

Theodore Kalamboukis, Professor
Department of Informatics
Athens University of Economics & Business

Education

BSc in Mathematics, University of Athens 1975

Ph.D. in Computing Science, Glasgow University 1979

Academic Experience

1996-today Professor in Computer Science, Department of Informatics, Athens University of Economics

1998-today, Director of Distance Learning, Virtual Reality and Multimedia Laboratory

2001-2004 and 2004-2007 he was elected Vice Rector and President of the Research Committee of AUEB.

Research Interests

His research interests include parallel and distributed processing of system and application programs. He is also involved in research in the area of Information Processing and Retrieval and Open Distance Learning.

Research activities

He has published a series of articles in international refereed journals, and he has acted as referee in several international journals. He has supervised two doctoral theses and he is the author of three books in Greek. He has acted as evaluator of the program EPET (General Secretariat of Research and Technology) and as national representative in the program Libraries-Telematics.

Research and Development Programs

He has participated in five European Programs ESPRIT and several national programs:

- **MedAS**, Medical Assistance System, Cross Language Retrieval and Image retrieval, GGET, 2006.
- **TIME, Tele-imaging in Medicine**, EU - ASIA ICT Programme, 2005
- **PENED** 2003, Combined Research in Information Retrieval, Natural Language Processing and user modelling aimed towards the development of advance search engines, PENED - GGET, 2003.
- **Design of a system for the e-services of the National Council of Employee Selection (ASEP)**, Information Society AE, 2003.
- **Joint Research and Technology Programm 2002-2005**, with University of Iasi, Faculty of Computer Science, funded by General Secretariat of Research & Development.
- **e-Lexicon**, On line lexicon of Economic Terms, Library of the University of Economics and Business, EΠEAK II, 2002.
- **IntCultNet**, IntCultNet - Intercultural Learning in the Internet, Socrates- Minerva, Open and Distance Learning and ICT in Education, funded by EU and Athens University of Economics.

- **Reformation of the pregraduate curriculum of the Informatics Department - EPEAEK Program**, funded by the Ministry of Education, EPEAEK program.
- **DILOS**: Bi-Lingual Electronic Lexicon of Economic terms with reference of the terms to text corpora, funded by the General Secretariat of Research & Development, EPET II, Language Technology.
- **MITOS**: Developing of a system for filtering extracting and mining information from both textual and structured databases of financial material, funded by the General Secretariat of Research & Development, EKBAN program.
- **Hermes**: An Information Retrieval System for Modern Greek, funded by Athens University of Economics.
- A Multimedia Database of the heirloom, History and Art of the Holy Monastery of Vatopedion – Holy Mountain of Athos, funded by the General Secretariat of Research & Development, SYN program.
- **PITHEAS**: Tele-training and Tele-education System for Teachers of the Greek Language as Second and Foreign Language Abroad, funded by the General Secretariat of Research & Development, EPET II, Language Technology.
- **THALIS**: Educational Software in Mathematics, funded by the Pedagogical Institute of Greece.
- **PNPA**, Parallel Numerical Processing through Ada, MAP project 786.
- **ACCORD**, Computer Aided Engineering Software for Advance Workstations in the CIM Environment, ESPRIT project 1062.
- **BECAUSE**, Benchmarking of Concurrent Architectures for their Use in Scientific Engineering, ESPRIT project 5417.

Publications

- Using Clustering for Text Classification, Antonia Kyriakopoulou and Theodore Kalamboukis, The 30th Annual International ACM SIGIR Conference 23-27 July 2007, Amsterdam
- Greek-English Cross Language Retrieval of Medical Information, S. Eliakis, T.Z. Kalamboukis, E. Kotsonis, Medical Imaging and Informatics 2007, August 14-16, Beijing, China
- Using Clustering for Text Classification, Antonia Kyriakopoulou and Theodore Kalamboukis, Challenge Workshop, 17th European Conference on Machine Learning, 2006.
- Improving Classification Accuracy of Hierarchical Clustering, M. Theodorakis, A.Vlachos, T. Z. Kalamboukis, 3rd Hellenic Conference on Artificial Intelligence, Samos, May 2004.
- A Framework for a Knowledge Management approach to Digital Portfolios, Antonia Kyriakopoulou, Theodore Kalamboukis, ED-MEDIA 2003, World Conference on Educational Multimedia, Hypermedia & Telecommunications, Honolulu, Hawaii, USA, June 2003
- The instructional instrument SL-EDGE, Student Library – Educational DiGital Environment, Tonia Kyriakopoulou, Theodore Kalamboukis, World Conference

