, 2001, George Mason University, Fairfax, Virginia, USA
- Yu Deng, "The Metadata Architecture for Data Management in Web-based Choropleth Maps"; Department of Computer Science, University of Maryland.

**Index Terms**

Computer Science
Multimedia

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Object-oriented.