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1. CONTACT

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2. STUDIES

[1] Diploma of Electrical Engineering, National Technical University of Athens (NTUA), Febr. 1984. Thesis: "Graph-Theoretic structure for the Construction of Low Complexity Codes".

[2] Ph.D. diploma in Spectral Analysis / Digital Signal Processing, 1989, NTUA, Computer Science Division, Electrical Engineering Dept.

Dissertation : "High Resolution Spectral Analysis Methods" (theoretical analysis of high resolution spectral estimation methods giving innovative results in the fields of frequency measurement, model order estimation and retrieval of signals from noise).

[3] M.Sc. diploma in the Post-graduate Programme of "History and Philosophy of the Sciences and the Technology", Febr. 2001.

3. MEMBER OF SCIENTIFIC SOCIETIES.

TEE (Technical Chamber of Greece) since 1984.

4. PROFESSIONAL AND RESEARCH EXPERIENCE.

[1] Evaluator of proposals of 'Digital Convergence' Research Programme. Evaluations of proposals of 'Culture-Athleticism' (2011).

[2] Head of the Research and Development Projects Office of 'Athena' Research Center (2008-2010).

[3] Research work in the Institute for Language and Speech Processing (ILSP / Athena R.C.). Proposal submission in the frame of national and European Programmes. Research on Speech enhancement techniques based on either Spectral Subtraction (through an estimate of the noise spectrum) or Singular Value Decomposition (SVD) (through the selective retrieval of a certain number of singular values). Research on Spectral analysis of various kinds of noise. Development of an isolated words recognition module based on HMM (Hidden Markov Model). Detection of silence in respiration and snoring signals. Development of an educational signal processing and spectral analysis software package containing the most contemporary techniques. Development of educational interactive multimedia CD's for the education of High School pupils. Working environment : ILSP / R.C. "Athena" (5/1992 until 9/2009).

[4] Design and implementation of multimedia (images / texts / sounds) data base management systems / digital libraries for the following applications : massive document storage

- (filing systems) , museum organisation, memo system for the storage, access and management of speech messages management system etc. Design and implementation of a database system for the management of bibliographic records of the National Library of Greece. Working environment : R&D Dept. of Ideatech S.A. (2/1991 – 12/1997).
- [5] Image analysis of documents for optical character recognition. Speech analysis and compression. Font analysis for personalized printing. Working environment : R&D Dept. of Noesis Ltd. (1/1987 - 2/1991).
- [6] Design and implementation of customised data base management systems for the storage of clients or products information of commercial / industrial companies (1985 – 1990).

5. RESEARCH PROJECT PARTICIPATION.

- [1] Project: Crosscult, Framework: Horizon2020 Reflective 6-2015. Duration: 2016-18. Description: Empowering reuse of digital cultural heritage in context-aware crosscuts of European history". 11 partners with coordinator: Luxembourg Institute of Science and Technology. TEI-A contribution: Development of an ontology for the description of museum objects. Evaluation of navigation scenarios in archeological areas and museums. Project dissemination.
- [2] Project: Development of Digital Services of Library of TEI-A. National framework: Digital Convergence. Duration: 2011-13. Responsible of the actions: Digitisation of content of existing files, Adaptation of ontology in OWL and connection to DSpace. Working environment: TEI-A. Working environment: Dept. of Library Studies and Information Systems of TEI of Athens.
- [3] Project: Work experience of the students of TEI-A. National framework: Education and lifelong learning. Duration: 2011-12. Actions: Design and implementation of website for the project, Supervising of work experience of students of TEI-A. Working environment: TEI-A.
- [4] Project: Curriculum reform of the Dept of Library Studies and Information Systems of TEI-A. National framework: EPEAEK (EKT / ETPA). Duration: 2003-2005. He had the scientific and financial management for the equipment part of the project (ETPA). He also worked at (1) reformation of the curriculum, (2) development of informatics laboratories, (3) creation of a digital library of the Dept, (4) Pilot application of the new curriculum, (5) Evaluation of the new curriculum. Working environment : Dept. of Library Studies and Information Systems of TEI of Athens.
- [5] Project: Introduction of Business Actions, Innovative Applications and Selective Lessons. National framework: EPEAEK. Duration: 2003-2005. He was involved in the introduction of optional selective lessons focused on business, innovation and management of a company and also in the development of Case Studies. Working environment : Dept. of Library Studies and Information Systems of TEI of Athens.
- [6] Project “MUSTUTOR” in the framework of the EU Programme “ESPRIT”. From Oct.1997 until June 1999 he worked at a project aiming at the development of an interactive multimedia music tuition system for training of the recorder. The work of ILSP dealt with (1) speech / audio recognition, (2) optical recognition of the musical notation (notes, durations, treble clefs etc) of musical pieces for the automatic conversion of written musical pieces to equivalent MIDI files and (3) design and development of an environment of musical exercises. Working environment : Speech Dept. of ILSP.
- [7] Project “TOSAFES” in the framework of the EU Programme “TIDE”. From Jan.1997 until Feb.1998 he had the scientific and financial management for ILSP at a medical project aiming at the prediction or detection of the phenomenon of Obstructive Sleep Apnea (OSA). This work was based on spectral analysis and event detection applied to respiration and snoring signals. Working environment : Speech Dept. of ILSP.

