Stavros Christodoulakis

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Education

Ph.D. in Computer Science from the Department of Computer Science, University of Toronto, 1981. Ph.D. Thesis Title: "Estimating Selectivities in Databases" (K.C. Sevcik supervisor).

M.Sc. in Computer and Information Sciences from Queen's University, Kingston, Ontario, 1977, M.Sc. Thesis Title: "IPRL: An Interactive Pattern Recognition Laboratory".

Diploma in Telecommunications from the Greek Army School of Telecommunication Officers, 1972.

Bachelor in Physics from the National University of Greece, Athens, Greece, 1971.

Research Interests

- Distributed Information Systems, P2P Systems, Service Oriented Architectures
- Multimedia Systems and applications, HCI
- Semantic Web, Web application design
- Requirements capturing, Information system design, software engineering

Academic Positions Held

1990-now Professor, Department of Electronic and Computer Engineering, Technical University of Crete

1990-1995 Acting Chairman and Chairman, Department of Electronic and Computer Engineering, Technical University of Crete

1990-1995 Governing Board, Technical University of Crete.

1992-1995 Adjunct Professor, Department Computer Science, University of Waterloo, Canada.

1989-1992 Professor, Department of Computer Science, University of Waterloo, Canada.

1988-1989 Associate Chairman and Chairman of Graduate Studies, Department of Computer Science, University of Waterloo, Canada.

1986-1989 Associate Professor with Tenure, Department of Computer Science, University of Waterloo, Canada.

1985-1986	Assistant Professor, Department of Computer Science, University of Waterloo, Canada.
1985-1987	Adjunct Assistant Professor, Department of Computer Science, University of Toronto, Canada.
1981-1985	Assistant Professor, Department of Computer Science, University of Toronto, Canada.
summer 1982	Adjunct Assistant Professor, Faculty of Management Studies, University of Toronto, Canada.

Scientific Positions and Boards

2002-2008	Scientific Board, Delos European Excellence Network on Digital Libraries.
2002-today	Board of Directors, Institute of Telecommunications, Technical University of Crete, Greece.
2002-2005	Scientific Board, National Documentary Center, National Research Council of Greece.
1995-1997	Board of Directors, Idomeneus European Excellence Network on Distributed Multimedia Information Systems.
1995-1997	Scientific Board, Institute of Language and Speech Processing, ministry of Research and Technology, Athens, Greece.
1994-1995	National Research Council of Greece.
1995-1995	Advisory Board, European Multimedia Forum.
1993-1995	Board of Directors, Lambraki Foundation.
1989-1990	Board of Directors, Institute of Computer Research (ICR), Ontario, Canada.

Distinctions

Professor Christodoulakis was recognized by NSERC (Natural Science and Engineering Research Council of Canada-the equivalent of NSF of the USA) as "*the top Canadian and perhaps world researcher in the field*" of real-time distributed multimedia information systems, and he was awarded the NSERC/TRIO Industrial Research Chair in this field (August 1990). The Chair was supported by NSERC, the University of Ottawa, the Telecommunications Research Institute of Ontario (TRIO), and a team of 10 major Canadian companies in the areas of data bases, multimedia information systems and telecommunications.

Professor Christodoulakis was also nominated for the position of the Dean in the Department of Information Systems and Education in the University of California Berkeley.

Honorary Award of the Region of Crete for the Organization of the Department of Electronic and Computer Engineers, Technical University of Crete

Publications

175. Christodoulakis, S., Foukarakis, M., Ragia, L., Uchiyama, H., Imai, T.:" Mobile

Picture Capturing for Semantic Pictorial Database Context Access, Browsing and Interaction", IEEE Multimedia, 2010, to appear.

174. Bikakis, N., Gioldasis, N., Tsinaraki, C., Christodoulakis, S.:"Querying XML Data with SPARQL", Proceedings DEXA 2009.

173. Christodoulakis, S., Foukarakis, M., Ragia, L., Uchiyama, H., Imai, T.:"Semantic Maps and Mobile Context Capturing for Picture Content Visualization and Management of Picture Databases, Proceedings ACM Mobile Ubiquitous Multimedia (MUM), Finland, 2009.

172. Ragia, L., Christodoulakis, S.: "A Model for Mobile Multimedia Capturing", Proceedings Second WSKS, 2009.

171. Christodoulakis, S., Foukarakis, M., Ragia, L., "Personalized Spatial Knowledge Management for Pictures using Ontologies and Semantic Maps", International Journal of Digital Culture and Electronic Tourism, 2009.

170. Makris, K., Gioldasis, N., Tsinaraki, C., Bikakis, N., Christodoulakis, S.: "Towards a Mediator Based on SPARQL", Proceedings Second WSKS, 2009.

169. Moumoutzis, N., Christoulakis, M., Arapi, P., Mylonakis, M., Christodoulakis, S.: "The IQTOOL Project: Developing a Quality Assurance Tool for Elearning, Proceedings of LOGOS Open Conference, Budapest, 2009.

168. Tsinaraki C., Christodoulakis S., "Semantic Multimedia Content Retrieval and Filtering", Chapter contribution for the Encyclopedia of Data Warehousing and Mining (Second Edition), Idea Group 2008.

167. Christodoulakis S., Foukarakis M., Ragia L., "Spatial Information Retrieval from Images using Ontologies and Semantic Maps", 1st World Summit on the Knowledge Society. 24-28 September 2008, Athens, Greece 2008, (Best Paper Award).

166. Ntousias A., Gioldasis N., Tsinaraki C., Papa M., Christodoulakis S., "Rich Metadata and Context Capturing through CIDOC/CRM and Mpeg-7 Interoperability", In the Proceedings of the ACM International Conference on Image and Video Retrieval (CIVR), Niagara Falls, Canada, July 7-9 2008.

165. Binding C., Brettlecker G., Catarci T., Christodoulakis S., Crecelius T., Jetter H., Gioldasis N., Kacimi M., Milano D., Ranaldi P., Reiterer H., Santucci G., Schek H., Schuldt H., Tudhope D., Weikum G., "DelosDLMS: Infrastructure and Services for Future Digital Library Systems", 2nd DELOS Conference On Digital Libraries, Tirrenia, Italy, December 2007.

164. Tsinaraki C. and Christodoulakis S.: "Support for Interoperability between OWL based and XML Schema based Applications", DELOS Conference, Tirrenia, Italy, December 2007.

163. Karanastasi A. and Christodoulakis S.: "Evaluating the OntoNL Framework: a Natural Language Interface Generator for Knowledge Repositories", DELOS Conference, Tirrenia, Italy, December 2007 .

162. Christodoulakis S., Foukarakis M. and Ragia L.: "SPIM: A DL System for Personalized Semantic SPatial Image Management", DELOS Conference, Tirrenia, Italy, December 2007.

161. Ntousias A., Gioldasis N., and Christodoulakis S.: "Semantic Interoperability Support between Cultural and Multimedia Environments", DELOS Conference, Tirrenia, Italy, December 2007.

160. Ntousias A., Gioldasis N., Tsinaraki C., and Christodoulakis S.: "Exploiting Cultural Heritage Documentation in Semantic Multimedia Annotations",
in the Proceedings of the 2nd IEEE International Workshop on Semantic Media

Adaptation and Personalization (SMAP 2007), London, UK, December 17-18, 2007.

159. A. Karanastasi, S. Christodoulakis:
"The OntoNL Semantic Relatedness Measure for OWL Ontologies",
in the Proceedings of the Second IEEE International Conference on Digital Information Management (IEEE ICDIM), 28-31 October 2007, Lyon, France.

158. Tsinaraki C., Christodoulakis S.:
"Interoperability of XML Schema Applications with OWL Domain Knowledge and Semantic Web Tools",
In the proceedings of the 6th International Conference on Ontologies, DataBases, and Applications of Semantics (ODBASE 2007), Vilamoura, Algarve, Portugal, November 27-29, 2007.

157. Tsinaraki C., Christodoulakis S.:
"Semantic Multimedia Content Retrieval and Filtering",
Chapter of the Encyclopedia of Data Warehousing and Mining (Second Edition), Idea Group, 2007.

156. Adistambha K., Doeller M., Tous R., Gruhne M., Sano M., Tsinaraki C., Christodoulakis S., Yoon K., Ritz C., Burnett I.:
"The MPEG-7 Query Format: A New Standard in Progress for Multimedia Query by Content",
In the proceedings of the IEEE ISCIT 07 Symposium, Sydney, Australia, 2007.

155. Garcia R., Tsinaraki C., Celma O., Christodoulakis S.:
"Multimedia Content Description using Semantic Web Languages",
Book chapter of the "Semantic multimedia and ontologies: theory and applications", Springer-Verlag .

154. Arapi P., Moumoutzis N., Mylonakis M., Theodorakis G., Stylianakis G.:
"Supporting Personalized Learning Experiences within the LOGOS Cross-Media Learning Platform",
In the proceedings of the Workshop on Cross-Media and Personalized Learning Applications on top of Digital Libraries (LADL2007) in conj. with ECDL2007 Conference, September 2007, Budapest, Hungary.

153 A. Karanastasi, S. Christodoulakis:
"Semantic Processing of Natural Language Queries in the OntoNL Framework",
in the Proceedings of the IEEE International Conference on Semantic Computing (IEEE ICSC), 17-19 September 2007, Irvine, CA.

152 Arapi P., Moumoutzis N., Mylonakis M., Theodorakis G., Christodoulakis S.:
"*A Pedagogy-driven Personalization Framework to Support Automatic Construction of Adaptive Learning Experiences*",
In the proceedings of the 6th International Conference on Web-based Learning (ICWL 2007), August 2007, Edinburgh, United Kingdom.

151 Arapi P., Moumoutzis N., Mylonakis M., Christodoulakis S.:
"*A Pedagogy-driven Personalization Framework to Support Adaptive Learning Experiences*",
In the proceedings of 7th IEEE International Conference on Advanced Learning Technologies (ICALT 2007), July 2007, Niigata, Japan.