- [8] Project "FREETEL" in the framework of the EU Programme "ESPRIT". From May 1992 until Dec. 1994 he worked at a speech project aiming at noise elimination and echo cancellation in the environment of handsfree telecommunications. Working environment : Speech Dept. of ILSP.
- [9] Project "IDEO-IMAGE" in the framework of the Programme "MOPPIT". In the period 1992 - 1994 he worked at a multimedia project resulted in the production of an innovative multimedia system (multimedia library) for the representation, access and management of texts, images and sounds. Working environment: R&D Dept. of Ideatech S.A.

6. INSTRUCTIVE EXPERIENCE.

[1] Professor from Sept. 2006, Associate Professor from Febr. 2003 until Aug. 2006, Assistant Professor from Mar. 1998 until Jan. 2003, in the Dept. of Librarianship and Information Systems of TEI of Athens. Teaching lessons of Information Technology, Communications and Networks, Information Systems and Databases, History & Philosophy of Sciences.

[2] Supervisor of various theses of students in the Dept. of Librarianship and Information Systems of TEI of Athens from 1998 until now.

[3] Instruction of the Lesson 'Information Systems' at the Post-Graduate Programme 'Computer Science – Management and Organisation of Libraries focused on the New Technologies of Information' organized by Dept of Library Studies of Ionion University and Dept. of Librarianship and Information Systems of TEI of Athens. Working environment: Dept. of Library Studies and Information Systems of TEI of Athens, in the winter semesters of 2003-4, 2004-5 and 2006-7.

[4] Adult education of High-School teachers in the Centre of Support of Adult-Education of ILSP in topics of Introduction to Computer Technology, Microsoft Office Packages and educational packages. Working environment : ILSP. Duration : 3/2003 – 5/2003.

[5] Instruction of the lesson 'Programming Principles – Databases' at the Post-Graduate Programme 'Technoglossia' organised by University of Athens and NTUA in the winter semester of 2003-4 (Technoglossia II), the winter semester of 2004-5 (Technoglossia III), the winter semester of 2006-7 (Technoglossia IV), the winter semester of 2008-9 (Technoglossia V), the winter semester of 2010-11 (Technoglossia VI), the winter semester of 2011-12 (Technoglossia VII), the winter semester of 2012-13 (Technoglossia VIII)

[6] Instruction of computer science lessons at various departments of TEI of Athens from 1991 until Mar.1998.

[7] Development and presentation of two instructive program packets, the one for the lesson "Signals and Systems" and the other for the lesson "Digital Signal Processing" at the Computer Science Division of NTUA (winter semesters 1987, 1988).

[8] Assistance in the instruction of the following lessons at the Computer Science Division of NTUA : Computer Programming with Fortran (winter semester 1984), Digital Signal Processing (winter semesters 1986, 1987, 1988).

7. PUBLICATIONS.

7.1. Monographs

- [1] NTUA – Electr. Eng. Thesis
 "Graphotheoretic Scheme for the Construction of Low Complexity Codes", Athens, Feb, 1984

[2] PhD Thesis

“High Resolution Spectral Analysis Methodologies”, Athens, Oct 1989.

[3] M.Sc. Thesis in the Post-graduate Programme of “History and Philosophy of the Sciences and the Technology”

Thesis: “The influence of the alchemical ideas upon Chemistry (16th – 18th centuries)”, Sept. 2000.

7.2. Books

[1] E.Desypri, M. Dendrinou, ECDL Series, Basic Concepts of Informatics, Libris-Tech Publ, Athens, 2003 [in Greek]

[2] M. Dendrinou, V. Katsouros, *ECDL Series, Databases – Microsoft Access 2000*, Libris-Tech Publ, Athens, 2003 [in Greek]

[3] M. Dendrinou, V. Katsouros, *ECDL Series, Databases – Microsoft Access 2002*, Libris-Tech Publ, Athens, 2004 [in Greek]

[4] M. Dendrinou, *Introduction to Information Technology – Applications in Librarianship*, Libris-Tech Publ, Athens, 2006 [in Greek]

[5] M. Dendrinou, *Software applications for Library Management*, Libris-Tech Publ, Athens, 2006 [in Greek]

[6] M. Dendrinou, *Telecommunications and Networks: Basic issues & Library Applications*, Libris-Tech Publ, Athens, 2006 [in Greek]

[7] D. Kouis, M. Dendrinou, *Introduction to Information Technology*, New Technology Publications, Athens, 2010 [in Greek]

[8] M. Dendrinou, *Telecommunications – Internet - Libraries*, New Technology Publications, Athens, 2010 [in Greek]

[9] M. Dendrinou and D. Kouis. BASIC PRINCIPLES AND TECHNOLOGIES IN INFORMATION SCIENCE. Athens: 2016. E-book. <https://repository.kallipos.gr/handle/11419/6447> [in Greek]

7.3. Papers in scientific journals with reviewers.

[1] M. Dendrinou and F. Afrati, “A graph-theoretic scheme for the construction of low complexity codes”, *Technica Chronica (TEE) - Scientific Region B*, Volume 6, Issue 1, pp. 37-60, Jan-Mar. 1986.

[2] S. Bakamidis, M. Dendrinou and G. Carayannis, “SVD Analysis by Synthesis of Harmonic Signals”, *Acoustics Speech and Signal Processing (ASSP)*, IEEE, Vol. 39, No.2, pp. 472-477, Feb. 1991

[3] M. Dendrinou, S. Bakamidis and G. Carayannis, “Speech Enhancement from Noise : A Regenerative Approach”, *Speech Communication*, Vol.10, No.1, pp.45-57, Feb.1991 (<http://www.sciencedirect.com/science/article/pii/016763939190027Q>)

[4] M. Dendrinou, “A speaking electronic librarian”, *Ariadne Magazine*, Issue 33, Sept-Oct 2002, UKOLN, UK (<http://www.ariadne.ac.uk/issue33/dendrinou/>)

[5] M. Dendrinou and S. Bakamidis, “A resource description device used for more efficient library services”, *Information Technology and Libraries Journal*, Vol.21, No.4, Dec. 2002 (<http://www.ala.org/lita/ital/21/4/dendrinou/>)

[6] M. Dendrinou, “Alchemical ideas during 16th – 18th centuries”, *Journal of History and Philosophy of Science and Technology Nefsis*, Vol, 12, Summer 2003, pp. 58-80.

[7] M. Dendrinou, “From the physical reality to the virtual reality in the library environment”, *Library Philosophy and Practice (LPP) Journal*, Vol. 7, No. 2, Spring 2005 (<http://unllib.unl.edu/LPP/dendrinou.htm>)

- [8] M. Dendrinou, "Philosophical Views about Digital Information and Relational Schemata", *Library Philosophy and Practice (LPP) Journal*, Vol. 9, No. 1, Fall 2006 (<http://digitalcommons.unl.edu/libphilprac/89/> <http://www.webpages.uidaho.edu/~mbolin/dendrinou2.htm>)
- [9] M. Dendrinou, "Computer science professionals and Greek Library Science", *Education for Information*, IOS Press, Vol. 26, No.2, 2008, pp. 101-111.
- [10] M. Dendrinou, "From Information to Knowledge: From Positive Chatter to Negative Semantics", *PNLA Quarterly, the official publication of the Pacific Northwest Library Association*, Vol. 77, No. 4, Summer 2013 (<http://www.pnla.org/assets/documents/Quarterly/pnlaq78-1fall2013.pdf>)