150 A. Karanastasi, S. Christodoulakis:
"Ontology-Driven Semantic Ranking for Natural Language Disambiguation in the OntoNL Framework",
in the Proceedings of the 4th European Semantic Web Conference (ESWC), 3-7 June 2007, Innsbruck, Austria.

149 Chrisa Tsinaraki, Stavros Christodoulakis:

"An MPEG-7 Query Language and a User Preference Model that allow Semantic Retrieval and Filtering of Multimedia Content",
ACM-Springer Multimedia Systems Journal, in Special Issue on Semantic Multimedia Adaptation and Personalization, 2007

148 Horst Eidenberger, Susanne Boll, Stavros Christodoulakis, Doris Divotkey, Klaus Leopold, Alessandro Martin, Andrea Perego, Ansgar Scherp, Chrisa Tsinaraki:
"Towards Integrated Authoring, Annotation, Retrieval, Adaptation, Personalization and Delivery of Multimedia Content",
DELOS Conference Working Notes, Tirrenia, Italy, March 2007.

147 Chrisa Tsinaraki, Stavros Christodoulakis:
"*XS2OWL: A Formal Model and a System for enabling XML Schema Applications to interoperate with OWL-DL Domain Knowledge and Semantic Web Tools*",
DELOS Conference Working Notes, Tirrenia, Italy, March 2007.

146 Chrisa Tsinaraki, Stavros Christodoulakis:
"*The MPEG-7 Query Language (MP7QL)*",
Proposal for an MPEG-7 query language submitted in response to the ISO/IEC JTC1/SC29/WG11 N8220 (MP7QF), January 2007, Morocco.

145 Jacobs A., Ioannidis G.T., Chrisotdoulakis S., Moumoutzis N., Georgoulakis S., Papachristoudis Y.:
"*Automatic, Context-of-Capture Based, Categorization, Structure Detection and Segmentation of News Telecasts*",
DELOS Conference on Digital Libraries, 13-14 February 2007, Pisa, Italy.

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"*A Framework and an Architecture for Supporting Interoperability between Digital Libraries and eLearning Applications*",
In the proceedings of the DELOS Conference on Digital Libraries, February 2007, Tirrenia, Pisa, Italy.

143 A. Karanastasi, A. Zwtos, S. Christodoulakis:
"*The OntoNL Framework for Natural Language Interface Generation and a Domain-Specific Application*",
in the Proceedings of the DELOS Conference on Digital Libraries 2007, 13-14 February 2007, Tirrenia, Pisa, Italy.

142 Nikos Pappas, Fotis G. Kazasis, George Anestis, Nektarios Gioldasis, Stavros Christodoulakis:
"*A Knowledge Management Platform for Supporting Digital Business Ecosystems based on P2P and SOA technologies* ",
IEEE International Conference on Digital Ecosystems and Technologies, Feb. 2007 Cairns Australia.

141 Nektarios Gioldasis, Themistoklis Dakanalis, George Anestis, Nikos Pappas, Fotis Kazasis, Stavros Christodoulakis :
"*SSLE: A Language and an Interactive Editor for the Semantic Description of Services in MOF Architectures*", IEEE International Conference on Digital Ecosystems and Technologies, Feb. 2007 Cairns Australia.

140 Giorgos Kotopoulos, Fotis Kazasis, Stavros Christodoulakis :
"*Querying MOF Repositories: The Design and Implementation of the Query Metamodel Language (QML).*", IEEE International Conference on Digital Ecosystems and Technologies, Feb. 2007 Cairns Australia.

139 Tsinaraki C., Polydoros P., Christodoulakis S.:
"*Interoperability support between MPEG-7/21 and OWL in DS-MIRF*",
In Transactions on Knowledge and Data Engineering (IEEE-TKDE), Special

Issue on the Semantic Web Era, 2007.

138 Tsinaraki C., Polydoros P., Syntzanaki A., Martin A., Perego A., Christodoulakis S.:
"Semantic, Constraint & Preference Based Authoring of Multi-topic Multimedia Presentations", In the Journal of Digital Information Management (JDIM), December 2006.

137 Polydoros P., Tsinaraki C., Christodoulakis S.:
"GraphOnto: OWL-Based Ontology Management and Multimedia Annotation in the DS-MIRF Framework", In the Journal of Digital Information Management (JDIM), December 2006.

136 Tsinaraki C, Christodoulakis S.:
"*A User Preference Model and a Query Language that allow Semantic Retrieval and Filtering of Multimedia Content*",
In the proceedings of the Semantic Media Adaptation and Personalization Workshop (SMAP 2006), December 2006, Athens, Greece.

135 Karanastasi A., Zotos A., Christodoulakis S.:
"*User Interactions with Multimedia Repositories using Natural Language Interfaces - OntoNL: an Architectural Framework and its Implementation*",
In the Journal of Digital Information Management (JDIM), Volume4, Issue 4, December 2006.

134 Jacobs A., Ioannidis G.T., Larson M., Chrisotdoulakis S., Moumoutzis N.:
"*Automatic, Context-of-Capture Based, Categorization, Structure Detection and Segmentation of News Telecasts*",
Poster on the 10th European Conference on Research and Advanced Technology for Digital Libraries (ECDL 2006), September 2006, Alicante, Spain.

133 Christodoulakis S., Arapi P., Moumoutzis N., Mylonakis M., Patel M., Kapidakis S., Papatheodorou C., Arahova A., Vagiati B., Konsolaki H.:
"*Interoperability of eLearning Applications with Digital Libraries*",
Poster on the 10th European Conference on Research and Advanced Technology for Digital Libraries (ECDL 2006), September 2006, Alicante, Spain.

132 Arapi P., Moumoutzis N., Christodoulakis S.:
"*ASIDE: An Architecture for Supporting Interoperability between Digital Libraries and ELearning Applications*",
6th IEEE International Conference on Advanced Learning Technologies (ICALT 2006), July 2006, Kerkrade, The Netherlands.

131 Tsinaraki C., Polydoros P., Syntzanaki A., Martin A., Perego A., Christodoulakis S.:
"Semantic, Constraint & Preference Based Authoring of Multi-topic Multimedia Presentations",
In the proceedings of the Workshop on Multimedia Semantics 2006 (WMS 2006), pp. 5-13, 19-21 June 2006, Chania, Crete.

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"GraphOnto: OWL-Based Ontology Management and Multimedia Annotation in the DS-MIRF Framework",
In the proceedings of the Workshop on Multimedia Semantics 2006 (WMS 2006), pp. 14-24, 19-21 June 2006, Chania, Crete.

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" User Interactions with Multimedia Repositories using Natural Language Interfaces: an Architectural Framework and its Implementation",
in Proceedings of the Fourth Special Workshop on Multimedia Semantics -

WMS06, June 19-21, 2006.

128 Kalogerakis V., Christodoulakis S., Moumoutzis N.:
"Coupling Ontologies with Graphics Content for knowledge driven visualization"
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127. Jose Borbinha, Ching-Chih Chen, S. Christodoulakis:
"*Multimedia Contents and Management*",
International Journal on Digital Libraries, (IJDL), Springer, Jan 2006.

126. C. Tsinaraki, S. Christodoulakis:
"A Multimedia User Preference Model that Supports Semantics and its Application to MPEG 7/21", Proceedings of IEEE Multimedia Modeling 2006, Beijing, China, January 2006.

125. S. Christodoulakis, A. Karanastasi, J. Koehler, K. Biatov, T. Catarci, S. Kimani:
" *Natural Language and Speech Interfaces to Knowledge Repositories*",
Poster on the 9th European Conference on Research and Advanced Technology for Digital Libraries (ECDL 2005), September 2005, Vienna, Austria.

124. Rauber A., Christodoulakis S., Min Tjoa A.:
"Research and Advanced Technology for Digital Libraries",
Proceedings of the 9th European Conference on Digital Libraries (ECDL), Vienna, Austria 2005.

123. Christodoulakis S., Arapi P., Moumoutzis N., Patel M., Kapidakis S., Arahova A., Bountouri L.:
"Interoperability of eLearning Applications with Audiovisual Digital Libraries",
Poster on the 9th European Conference on Research and Advanced Technology for Digital Libraries (ECDL 2005), September 2005, Vienna, Austria.

122. A. Karanastasi, F. Kazasis, S. Christodoulakis:
"*A Natural Language Model and a System for Managing TV-Anytime Information in Mobile Environments*",
ACM-Verlag International Journal of Personal and Ubiquitous Computing, Volume4, 2005

121. C. Tsinaraki, P. Polydoros, F. Kazasis, S. Christodoulakis:
"*Ontology-based Semantic Indexing for MPEG-7 and TV-Anytime Audiovisual Content*",
Multimedia Tools and Applications Journal, special issue on Video Segmentation for Semantic Annotation and Transcoding, 26, 299-325, Aug. 2005.

120. C. Tsinaraki, S. Christodoulakis:
"*Semantic User Preference Descriptions in MPEG-7/21*",
In the Proceedings of HDMS 2005, Athens, Greece, August 2005.

119. Nektarios Moumoutzis, Panagiotis Kontogiannis, Christodoulakis S.:
"*The Design and Implementation of the Knowledge Pool in the CHIRON Project*",
In the Proceedings of the Joint KNOSOS - CHIRON Open Workshop: "e-Learning Solutions - On the Way to Ubiquitous Applications", 26 - 27 May 2005, Sandanski, Bulgaria, ISBN 954-91700-1-2 (pp. 81-91).

118. A. Karanastasi, S. Christodoulakis:
"*OntoNL: An Ontology-based Natural Language Interface Generator for Multimedia Repositories*", Proceedings of Workshop on AUDIO-VISUAL CONTENT AND INFORMATION VISUALIZATION IN DIGITAL LIBRARIES (AVIVDiLib'05), May 2005.