7.4. Announcements in conferences with reviewers.

- [1] M. Dendrinou and F. Afrati, "Considerations on Low Complexity Codes Concerning Symmetry and Cyclicity", *Proceedings of the European Meeting on Digital Techniques in Simulation Communication and Control (DIGITECH'84), IMACS (International Association for Mathematics and Computers in Simulation)*, pp. 263-268, Patras, Jul.1984.
- [2] M. Dendrinou and G. Carayannis, "Spectrum Analysis Using a New Autocorrelation Measure", *Proceedings of the International Conference on Acoustics Speech and Signal Processing, ICASSP'88, IEEE*, paper E6.7, pp. 2468-2471, New York, April 1988 (http://ieeexplore.ieee.org/xpl/freeabs_all.jsp?arnumber=197143)
- [3] M. Dendrinou, M. Rangoussi and G. Carayannis, "Overdetermined Spectral Analysis of Short Data Records", *Proceedings of the International Symposium on Circuits and Systems", ISCAS'88, IEEE*, pp. 1585-1588, Helsinki, June 1988 (http://ieeexplore.ieee.org/xpl/freeabs_all.jsp?arnumber=15235)
- [4] M. Dendrinou and S. Bakamidis, "End-Point Detection in Coloured Background Noise Using Singular Values Ratios", *Proceedings of the International Conference on Language Engineering on the Information Highway*, Santorini, Sept.1994.
- [5] M. Dendrinou and S. Bakamidis, "Voice Activity Detection in Coloured-Noise Environment through Singular Value Decomposition", *Proceedings of the International Conference on Signal Processing Applications & Technology, ICSPAT'94, IEEE*, pp. 137-141, Dallas, USA, Oct.1994.
- [6] M. Dendrinou, "A Case Study for the Management of a Set of Spectrally Analysed Signals Based in OODBMS", *Proceedings of the International Database Engineering and Application Symposium, Concordia University, IDEAS'97, IEEE Montreal, Canada*, Aug.1997 (http://ieeexplore.ieee.org/xpl/freeabs_all.jsp?arnumber=625666)
- [7] M. Dendrinou, "Obstructive Sleep Apnea (OSA) Detection through Energy and Spectral Measures", *International Conference on Signal Processing Applications and Technology (ICSPAT-98), IEEE, Toronto, Sept. 1998.*
- [8] M. Dendrinou, S.Bakamidis, I.Dologlou and G.Carayannis, "Single Channel SVD based Noise Reduction Techniques", *4th European Conference on Noise Control, EURONOISE 2001*, Patra, 14-17 Jan.2001.
- [9] G. Tampouratzis, S. Bakamidis, I. Dologlou, G. Carayannis, M. Dendrinou, "The IMUTUS interactive music tuition system", *Acoustical Society of America (ASA) Conference in Pittsburgh, PA, USA, June 2002.*
- [10] M. Dendrinou, "Special interfaces with electronic library systems for persons with vision disabilities", *12th Hellenic Conference of Academic Libraries, TEI of Serres, Nov. 2003*, pp. 375-384. [in greek]
- [11] N. Kareklas, M. Dendrinou, "Safety issues in the distribution of information in the librarian community", *14th Hellenic Conference of Academic Libraries, TEI of Athens, Dec. 2005*. [in greek]

- [12] M. Dendrinis, “An interpretation of Aristotelian Logic according to George Boole”, *International Conference on Integrated Information (IC-ININFO-2011)*, Oct. 2011, Kos, Greece
- [13] M. Dendrinis, “A medieval encyclopedia in terms of contemporary knowledge management schemes”, *3rd International Conference on Integrated Information (IC-ININFO-2013)*, Sept. 2013, Prague, Czech Republic
- [14] Daphne Kyriaki-Manessi, Markos Dendrinis. “Developing an ontology for the University Archives: the domain of technological education”. *The 3rd International Conference on Integrated Information*, Sept. 2013, Prague, Czech Republic. Published in *Procedia. Elsevier. Social and Behavioural Sciences*. 2014, pp. 349-359. DOI: 10.1016/j.sbspro.2014.07.111
- [15] M. Dendrinis, “An interpretation of the Platonic Sophist under the view of the contemporary semantical relations”. *Proceedings of the Conference "History of Information"*. Law Library of the University of Athens, Ionian University. Athens, May 2013 [in greek]
- [16] Ioannis Triantafyllou . Georgios Giannakopoulos , Daphne Kyriaki-Manessi , Markos Dendrinis , Alexandros Koulouris , Spiros Zervos , “Significance of clustering and classification applications in digital and physical libraries”, *4th International Conference on Integrated Information (IC-ININFO-2014)*, Sept. 2014, Madrid, Spain
- [17] Alexandra Barouchou , Markos Dendrinis , “Similarity extraction mechanism concerning historical personalities based on SQL queries in an RDBMS environment”, *4th International Conference on Integrated Information (IC-ININFO-2014)*, Sept. 2014, Madrid, Spain
- [18] Markos Dendrinis, “Organization of the concepts of the Platonic dialogue Parmenides into a software ontology”, *4th International Conference on Integrated Information (IC-ININFO-2014)*, Sept. 2014, Madrid, Spain

7.5. Indicative citations

Citation sites : ISI Web of Science, CITeseer, Scopus, Google-scholar [until 3/12/2016]

 S. Bakamidis, M. Dendrinis, and G. Carayannis, “SVD Analysis by Synthesis of Harmonic Signals”, *IEEE Transactions on Signal Processing*, 39(2), 1991

41 citations (2011-2015: 3, 2016:2)

 M. Dendrinis, S. Bakamidis, and G. Carayannis, “Speech Enhancement from Noise: A Regenerative Approach”, *Speech Communication*, 10(1):45--57, February 1991.

173 citations (2011-2015: 40, 2016: 9)

 M. Dendrinis and S. Bakamidis, “Voice Activity Detection in Coloured-Noise Environment through Singular Value Decomposition”, *Proceedings of the International Conference on Signal Processing Applications & Technology, ICSPAT'94, IEEE*, pp. 137-141, Dallas, USA, Oct.1994.

1citation

M. Dendrinis, "A Case Study for the Management of a Set of Spectrally Analysed Signals Based in OODBMS", *Proceedings of the International Database Engineering and Application Symposium, Concordia University, IDEAS'97*, IEEE Montreal, Canada, Aug.1997 (http://ieeexplore.ieee.org/xpl/freeabs_all.jsp?arnumber=625666)

2 citations

M. Dendrinis, "A speaking electronic librarian", *Ariadne Magazine*, Issue 33, Sept-Oct 2002, UKOLN, UK (<http://www.ariadne.ac.uk/issue33/dendrinos/>)

5 citations

M. Dendrinis, "Special interfaces of library electronic systems for persons with visual disabilities", *Proceedings of the 12th Conference of Academic Libraries*, Serres, Greece, 2003

2 citations

M. Dendrinis, "From the physical reality to the virtual reality in the library environment", *Library Philosophy and Practice (LPP) Journal*, Vol. 7, No. 2, Spring 2005 (<http://libr.unl.edu:2000/LPP/lpp.htm>)

2 citations

M. Dendrinis, "Computer science professionals and Greek Library Science", *Education for Information*, IOS Press, Vol. 26, No.2, 2008, pp. 101-111.

4 citations (2011-2015: 3)

M. Dendrinis, "Philosophical Views about Digital Information and Relational Schemata", *Library Philosophy and Practice (LPP) Journal*, Vol. 9, No. 1, Fall 2006 (<http://digitalcommons.unl.edu/libphilprac/89/>)

Αριθμός άρθρων που το περιέχουν ως αναφορά : 2 citations (2013:1, 2015:1)

Daphne Kyriaki-Manessi, Markos Dendrinis. "Developing an ontology for the University Archives: the domain of technological education"

2 citations (2016:2)