117. Arapi P., Moumoutzis N., Maragoudakis I., Christodoulakis S.:
"*Extending Existing eLearning Platforms to Support Automatic Conversion of Learning Content to SCORM*",
Proceedings of the Joint KNOSOS-CHIRON Workshop "e-Learning Solutions - On the Way to Ubiquitous Applications", May 2005, Sandanski, Bulgaria.

116. Arapi P., Moumoutzis N., Maragoudakis I., Christodoulakis S.:
"*The KNOSOS Project: A Distributed e-Learning Environment Using SCORM Model to Support Interoperability among Local Centres of Expertise*",
In the proceedings of the Hellenic Conference "New Technologies in Long-Life Learning", April 2005, Lamia, Greece.

115. Tsinaraki C., Polydoros P., Christodoulakis S.
"*GraphOnto: A Component and a User Interface for the Definition and Use of Ontologies in Multimedia Information Systems*", In the Proceedings of AVIVDiLib 2005, Cortona, Italy, April 2005.

114. S. Christodoulakis, F. Kazasis, G. Anestis, N. Moumoutzis:
"Intelligent Information Interactions for Tourism Destinations", chapter contribution for the book entitled "Global cultural tourism: cases and trends", Butterworth Heinemman/Elsevier, 2005.

113. Elisa Bertino, Stavros Christodoulakis, Dimitris Plexousakis, Vassilis Christophides, Manolis Koubarakis, Klemens B, Elena Ferrari (editors):
"Advances in Database Technology", EDBT 2004, 9th International Conference on Extending Database Technology, Heraklion, Crete, Greece, March 14-18, 2004

112. F. Kazasis, N. Gioldasis, N. Pappas, G. Anestis, S. Christodoulakis:
"*MOF-based Knowledge Management for a Digital Business Ecosystem*", 2nd IST Workshop on Metadata Management in Grid and P2P Systems (MMGPS): Models, Services and Architectures, December 2004.

111. Maria Frantzi, Nektarios Moumoutzis, Stavros Christodoulakis:
"*A Methodology for the Integration of SCORM with TV-Anytime for Achieving Interoperable Digital TV and e-Learning Applications*",
In the Proceedings of the International Conference on Advanced Learning Technologies (ICALT 2004), August 2004, Filand

110. Tsinaraki C., Polydoros P., Christodoulakis S.,
"*Interoperability support for Ontology-based Video Retrieval Applications*",
In the Proceedings of Conference on Image and Video Retrieval (CIVR) 2004, Dublin/Ireland, July 2004.

109. Nektarios Gioldasis, Nikos Pappas, Fotis Kazasis, George Anestis, Stavros Christodoulakis:
"*A P2P and SOA infrastructure for Distributed Ontology-Based Knowledge Management*",
In the Proceedings of the 1st Workshop of the DELOS II EU NoE on Digital Library Architectures, June 24-25 2004, Cagliari, Italy.

108. Tsinaraki C., Polydoros P., Christodoulakis S.,
"*Integration of OWL ontologies in MPEG-7 and TVAnytime compliant Semantic Indexing*",
In the proceedings of the 16th International Conference on Advanced Information Systems Engineering (CAiSE), Riga, Latvia, June 2004.

107. Karanastasi A., Kazasis F., Christodoulakis S.:
"*A Natural Language Model for Managing TV-Anytime Information in Mobile Environments*",
In Proceedings of the International Workshop on Ubiquitous Mobile Information and Collaboration Systems (UMICS), Riga, Latvia, 7 - 8 June, 2004

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106. Karanastasi A., Kazasis F., Christodoulakis S.:
"*A Natural Language Model and a System for Managing TV-Anytime Information from Mobile Devices*",
In Proceedings of the 9th International Conference on Applications of Natural Language to Information Systems (NLDB), Manchester, United Kingdom, June 2004 (Springer).

105. Tsinaraki C., Polydoros P., Christodoulakis S.,
"*Integration of OWL ontologies in MPEG-7 and TVAnytime compliant Semantic Indexing*",
In the proceedings of the 3rd HDMS, Athens, Greece, June 2004.

104. Tsinaraki C., Polydoros P., Moumoutzis N., Christodoulakis S.,
"*Coupling OWL with MPEG-7 and TV-Anytime for Domain-specific Multimedia Information Integration and Retrieval*",
In the Proceedings of RIAO 2004, April 2004, Avignon/France.

103. Gioldasis N., Moumoutzis N., Kazasis F., Pappas N., Christodoulakis S.:
"*A Service Oriented Architecture for Managing Operational Strategies*",
In the proceedings of the International Conference on Web Services (ICWS Europe '03), NetObjectDays, Germany, September 2003.

102. Tsinaraki Ch., Fatourou E., Christodoulakis S.:
"*An Interoperability Framework for the Management of Semantic Metadata in order to support Personalized TV Services*",
In the proceedings of the 2nd Hellenic Data Management Symposium (HDMS '03), Greece, September 2003.

101. Arapi P., Moumoutzis N. Christodoulakis S.:
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"*An Ontology-Driven Framework for the Management of Semantic Metadata Describing Audiovisual Information*",
In the proceedings of the 15th International Conference on Advanced Information Systems Engineering (CAiSE), Klagenfurt/Velden, Austria, June 2003.

99. F.G. Kazasis, N. Moumoutzis, N. Pappas, A. Karanastasi, S.Christodoulakis:
"*Designing Ubiquitous Personalized TV-Anytime Services*",
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98. Nikos Papas, Fotis Kazasis, Nektarios Moumoutzis, Crisa Tsinaraki,and Stavros Christodoulakis:
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International Workshop on Multimedia in Digital Libraries (MDL), Greece, June 2003.

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"*Intelligent Information Interactions for Tourism Destinations*",
In the proceedings of the Conference on Information and Communication Technologies in Tourism, ENTER 2003.

96. Nektarios Gioldasis, Stavros Christodoulakis:
"*UTML: Unified Transaction Modeling Language*",
In the Proceedings of the 2nd International Conference on Web Information

Systems Engineering (WISE 2002), Singapore, December 2002.

95. Nektarios Gioldasis, Stavros Christodoulakis and the UWA consortium: "*Ubiquitous Web Applications*", E-business and e-work 2002, Prague, Czech Rupublic.

94. Nektarios Gioldasis (supervised by Stavros Christodoulakis): "*UTML: Unified Transaction Modeling Language*", PhD workshop, 28th International Conference on Very Large Data Bases (VLDB 2002), August 2002, Hong Kong, China

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91. Tsinaraki C., Papadomanolakis S., Christodoulakis S.: "*Towards a two - layered Video Metadata Model*", DLib Workshop 2001 (in conjunction with DEXA '01), September 2001.

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89. N. Pappas and S. Christodoulakis: "*Design & Development of a Stream Service in a Heterogeneous Client Environment*", Very Large Data Bases (VLDB 2000) proceedings.

88. P. Triantafillou, S. Christodoulakis and C. Georgiadis: "*Optimal Data Placement on Disks: A Comprehensive solution for Different Disk Technologies*", IEEE Transactions on Knowledge and Data Engineering, 2000.

87. S. Christodoulakis and F. Zioga: "*Data Base Design Principles for Striping and Placement of Delay-Sensitive Data on Disks*", Proceedings of the 17th ACM SIGACT-SIGMOD-SIGART Symposium on Principles of Database Systems (PODS'98), Seattle, Washington, June 1988.

86. S. Christodoulakis, M. Anastasiadis, T. Margazas, N. Moumoutzis, P. Kontogiannis, G. Terezakis, C. Tsinaraki: "*A modular Approach to Support GIS Functionality in Tourism Applications*", Enter 98 Conference, Istanbul, 21-23 January 1998.

85. S. Christodoulakis, T. Margazas, N. Moumoutzis: "*Issues on Using Visual Media with Modern Interaction Devices*", Workshop in ACM CHI-98 Conference, Los Angeles, 1998.

84. C. Tsinaraki, G. Anestis, N. Moumoutzis, S. Christodoulakis: "*Implementing Powerful Retrieval Capabilities in a Distributed Environment for Libraries and Archives*", Research and Advanced Technology for Digital Libraries , 2nd European Conference on Digital Libraries, ECDL '98, Heraclion, Crete, Greece, September 1998, pp.653-654.

83. "*Tutorial on Multimedia Database Management*", CAISE' 1998.

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81. Tamer Ozsu & Stavros Christodoulakis: "*Indroduction to Multimedia Database Management*",

special issue on VLDB Journal, Decemeber 1998.

80. S. Christodoulakis, P. Triantafillou, F. Zioga:
"*Principles of Optimally Placing Data in Tertiary Storage Libraries*",
Proceedings of 23rd Very Large Data Bases Conference (VLDB), Athens,
Greece, 1997.

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"*Benchmarking and Performance Tuning of Multimedia Servers*", Proceedings
of Euro-Par'97 Conference, 26-29 August, 1997, Passaw Germany.

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C. Tsinaraki:
"*The KYDONIA Multimedia Information Server*", Proceedings of ECMAST 97
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"*MINOTAURUS: A Distributed Multimedia Tourism Information System*",
Information and Communication Technologies in Tourism 1997, Proceedings
of the International Conference in Edinburgh, Scotland (ENTER 97) (pp. 295-
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"*Multimedia Object Modeling*",
an Advanced Course in Multimedia Information Systems,
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"*A Software Bench for the Production of Multimedia Tourist Applications*",
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"*File Organizations with shared overflow Blocks for Variable Length Objects*",
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66. S. Christodoulakis:

"*A Multimedia Information Server*", Proceedings of IEEE CompCon 1993.

65. "*Multimedia Information Systems*",
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64. "*Multimedia Information Systems*",
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ACM Transactions on Information Systems (ACM TOIS), 10.1, Jan 92.

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Very Large Data Bases conference (VLDB) 91.

57. Y. Ioannidis and S. Christodoulakis:
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49. S. Christodoulakis:
"*Optical Disk Architectures and Multimedia Applications*",

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"*Performance Analysis of Index Sequential Files with Variable Length Records*",
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44. S. Christodoulakis and D. Ford:
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"*MINOS: An Optical Disk Based Server for Multimedia Object Management*",
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33. S. Christodoulakis:
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"*Estimating Block Selectivities*",
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9. Christodoulakis, S.:
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Information Systems, 8.2, June 1983, (pp. 105-115).

8. Tsichritzis, D. and Christodoulakis, S.:
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7. Christodoulakis, S.:
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IEEE Database Engineering (Invited: Special Issue in Query Optimization in Data Base Systems), 5.3, Sept. 1982, (pp. 48-51).

6. Carg, A., Christodoulakis, S., Gotlieb, C., and Magalhaes, G.:
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IEEE Database Engineering (Invited: Special Issue on Data Base Design), 5.1, March 1982, (pp. 42-48).

5. Christodoulakis, S., and Faloutsos, C.:
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4. Tsichritzis, D. and Christodoulakis, S.:
"*Message Files*", Proceedings of ACM SIGOA Conference on Office Information Systems, Philadelphia, Pennsylvania, June 1982, (pp. 110-112).

3. S. Christodoulakis:
"*A Statistical Model for Data Base Performance Evaluation*",
completely research material in Applied Probability and Computer Science: The Interface, Volume 2, Birkhauser p.c. (Disney and Ott editors), 1982, (pp. 15-33). (Selected after Proceedings of ORSA-TIMS Conference on Applied Probability and Computer Science: The Interface, Boca Raton, Florida, Jan. 1981)

2. Christodoulakis, S.:
"*IPRL: An Interactive Pattern Recognition Laboratory*", Proceedings of Eleventh ACM-SIGCSE Technical Symposium, Kansas, March 1980, (pp. 27-33).

1. Kulick, J., Challis, T., Brace, C., Christodoulakis, S., Merrit, I. and Neelands, P.:
"*An Image Processing Laboratory for Automated Screening of Chest X-rays*", Proceedings of IEEE Third International Conference on Pattern Recognition, Nov. 1975, (pp. 233-237).

Keynote Addresses

- "The future of Communication and Information Systems" National Innovation Center, Athens, 19/9/1997.
- "Multimedia Information Systems", Keynote Speech, Proceedings of ACM SIGIR, 1987.
- LATSIS SYMPOSIUM, Information and Communication Systems: State of the Art, Synergy and Future Directions, Zurich, Switzerland, 22-24 Sept., 1997.
- "Virtual Museums and Libraries", Invited by the EU, DGIII Industry, and presented at the European IT Conference, 1995.

Tutorials

- Tutorial on Multimedia Database Management, CAISE 1998.
- Tutorial on Multimedia Database Management ACM Multimedia Conference, 1998.
- Tutorial on High Performance Multimedia Systems, VLDB 1997.
- Tutorial on Multimedia Information Systems, EDBT 94.
- Tutorial on Multimedia Information Systems, CAISE 93.
- Tutorial on Multimedia Information Systems, ERCIM, Norway, 1993.
- Tutorial on Multimedia Information Systems, ECHT 92.

- Tutorial on Optical Disk Architectures and Multimedia Document Management, IEEE Database Engineering, 1990.
- Tutorial on Optical Disk Architectures and Multimedia Document Management, Hypertext 89.
- Tutorial on Optical Disk Architectures and Multimedia Document Management, ACM SIGIR 1989.
- Tutorial on Optical Disk Architectures and Multimedia Document Management for the participants of ACM SIGMOD 88, Chicago, half day (June 88).
- Tutorial on Office Automation for the participants of the ACM SIGMOD 87 San Francisco, California, half day, (June 87).
- One day Seminar to Partner and Affiliate Companies of the ICR, on Office Automation, at Hewlett-Packard, Toronto, 1987. (Partner and Affiliate Companies to ICR include among others BNR, IBM, NCR, Mitel, etc).
- One day Seminar to Partner and Affiliate Companies of the ICR, on Recent Advances in Text Database Access, at IBM, Toronto, 1986.
- Several Invited talks to Universities and Companies since 1981.

Panel and Session Presentations

Session Presentation:
  "*Survey of Selectivity Estimation for Query Optimization*", Query Optimization Workshop, San Francisco, California, 1989.
Panel organization and presentation:
  "*Multimedia Databases: Applications and Problems*", ACM SIGMOD 85.
Panel presentation:
  "*Multimedia Databases*", VLDB 84.
Session Presentation:
  "*State of the Art in Physical Data Base Design*", *workshop on Physical Database Design, Crete, Greece, 1984*.

Editorial Board in Scientific Journals

Member of the Editorial Boards at various times:

- ACM Transactions on Information Systems
- ACM-Verlag Multimedia Systems
- Information Systems, Pergamon
- Journal of UCS
- Distributed and Parallel Databases, Kluwer Publishers

Editor in Special Issues

- Special Issue on Multimedia Digital Libraries, International Journal on Digital Libraries, IJDL, Jan 2006
- International Journal on Digital Libraries Special Issue on Multimedia Content and Management, 2006
- VLDB Journal, Special Issue on Multimedia Data Management, 1998
- Information Systems, Special Issue on Multimedia Information Systems, 1995
- IEEE Computer, Special Issue on Multimedia Information Systems, Oct. 1991

Conference Steering Committees

- European Conference on Digital Libraries, ECDL, 2005 – 2006, 2008-today.
- Extending Database Technology, EDBT, 2004 - 2006

General Conference Chairman and Program Committee Chairman in Conferences

- Program Committee Co-Chair: WMS 2006, June 2006, Chania, Crete, Greece.
- Program Committee Co-chair: European Conference on Digital Libraries (ECDL), 2005.
- Program Committee Co-chair: Aviv Dlib, 2005.
- General Conference Chair, Conference on Extending Data Base Technology EDBT 2004.
- Program Committee Co-chair: Delos-WSF Workshop on Multimedia in Digital Libraries, 2003.
- General Chair: Delos-NSF Workshop on Multimedia in Digital Libraries, 2003.
- Associate Program Chair: ACM Multimedia, 2002
- European Program Committee Chairman in ICDE 2000, San Diego CA, 28-2-2000
- European Program Committee Chairman in ACM Multimedia 93, California
- General Program Committee Chair, VLDB 1992, Canada VLDB (Very Large Data Bases)
- European and NorthAmerican Program Committee Chair, ACM First International Conference on Multimedia Information Systems, Singapore 1991

Program Committee Memberships

- IDEAS 20009, ECDL 2009, INISTA 2009, ICDCS 2009, MTSR 2009, VSSM 2009
- ICDCS 2008, ECDL 2008,
- VLDB 2007, CIKM 2007, SAMP2007
- ACM CIKM 2006, ICPR 2006, ECDL 2006, ECIR 2006, EDBT 2006, UMICS 2006, VCM 2006
- ACM CIKM 2005, ECDL 2005, EDBT 2005, ICPR 2005, ICME 2005, HDMS 2005, IMSA 2005
- HDMS 2004, ICME 2004, ICPR 2004, IEE CIVR 2004
- HDMS 2003, SPIRE 2003, ECIR 2003, AI 2003
- AI-2002, ECIR 2002, IEEE ICDE 2002, VLDB 2002, EDBT 2002, DEXA 2002,
- ACM Multimedia 2002, MMCN 2002, HDMS 2002, ECDL 02
- EuroWeb 2001, ISTA 2001, ACM Multimedia 2001, DASFAA2001, DEXA 2001,[h] Panhellenic Conf. On Informatics, 8-10 November 2001, Nicosia Cyprus
- DEXA' 2000, VLDB'2000, Very Large Data Base Conference, Cairo, 1-14/9/2000
- DEXA'99, MIS'99, GVE'99,
- VLDB 98, MIT' 98 , MIS'98, DEXA'98, ACM SIGIR'98, ICDCS 98, VDBS98,

- • IEEE Multimedia Systems'98 Conference,
- • 4th IFIP 2.6 Working Conference on Visual Database Systems (VDB4),
- • CMS'97, DEXA '97, IEEE Multimedia Systems 97,
- • EDBT'96, CoopIS'96, MMSD-96, CIKM'96, IEEE Multimedia 96.
- • International Workshop on Networking and Operating System Support for Digital Audio and Video, 1995.
- • EDBT 95, EDBT94, VLDB 94, ECHT 94
- • MMIS'93, IEEE MMM'93, ACM Multimedia 93, Multimedia Information Systems 93,
- • International Workshop on Networking and Operating System Support for Digital Audio and Video, 1993, International Conference on Foundation of Data Organization & Algorithms, 1993.
- • ACM SIG Multimedia 1992,
- • 3rd International Workshop on Networking & Operating System Support for Digital Audio & Video , 1992.
- • VLDB 92, EDBT 92, IEEE Database Engineering 92.
- • VLDB 1991, ACM SIGMOD 1991, ACM SIGIR 1991
- • VLDB 1990, IFIP Conference on Office Information Systems, 1990
- • ACM SIGIR 89, Workshop on Geographic Data Bases, 89
- • ACM Conference on Document Processing 88 , ACM COOIS 88
- • ACM SIGMOD 1987, ACM SIGIR 1987, IEEE OFFICE AUTOMATION 1987
- • ACM SIGMOD 1986
- • ACM SIGMOD 1985, VLDB 1985

Research Projects Grants and Contracts

63 **Natural Europe, Natural History and Environmental Cultural Heritage in European Digital Libraries for Education**, FP7 program, Partners: GRNET, TNHM, JME, AC, NMHNL, RBI, NHMC, BARCO, HU, UBT, FIT, HNHM, Funding for MUSIC 250000 EU. Duration: 2010-2013.

62 **Organic MedNet: Developing The Skills of Organic Agriculture Trainers for the Mediterranean, Partners:** UAH, IFSAT, CUCUROVA, LEBENSMENISTIRIOUM, SEAE, ΔΗΩ. Funding for MUSIC 54900 EU. Duration: 2009, 2011.

61 **PSkills, Programming Skills Development in Secondary Education by Means of Modern Educational Programming languages, 7FP program, , Partners: COREP, GRNET, EA, BMUKK, MIKSIKE, NETING. Funding for MUSIC: 73790 EU. Duration: 2009, 2011.**

60 **iQTool**, Innovative eLearning Tool for Quality Training Meterial in VET. Partners: SZÁMALK Ltd., TISIP, TUC, SZTAKI, Research Institute for Vocational Training, CENFIM Funding for TUC/MUSIC: 77 KEuro. **Dec 2007 – Nov 2009**.

59 **LOGOS**, Knowledge-on-Demand for Ubiquitous Learning. Partners: ANTENNA Hungaria (HU), UNIVERSITY OF BRIGHTON (UK), TUC/MUSIC (GR), EDUWEB MULTIMEDIA Co. (HU), COREP (IT), EUROPEAN DISTANCE AND E- LEARNING NETWORK (UK), MAISON DES SCIENCES DE L'HOMME (FR), INSTITUTE OF MATHEMATICS AND INFORMATICS - BAS (BG), INSTITUT NATIONAL DE L'AUDIOVISUEL (FR), BUDAPEST UNIVERSITY OF TECHNOLOGY AND ECONOMICS (HU), UNIVERSITY OF MONTPELIER (FR), INSTITUTE OF INFORMATION TECHNOLOGIES – BAS (BG), UNIVERSITY OF ANGERS (FR), EXOS CONSULTING (SK), SOFIA DIGITAL (FI). Funding for MUSIC: 248,4 KEuro. **Feb 2006 – Jan 2009.**

58 **Support of Computer Science Studies / EPEAEK-II** in Department of Electronic and Computer Engineering, Technical University of Crete.

(Principal Investigator). Total funding: 888.778 Euro. **Jan 2003 – Aug 2006.**

Support of Information & Communication Technologies / EPEAEK-II in Department of Electronic and Computer Engineering, Technical University of Crete. Partners: -. Total funding: 153.028,65 Euro. **Jul 2004 – Sept 2005.**

57 **CHIRON** , New Media Knowledge Village for Innovative e-Learning Solutions. Partners: MUSIC/TUC (GR), ESCoM - MSH (FR), COREP (IT), Stockholm University - Department of Education (SW), MSC S.A. (GR), MTA SZTAKI(HU), EDUWEB MULTIMEDIA Technology and Distance Learning Co. (HU), ASDIS (BU), IMI - BAS (BU), EDEN (HU), funding for MUSIC: 60 KECU. **Oct 2004 – Sept 2006.**

56 **D.B.E., Digital Business Ecosystems**. Partners: MUSIC/TUC (GR), IBM (BE), LSE (UK), T6 scarl (IT), SUN (ES), FZI (DE), Imperial College London (UK), IESE Business School (ES), INTEL Ireland (IE), ISUFI (IT), STU (AT), 3vSOFT (IT), Tampere Technology Center (FI), Trinity College Dublin (IE), UBHAM (UK), University of Central England (UK), University of Surrey (UK), WIT (ES), funding for MUSIC: 506 KECU. **Nov 2003 – Oct 2006.**

55 **DELOS II, IST Network of Excellence in Digital Libraries**. Partners: MUSIC/TUC (GR), European Research Consortium for Informatics and Mathematics, Consiglio Nazionale delle Ricerche -ISTI, Swiss Federal Institut of Technology Zurich, University of Bath, University of Athens, Technical, University Degli Studi di Firenze, Fraunhofer-Gesellschaft zur F?rung der angewandten Forschung e.V., University of Glasgow, University Duisburg-Essen, Stichting Centrum voor Wiskunde en Informatica, Risoe National Library, Foundation for Research and Technology, Universit?egli Studi di Roma "La Sapienza", Brunel University, National Technical University of Athens, University Degli Studi di Padova, Universit?egli Studi di Milano, University for Health Informatics and Technology Tyrol, Max-Planck-Ges.z.F.d.W.vertr. d. MPI fuer Informatik, Kuratorium OFFIS e.V., Queen Mary & Westfield College, University of Strathclyde, Ionian University, Archive and Library Science Department, University Paris-Sud XI, University of Southampton, University of Edinburgh, Institute for Information Processing and Computer Supported New Media, Vienna University of Technology, Universit?i Urbino, Norwegian University of Science and Technology, Lund University, Institut National de Recherche en Informatique et en Automatique, Aristotelio Panepistimio Thessalinikis, National Archief, University Bremen, Phonogrammarchiv der Osterreichischen Akademie der Wissenchaften, University of Leeds, , Consorzio Forma, funding for MUSIC: 522 KECU. **Jan 2004 – Jan 2008.**

54 **KNOSOS**, New Media Knowledge Village for Innovative e-Learning Solutions. Partners: MUSIC/TUC (GR), Galanis Sports Data S.A. (GR), IIT-BAS (BG), Eurotelematica (BG), Balkan Multimedia Centre (BG), Maison des Sciences de l'Homme (FR), KURT Computer Systemhouse Co (HU), MTA SZTAKI(HU), funding for MUSIC: 117 KECU. **Dec 2002 – May 2005.**

53 **ADONIS**, Advanced on-the-job e-Training Solutions in e-Business for SMEs. Partners: MUSIC/TUC (GR), KURT (HU), SZTAKI (HU), IIT-BAS (BG), IMI-BAS (BG), FINSA Consulting (IT), MSC S.A. (GR), funding for MUSIC: 32 KECU. **Feb 2002 - Jan 2004**.

52 **UP-TV IST**: Ubiquitous Personalized Interactive Multimedia TV Systems and Services. Partners: MUSIC/TUC (GR), Universitat Paderborn (D), Bertelsmann Media Systems (D), Infonova (A), Pixelpark (D), Presse-

Programm-Service (D), Grundig AG (D), Hellenic Broadcasting Corporation – ERT (GR), Axcent Media AG (D), NV TV Limburg (B), Intracom (GR). Funding for MUSIC: 471 KEuro. **Dec 2000 – May 2003**

51 **UWA IST**: Ubiquitous Web Applications, Partners: MUSIC/TUC (GR), Atlantis S.p.A. (I), Siemens AG Oesterreich (A), Universita della Svizzera Italiana (CH), Punto Commercial Innovation y Servicios en Internet S.A. (E), Funcacion Robotiker (E), University College London (UK), Department of Information Systems, University of Linz (A), Banca 121 (I), Polytecnico di Milano (I). Funding for MUSIC: 135.6 KEuro. **Jan 2001 – Dec 2002**

50 **NET_QUALITY:** Networking, Multimedia and Quality of Tourism Information, a training project for small and medium Tourism Enterprises within Europe, Partners: MUSIC/TUC (GR), CII-Trentino, Italy, IGD_Germany, MAD-Portugal, IBIT-Spain, ERI-Napier University, U.K, funding for MUSIC: 50 KECU. **May 1999 – May 2001**

49 **TELEMATICS IDEALS** (Integration of Dedicated for Advanced Training Linked to Small and Medium Enterpises and Institutes of Higher Education), Partners: MUSIC/TUC (GR), Technical University of Darmastadt (D), Istituto Pedro Nunes (PT), Intracom (GR), funding for MUSIC/TUC: 60 KECU. **Jan 1994 – June 1996**

48 **ESPRIT WG SIMOS** (Supporting Multimedia On-Line Services Working Group), partners: MUSIC/TUC (GR), CNR-IEI (IT), Alacatel-Aar (FR), BIFOA (D), GMD-IPSI (D), Centrum voor Wiskunde en Informatica (NL), Intracom (GR), Olivetti (IT), Politechnico di Milano (IT), Universita di Lecce (IT), Vienna University of Technology (AU), funding for MUSIC/TUC: 20 KECU. **Sep 1996 – Aug 1999**

47 **ESPRIT Network of Excellence i3-Net**, partners: all the participants of the thirteen i3 projects.

46 **TEN-TELECOM Cretan TOURnet** (Integrated and Complete Support for the Tourism-Related SMEs of the Region of Crete through Interactive Media and Networks), partners: MUSIC/TUC, Multimedia Systems Center, Region of Crete, ANEK Lines, Commercial Chamber of Chania, Municipality of Chania. Funding for MUSIC/TUC: 15 KECU. **Jan 1998 – Jun 1999**

45 **ARCHIMED** Inco-Copernicus project "Advanced Multimedia System Architectures & Applications for Educational Telematics", Partners: TUC/MUSIC (Prime Contractor), CCG/UC (Portugal), MSH (France), CC-BAS (Bulgary), IIT-BAS (Bulgary), IMI-BAS (Bulgary), SZTAKI-HAS (Hungary), Computing Center-University of Vienna (Austria), duration: 1997-2000, funding for MUSIC/TUC: 83 KECU.

44 **CAMPIELLO i3 Esprit project** (Interacting in collaborative environments to promote and sustain the meeting between inhabitants and tourists", Partners: MUSIC/TUC, Consorzio Milano Ricerche (Italy), Domus Academy (Italy), Multimedia Systems Center (Greece), Municipality of Chania (GR) Rank Xerox Research Centre (France), duration: 1997-2000, funding for MUSIC/TUC:345,8 KECU.

43 **HyNoDe** (HyperMedia News On Demand), Prof. Christodoulakis is Technical Leader, Partners MUSIC, Intracom, COSI, Univ. of Darmstadt, Ethnoteam, McRLab, Radiocor, Imerissia, 150 KECU for MUSIC, duration: **1995-97.**

42 **HERMES**, ESPRIT Basic Research project,"Foundations of High Performance Multimedia Information Management Systems", MUSIC is the Prime Contractor,Professor Christodoulakis the Project leader, Partners GMD, ETH, MUSIC has 500 KECU for 1995-98.

41 **SICMA** (Scalable Interactive Continuous Media Servers Design and Application), duration: 36 months, 405 KECU for MUSIC, ACTS project, 1995-1998.

40 **VENIVA** (VENetian Virtual Archive), duration: 24 months, 70 KECU, ESPRIT project (1995 - 1997).

39 **MILLION** (Multimedia Interactive Leading Life giving Initiative On Net), duration: 24 months, 173 KECU, ESPRIT project (1995-1997).

38 **MILORD**, RACE-Telematics project for multimedia interaction with large object oriented databases (Hospital information systems for multimedia information based on multiprocessor servers, optical disks, etc). 1.300 KECU for MUSIC, 1992-1995.

37 **MULTIMEDIA** (Hellenic Action for Multimedia Information Systems), STRIDE project. MUSIC was the Prime Contractor and Prof. Stavros Christodoulakis the Technical Leader of the project. Total budget 2.000 KECU, MUSIC budget 500 KECU.

36 **MINERS**, ESPRIT project for multimedia publishing of ancient publications in new editions utilizing multimedia technology. 1992-1994. MUSIC budget: 250 KECU.

35 **HIFI**, ESPRIT project for multimedia interaction environments. Budget : 250 KECU, 1993-1994.

34 **MAGIC TOUR**, ESPRIT project. The project aims to derive multimedia support systems for tourism wholesalers and for smaller travel agencies utilizing multimedia technologies, GIS technologies and reservation system technologies. Duration:1994-1995. Budget: 45.000.000drs.

33 **MINOS**, ESPRIT project (Special Action for Greece). The project aims to derive multimedia information support to travel agents in order to present their review of the world to customers and facilitate their sales. Duration:1993-1995. Budget: 27.000.000 drs.

32 **IDOMENEUS**, ESPRIT project. It is a Network of Excellence for Distributed Multimedia Information Systems. Duration:1993-1995.

31 **MIRO**, ESPRIT project. It is a working group within the Basic Research of ESPRIT for multimedia information retrieval. Duration: 1993-1995. Budget: 5.670.000 drs.

30 **PRISONER**, HORIZON project. Multimedia training software on CDROMs have been produced for two applications: teaching English and teaching Electronics. Duration: 1992-93. Budget: 25.000.000 drs.

29 **ELOQUENT-LINGUA**. It is an educational research project that aims in using the existing equipment for the development of a multilingual self-training multimedia computer-based lesson. Duration: 1992-1994. Budget: 12.000.000 drs.

28 **IMAGINA**, ESPRIT project. Is a multimedia publishing project in the area of historical publishing (Macedonia). Duration: 1993-1995. Budget: 10.000.000 drs.

27 **DAIDALOS**, ESPRIT project. It is a research project that aims in exchanging scientific research results between Europe and USA in the area of multimedia systems and applications. Duration: 1993-1995. Budget: 13.500.000 drs.

26 **DEDICATED**, DELTA project. It is a multimedia training program in the area of CAD. Duration: 1992-1994. Budget: 34.000.000 drs.

25 **JANUS**, DELTA project. Joint Academic Network Using Satellite.

24 **LEADER 1**: Agricultural Tourism-Tourism Information System Promotion Development. Duration: 1994. Budget: 11.000.000 drs.

23 **PENED**: Multimedia Data Bases and Applications. Duration: 1994-1995. Budget: 8.000.000 drs.

22 **KIWIs** (Advanced Knowledge Based Environments for Large Data Bases), ESPRIT project, 800 KECU for the Technical University of Crete, from 1990 to 1992.

21 SPA program for development of advertising, tour planning and reservation multimedia system for Crete (66.000.000 Drachmas), 1991-93

20 NSERC Operating Grant for Multimedia Information Systems, from 1989 to 1991, at $50360 per year.

19 NSERC equipment grant for Multimedia Home Information Systems, $34000, 1989.

18 Principal Investigator for the Excellence Center proposal of the Universities of Toronto and Waterloo on Information Technology, 1987. Project Leader of the project on High Performance Multimedia Information Systems of the Information Technology Research Center (ITRC),$120000, for 1988-89.

17 BNR grant for real-time distributed multimedia information systems, 1989 ($20000).

16 SPAR aerospace research contract for engineering documentation systems for the Space Station, 1989 ($50000).

15 Waterloo President's grant for multimedia information systems, 1989, $24000.

14 BNR grant on multimedia information systems (training systems), 1988, $20000.

13 SPAR aerospace research contract on engineering documentation systems for the Space Station, 1988, $50000.

12 University of Waterloo President Grant, $30000, 1988.

11 BNR grant on multimedia information systems (training systems for the SL1 switch), 1987, $20000.

10 University of Waterloo President's grant for $20000, 1987.

9 Co-investigator in a Strategic Grant for An Office Procedure Manager (with D. Tsichritzis, A. Mendelzon, F. Lochovsky). The grant was for approximate $400000 from 1984 to 1987.

8 University of Waterloo President's grant for $5000, 1986.

7 Geac Inc grant for Optical Disk Systems, $10000, 1986.

6 ICR equipment grant for multimedia workstation architectures $26600, 1986.

5 ICR equipment grant for multimedia workstation architectures $29000, 1986 (declined due to acceptance of a grant from NSERC).

4 NSERC equipment grant for multimedia workstation architectures $29700, 1986.

3 NSERC Operating Grants for 1982, 1983, 1984, 1985, 1986, 1987, 1988.

2 University of Waterloo President's grant, $20000, 1985.

1 Joined the Strategic Grant on Message Management Systems from 1981 to 1984 (with D. Tsichritzis, F. Lochovsky, A. Mendelzon). The grant was for approximately three hundred fifty thousand dollars for three years and it was successfully completed.

Consulting

Consulting and Consulting Seminars to MCC, Bell and Howell, Bell Labs, Xerox (Palo Alto), Ashton-Tate, and other high tech US and European companies.

Supervision

Ph.D. Thesis Supervised

7. Tsinaraki C.:
"A Semantic Based Framework for Multimedia Management and Interoperability" Department of Electronic & Computer Engineering, Technical University of Crete 2008

6. Christos Tryfonopoulos:
"Peer-to_peer Techniques for Web Information Retrieval and Filtering", Technical university of Crete, Co-supervisor with Prof. Manolis Koubarakis, 2006.

5. C. Griwodz:
"Wide-area True Video-on Demand by a Decentralized Cache-based Distribution Infrastructure", Technical university of Darmstadt, Co-supervisor with Prof. Ralf Steinmetz, 2000.

4. D. Ford:
"Performance Optimizations in Optical Disk Architectures", Department of Computer Science, University of Waterloo, 1991. Currently manager at IBM Almaden Research Center.

3. G. Weddel:
"Physical Design and Query Optimization for a Semantic Data Model", Department of Computer Science, University of Toronto, 1977. Currently Professor at University of Waterloo.

2. Y. Manolopoulos:
"Performance Evaluation of File Organizations on Interactive and Batch Query Environments", University of Thessaloniki, 1986, (informal cosupervision during his visit in Toronto). Currently Professor, University of Thessaloniki.

1. C. Faloutsos:
"Signature Methods for Text Retrieval", Department of Computer Science, University of Toronto, 1986. Professor Faloutsos was awarded in 1989 the prestigious Presidential Young Investigator (PYI) award. Currently Professor, at Carnegie Mellon University.

M.Sc./M.Eng Thesis Supervised

44. Foukarakis Michalis:
"A System for Management of Spatial Information and Photographs with the

use of Sensors, Ontologies and Semantic Maps", MEng Thesis, Technical University of Crete, 2009.

43. **Anastasia Karanastasi:**
"ONTONL: An ontology-based natural language interface generator for knowledge repositories",
M.Eng. Thesis, Technical University of Crete, 2007

42. **Panayotis Polydoros:**
"Design and Implementation of GraphOnto. An Ontology management tool that can be used for creating semantic annotations for multimedia content based on MPEG-7",
M.Eng. Thesis, Technical University of Crete, 2007

41. **Stefanos Karasavidis:**
"Towards a methodology for web usage analysis of web applications",
M.Eng. Thesis, Technical University of Crete, 2004

40. **Nektarios Gioldasis**
"UTML: Unified Transaction Modeling Language"
M.Eng. Thesis, Technical University of Crete, 2002

39. **Giorgos Anestis**
"Design of Information System for Supporting Virtual Internet Communities"
M.Eng. Thesis, Technical University of Crete, 2001

38. **Theodoras Margazas**
"A System for Automatic Evaluation of User Interfaces"
M. Eng. Thesis, Technical University of Crete, 2000

37. **Georgia Kyriakaki:**
"*Services for Managing MPEG Information of Audiovisual Applications*"
M. Eng. Thesis, Technical University of Crete, March. 2000

36. **Chrisa Tsinaraki:**
"Information Provision on Demand by Heterogeneous Information Sources on the Internet"
M. Eng. Thesis, Technical University of Crete, Jan. 2000

35. **Nikos Pappas:**
"Supporting Multimedia Stream Services in Heterogeneous Client Environments"
.M.Eng. Thesis, Technical University of Crete, 1999.

34. **Fani Zioga:**
"Data Base Design Principles for Striping and Placement of Delay-Sensitive Data on Disks",
M.Eng. Thesis, Technical University of Crete, 1998.

33. **Theodora Magoulioti:**
"Performance Support and Benchmarking for Multimedia Applications in Kydonia Server"
M.Eng. Thesis, Technical University of Crete, 1998.

32. **Constantinos Georgiadis:**
"Analytical Performance Modeling and Optimization of Modern Disk Technologies"
M.Eng. Thesis, Technical University of Crete, 1997.

31. **Nektarios Moumoutzis:**
"Design of a System for the Development of Interactive Geographic Applications"
M.Eng. Thesis, Technical University of Crete, 1997.

30. **A. Servetas:**
"Mediabase: A Model and a System for the Design and Development of Structured Multimedia and Hypermedia Database Applications",

M.Eng. Thesis, Technical University of Crete, 1995.

29. **Costas Karanasios:**
"*Development and Implementation Model for computer-based Multimedia Learning Systems*",
M.Eng. Thesis, Technical University of Crete, 1995.

28. **Fotis Kazasis:**
"*A Multimedia Tourist Information Development Model*",
M.Eng. Thesis, Technical University of Crete, 1995.

27. **G. Kapetanakis:**
"*Document Creation and Retrieval in KYDONIA System*",
M.Eng. Thesis, Technical University of Crete, 1995.

26. **S. Argyropoulos:**
"*Supporting Multimedia Data and Storage Hierarchies in SM*",
M.Eng. Thesis, Technical University of Crete, 1994.

25. **Dimitris Anestopoulos:**
"*Supporting multi-level storage hierarchies in SM*",
M.Eng. Thesis, Technical University of Crete, 1993.

24. **A. Ailamaki:**
"*Dynamic Changes in OVM*",
M.Eng. Thesis, Technical University of Crete, 1993.

23. **M. Fragonikolakis:**
"*Object Interaction Mechanisms and the LOVM Language*",
M.Eng. Thesis, Technical University of Crete, 1993.

22. **Stephen Mok Chi Wing:**
"*Distributed database in the MINOS testbed*",
M.Math. Thesis, University of Waterloo, 1991.

21. **L. Koveos:**
"*Supporting Knowledge Based Applications in an Object Oriented Database*",
M.Math. Thesis, University of Waterloo, 1991.

20. **M. Sam Chee:**
"*Scheduling Algorithms for Data Retrieval from a Multimedia Server*",
M.Math. Thesis, University of Waterloo, 1991.

19. **T. Kwan:**
"*Protocols for data archival and retrieval in the MINOS distributed testbed*",
M.Math. Thesis, University of Waterloo, 1991.

18. **J. Gemmel:**
"*Delay Sensitive Data Retrieval: Data Base Design and Scheduling Algorithms*",

M.Math. Thesis, Department of Computer Science, University of Waterloo, 1990.

17. **D. Bradshaw:**
"*Scheduling and Buffer Management in the MINOS Distributed Testbed*",
M.Math. Thesis, Department of Computer Science, University of Waterloo, 1989.

16. **S. Potvin:**
"*Hypermedia Document-based Information Retrieval System*",
M.Math. Thesis, Department of Computer Science, University of Waterloo, 1989.

15. **K. Hatzilemonias**:
"*Performance Studies in Optical Disk Architectures*",
M.Math. Thesis, Department of Computer Science, University of Waterloo, 1989.

14. **K. Lam:**

"*Distributed Cache Management in MINOS*",
M.Math. Project, Department of Computer Science, 1989.

13. **M. Leitch:**
"*An Optical Disk Based Multimedia Object Server Supporting Distributed Cache Management*",
M.Math. Thesis, University of Waterloo, 1988.

12. **K. Elliot:**
"*The Client and the Query Processing Subsystem in the MINOS Distributed Testbed*",
M.Math. Thesis, University of Waterloo, 1988.

11. **S. Graham:**
"*Time Driven Multimedia Objects*",
M.Math. Thesis, University of Waterloo, 1988.

10. **R. Mayorga:**
"*A Query Evaluation Subsystem*",
M.Math. Project, University of Waterloo, 1988.

9. **E. Ledoux:**
"*Support for Document Organization, Placement, and Access in ODAS*",
M.Math. Thesis, University of Waterloo, 1988.

8. **R. Ng:**
"*Organization and Retrieval of Information in ODAS*",
M.Math. Thesis, University of Waterloo, 1988.

7. **T. Velissaropoulos**:
"*Design of a Distributed Testbed for MINOS*",
M.Math. Thesis, University of Waterloo, 1987.

6. **K. Elles:**
"*Perimeter Similarity Measures for Image Objects in a Multimedia Server*",
M.Sc. Thesis, Department of Computer Science, University of Toronto, Sept. 1986.

5. **C. Hartzman:**
"*Distributed Query Processing and Database Design*",
M.Sc. Project, Department of Computer Science, University of Toronto, 1985.

4. **M. Theodoridou**:
"*Multimedia Document Presentation and Formation in MINOS*",
M.Eng. Thesis, Department of Electrical Engineering, University of Toronto, 1985.

3. **D. Wilkes:**
"*Compression Techniques for Directly Addressed Files*",
M.Sc. Thesis, Department of Computer Science, University of Toronto, 1985.

2. **C. Bobrowski**:
"*Applications of Maximum Entropy Principle in Queueing Theory*",
M.Sc. Thesis, (co-supervised by K.C. Sevcik), Department of Computer Science, University of Toronto, 1983.

1. **C. Faloutsos:**
"*Extending the Functions of a Data Base Management System*",
M.Sc. Thesis, Department of Computer Science, University of Toronto, 1982.

Diploma Thesis Supervised

51. **Spachos Petros:**

"Development of a Syntactic Analyser for the Greek Language and information retrieval applications", Diploma Work, Department of Electronic and Computer Engineering, Technical University of Crete, Chania, 2008

50. **Ntousias Alexandros:**
"A System for Semantic Interoperability Between Cultural and Multimedia Applications"
Diploma Work, Department of Electronic and Computer Engineering, Technical University of Crete, Chania, 2008

49. **Stylianakis George:**
"Design and Development of a Repository for Educational, Learning and Evaluation objects based on the METS Digital Library Model",
Diploma Work, Department of Electronic and Computer Engineering, Technical University of Crete, Chania, 2008

48. **Christoulakis Marios:**
"Design and development of a distributed interoperable learning evaluation and questionnaire/survey system based on the IMS QTI V2.1 specifications",
Diploma Work, Department of Electronic and Computer Engineering, Technical University of Crete, Chania, 2008

47. **Theodorakis Goerge:**
"Design and Development of LEARNING DESIGN EDITOR: A Tool for managing abstract learning scenarios",
Diploma Work, Department of Electronic and Computer Engineering, Technical University of Crete, Chania, 2007

46. **Sitzanaki Athena:**
"Development of an MPEG-7 Metadata Repository and Retrieval support based on the MP7QL language",
Diploma Work, Department of Electronic and Computer Engineering, Technical University of Crete, Chania, 2007

45. **Alexandros Zwtos:**
"Software design and implementation for the OntoNL: An Ontology-based Natural Language Interface Generation Framework",
Diploma Work, Department of Electronic and Computer Engineering, Technical University of Crete, Chania, 2007.

44. **Kromidas Kostas:**
"Design and Implementation of Graphic Interfaces for Accessing MOF Knowledge Bases",
Diploma Work, Department of Electronic and Computer Engineering, Technical University of Crete, Chania, 2006.

43. **Alatzidis Xristos:**
"Design and Implementation of Graphic Interfaces for Accessing MOF Knowledge Bases",
Diploma Work, Department of Electronic and Computer Engineering, Technical University of Crete, Chania, 2006.

42. **Sarigiannis Xaralambos:**
"Design and implementation of a distributed questioner management system according to the IMS Global Consortium",
Diploma Work, Department of Electronic and Computer Engineering, Technical University of Crete, Chania, 2006.

41. **Vangelis Kalogerakis:**
"An Intelligent 3D Visualization System",
Diploma Work, Department of Electronic and Computer Engineering, Technical University of Crete, Chania, 2005.

40. **Xaralambos Darakis:**

"*Implementation and Enhancement of a Virual Community System the COMISM Model*",
Diploma Work, Department of Electronic and Computer Engineering, Technical University of Crete, Chania, 2005.

39. **Nikos Gianopoulos:**
"*Design and implementation of GRAMOFONE: A MOF-based graphical ontology management tool*",
Diploma Work, Department of Electronic and Computer Engineering, Technical University of Crete, Chania, 2005.

38. **Themistoklis Dakanalis:**
"*SSL EDITOR: A graphical tool for creating semantic service description models*",
Diploma Work, Department of Electronic and Computer Engineering, Technical University of Crete, Chania, 2005.

37. **Vangelis Kalogerakis:**
"*An Intelligent 3D Visualization System*",
Diploma Work, Department of Electronic and Computer Engineering, Technical University of Crete, Chania, 2005.

36. **Dimitris Alexopoulos:**
"Design and implementation of interoperability mechanisms for tourism services, compliant with ebXML and
Open Travel Alliance's specifications",
Diploma Work, Department of Electronic and Computer Engineering, Technical University of Crete, Chania, 2005.

35. **Giannis Samonakis:**
"Design and implementation of a system for the automatic generation of summaries for audiovisual content in
a digital TV environment",
Diploma Work, Department of Electronic and Computer Engineering, Technical University of Crete, Chania, 2004.

34. **George Kotopoulos:**
"*Filtering System of Digital TV-Anytime Program Content According to User Interests*",
Diploma Work, Department of Electronic and Computer Engineering, Technical University of Crete, Chania, 2003.

33. **Yannis-Aristotelis Kotopoulos:**
"*Automatic Creation and Adaptation of User Profiles in Digital TV-Anytime Environments*",
Diploma Work, Department of Electronic and Computer Engineering, Technical University of Crete, Chania, 2003.

32. **Maria Fratzi:**
"*A Methodology for Mapping Metadata between Digital TV (TV-Anytime) and e-Learning (SCORM) Standards for the Purpose of Interoperability of e-Learning Applications*",
Diploma Work, Department of Electronic and Computer Engineering, Technical University of Crete, Chania, 2003.

31. **Anastasia Karanastasi:**
"*Design and Implementation of a Natural Language Model for Managing TV-Anytime Information in Digital TV and Mobile Environments*",
Diploma Work, Department of Electronic and Computer Engineering, Technical University of Crete, Chania, 2003.

30. **Panayiotis Polydoros:**
"*Design and Implementation of a System for indexing and management of*

Digital TV content based on the segmentation metadata model TV-Anytime"
Diploma Work, Department of Electronic and Computer Engineering, Technical University of Crete, Chania, 2003.

29. **Lefteris Aggelou:**
"*Design and Implementation of a System for indexing and management of Digital TV content based on the segmentation metadata model TV-Anytime*"
Diploma Work, Department of Electronic and Computer Engineering, Technical University of Crete, Chania, 2003.

28. **Polyxeni Arapi**
"*Design and Implementation of Interoperability Mechanisms Using the SCORM Model in an e-Learning Environment*"
Diploma Thesis, Department of Electronic and Computer Engineering, Technical University of Crete, Chania, 2002

27. **Maria Kozyri**
"*Design and Implementation of a Tool for Supporting Web Transaction Design With UTML and Evaluation of the UTML in Designing Complex Web Applications*"
Diploma Thesis, Department of Electronic and Computer Engineering, Technical University of Crete, Chania, 2002

26. **Eleni Fatourou**
"*A Framework for Managing Semantic Metadata of Audio-Visual Metadata*"
Diploma Thesis, Department of Electronic and Computer Engineering, Technical University of Crete, Chania, 2002

25. **Stratos Papadomanolakis**
"*A System for Managing Metadata in a Digital TV Environment*"
Diploma Thesis, Department of Electronic and Computer Engineering, Technical University of Crete, Chania, 2001

24. **Dimosthenis Stellakis:**
"*Design and Implementation of an Distant Learning Environment on the Web*"
Diploma Thesis, Department of Electronic and Computer Engineering, Technical University of Crete, Chania, 2000.

23. **Spyros Magiatis:**
"*Design and Implementation of a system for the development of commercial sites*",
Diploma Thesis, Department of Electronic and Computer Engineering, Technical University of Crete, Chania, 2000.

22. **Konstantinos Horianopoulos:**
"*System for the development of personalized map applications for the Web*",
Diploma Thesis, Department of Electronic and Computer Engineering, Technical University of Crete, Chania, 1999.

21. **Stefanos Karasavidis:**
"*Design and Implementation of the Subsystems for Document Categorization, Document Search and User Profile Management in Customized News On Demand Systems*",
Diploma Thesis, Department of Electronic and Computer Engineering, Technical University of Crete, Chania, 1998.

20. **Lefteris Tsekouras:**
"*Design and Implementation of Label Placement Mechanisms in Map Studio Geographic Application Development Environment*",
Diploma Thesis, Department of Electronic and Computer Engineering,
Technical University of Crete, Chania, 1998.

19. **Michalis Petropoulos:**
"*Document Authoring and Presentation in a Custom News on Demand*

System",
Diploma Thesis, Department of Electronic and Computer Engineering, Technical University of Crete, Chania, 1998.

18. **Panagiotis Skondras:**
"Design and Implementation of push and pull services in a News on Demand system",
Diploma Thesis, Department of Electronic and Computer Engineering, Technical University of Crete, Chania, 1998.

17. **George Anestis:**
"Design and Implementation of a Boolean and Similarity Retrieval System on top of Relational Database Management Systems",
Diploma Thesis, Department of Electronic and Computer Engineering, Technical University of Crete, Chania, 1997.

16. **Vassilis Darlagiannis:**
"Design and Implementation of the stream, session and download service elements of the KYDONIA Multimedia server, based on the DAVIC standard",
Diploma Thesis, Department of Electronic and Computer Engineering, Technical University of Crete, Chania, 1997.

15. **Thanasis Kopanakis:**
"Design and Implementation of a System for Document Management and the Definition of Alternative Ways for Management and Presentation of Data Stored in Relational Databases",
Diploma Thesis, Department of Electronic and Computer Engineering, Technical University of Crete, Chania, 1997.

14. **Dimitris Lezos:**
"Development of a template application for the presentation of components based on OLE technology",
Diploma Thesis, Department of Electronic and Computer Engineering,
Technical University of Crete, Chania, 1997.

13. **Yiannis Atzarakis:**
"Modeling of Multimedia Data and Multimedia Representation Data Formats on a DAVIC-Compliant Object-Oriented Information Server",
Diploma Thesis, Department of Electronic and Computer Engineering,
Technical University of Crete, Chania, 1997.

12. **Aris Meletiou:**
"Modeling of Multimedia Data and Multimedia Representation Data Formats on a DAVIC-Compliant Object-Oriented Information Server",
Diploma Thesis, Department of Electronic and Computer Engineering,
Technical University of Crete, Chania, 1997.

11. **Georgios Terezakis:**
"Design and Implementation of a Navigation System for 3D Models",
Diploma Thesis, Department of Electronic and Computer Engineering,
Technical University of Crete, Chania, 1996.

10. **Panagiotis Kondogiannis:**
"Design and Implementation of a Mobile Multimedia Tourist Information System",
Diploma Thesis, Department of Electronic and Computer Engineering,
Technical University of Crete, Chania, 1996.

9. **Dimitris Petinos:**
"Design and Implementation of a System for Representing Interiors Using Synthetic Video",
Diploma Thesis, Department of Electronic and Computer Engineering,
Technical University of Crete, Chania, 1996.

8. **Giorgos Ninios:**
   "*Design and Implementation of the Index Manager, Catalogue Manager and Query Executor of the OODBMS KYDONIA*",
   Diploma Thesis, Department of Electronic and Computer Engineering, Technical University of Crete, Chania, 1996.

7. **Michalis Mpalantinos:**
   "*Design and Implementation of a Dialog Based System for Defining Presentation Methods for Multimedia Databases*",
   Diploma Thesis, Department of Electronic and Computer Engineering, Technical University of Crete, Chania, 1996.

6. **Chrisa Tsinaraki:**
   "*Design and Implementation of a Document and Link Representation System that Integrates Transparently the KYDONIA OODBMS and the World-Wide Web*",
   Diploma Thesis, Department of Electronic and Computer Engineering, Technical University of Crete, Chania, 1995.

5. **Yannis Mavraganis:**
   "*Design and Implementation of the Object and Session Management Subsystem in the Server of the OODBMS KYDONIA.*",
   Diploma Thesis, Department of Electronic and Computer Engineering, Technical University of Crete, Chania, 1995.

4. **Theodoros Margazas:**
   "*Design and Implementation of a Scripting Language for Interactive Applications*",
   Diploma Thesis, Department of Electronic and Computer Engineering, Technical University of Crete, Chania, 1995.

3. **Yannis Maragoudakis:**
   "*Design and Implementation of the client and the client-server communication subsystem   of the OODBMS KYDONIA*",
   Diploma Thesis, Department of Electronic and Computer Engineering, Technical University of Crete, Chania, 1995.

2. **Georgia Kyriakaki:**
   "*Design and Implementation of a Query Processing System for the OODBMS KYDONIA*",
   Diploma Thesis, Department of Electronic and Computer Engineering, Technical University of Crete, Chania, 1995.

1. **Manos Anastasiadis:**
   "*Design and Implementation of an Integrated Environment for Developing Geographic Applications*",
   Diploma Thesis, Department of Electronic and Computer Engineering, Technical University of Crete, Chania, 1995.

Courses, Teaching

Professor Christodoulakis has taught Data Bases and various other Computer Science courses at undergraduate level in the University of Toronto and Waterloo.

In the department of Electronic and Computer Engineering he has taught the majority of undergraduate courses of the Departments Curriculum in Informatics since the beginning of the Department, as well as several graduate courses. He currently teaches courses related to databases, development of web information

systems, web engineering, service oriented architectures and software engineering (requirements capturing and design).

Laboratories

Professor Christodoulakis has established a number of laboratories in the University of Toronto, Waterloo, and Technical University of Crete. In the Technical University of Crete he has established the Laboratories of Distributed Multimedia Information Systems and Applications (MUSIC) and the Laboratory of Software Technology and Network Applications. He has been directing the MUSIC laboratory since its establishment. The personnel and the graduate students of MUSIC have been responsible for teaching and pursuing research in virtually all the courses in computer engineering of the department for several years. It has established the first internet connection to the Technical University of Crete and supported the internet service of all the university for several years. MUSIC also attracted the first EU research projects to the Technical University of Crete, and since then it participated in more than 40 EU projects and Excellence Networks, in several of them as Prime Contractor or Technical Leader. Through them the laboratory has cooperated with hundreds of European companies, including the largest IT companies in Europe.

Evaluation Committee Participation

- Evaluated Departments of Computer Science and Electrical and Computer Engineering in Greece, Europe and USA.
- Member of Several Committees and selection of Institute Directors, Department Chairman Selection of Chair Positions, Promotions to Full Professor and PYI awards, internationally.
- EEC Evaluator for selection of projects in multimedia tourism, transport, etc. 1999-2005.
- EEC Evaluator for the project PEGASUS II, 1997-99
- EEC Evaluator for the project SYNTAMMA, 1994-97.
- Evaluator of the ESPRIT project HYTEA, 1991-93.
- Invited to evaluate ESPRIT and Telematics proposals in the 1992 EEC calls.
- Invited to evaluate the progress of current projects in office automation within ESPRIT in July 1985.
- Evaluation of the first European ESPRIT project, 1983

Visiting Positions

- Visiting Researcher at the Computer Research Institute of Crete, summer 1986.
- Visiting Professor at Universite Paris Sud (Laboratoire ISEM) and INRIA, summer 1985.
- Visiting Professor at the University of Crete, summer 1984.
- Formally invited as Visiting Associate Professor by the Governing Committee of the University of Crete (Chairman Professor Grigorios Sifakis, University of Thessaloniki) to participate in the organization of the Department of Computer Science and the Computer Center in Summer 1983.