- on E-Learning in Corporate, Government, Healthcare & Higher Education 2002, Montreal, 2002.
- SL-EDGE: Student Library-Educational DiGital Environment Tonia Kyriakopoulou, Theodore Kalamboukis, International Conference in Information & Communication Technologies in Education, Samos 2002.
 - "MITOS: An Integrated Web-based System for Information Management", E. Kopanaki, V. Karkaletsis, C.D. Spyropoulos, N. Avradinis, N. Fakotakis, Th. Kalamboukis, B. Kladis, Y. Lazarou, Th. Panayiotopoulos, D. Spinellis, *Proceedings of the 8th Panhellenic Conference on Informatics*, Nicosia, Cyprus, November 8-10, 2001.
 - Performance issues of the k-NN text categorization algorithm, S. Nikolaidis, T. Z. Kalamboukis, *Proceedings of the 8th Panhellenic Conference on Informatics*, Nicosia, Cyprus, November 8-10, 2001.
 - A Computer- Assisted Lexicographic Application Marios Sintichakis, T. Z. Kalamboukis, D. Spinellis, 15th International Symposium on Theoretical & Applied Linguistics, May 2001, Thessaloniki, Greece.
 - PITHEAS: A web-based Tele-Training Environment for Teaching Greek as a Second Language, B. Makrakis, G. Katsimali, T.Z.Kalamboukis, Ch. Stefanou, A. Kyriakopoulou, et al., *Proceedings of the Panhellenic Conference on New Technologies and Distance Learning*, Rethimnon 2001, 15-31.
 - Corpus Analysis for Applied Lexicography, COMLEX2000, Marios Sintichakis, Katia Kermanidis and T. Z. Kalamboukis, Workshop on Computational Lexicography and Multimedia Dictionaries, Kato Achaia, Greece, pp 121-126.
 - A corpus Based Stemming Algorithm S. Nikolaidis, T.Z. Kalamboukis, Technical Report, Department of Informatics, Athens University of Economics and Business, 2000.
 - An Educational Package for Teaching Statistics in Secondary Schools Lina Charis., Afantenos Stergos, Chatzistamatiou Antonis, Dimaki Aikaterini, Kalamboukis Theodore, 2nd Panhellenic Conference in Information and Communication Technologies in Education, Patra 2000
 - An Evaluation of Stemming Algorithms with Modern Greek Simos Nikolaidis, T.Z Kalamboukis, *Proceedings of the 7th Hellenic Conference on Informatics*, p II. 61- 70, Ioannina 1999.
 - Principles, Methodologies and Evaluation of Distance Learning Antonia Kyriakopoulou, Theodore Kalampoukis, "Principles, Methodologies and Evaluation of Distance Learning" Open and Distance Learning and Regional Development Conference Proceedings, Igoumenitsa, Greece, November 1999.
 - Suffix Stripping with Modern Greek, 1994, Program, vol. 29, No 3, 1995, 313-321.
 - Communication Performance of a Message Passing MIMD Computer, *Future Generation Computer Systems* 10, (1994), 402-409.
 - A parallel algorithm for the dense symmetric eigenvalue problem on a transputer array, *Parallel Computing* 18, (1992), 207-212.
 - Towards optimal distributed election on Ghordal rings, *Information Processing Letters* 38, (1991), 265-270.

- The symmetric Tridiagonal eigenvalue problem on a transputer network, *Parallel Computing*, 15, (1990), 101-106.
- Tridiagonalization of band symmetric matrices for vector computers, *J. Computers and Math. Appls*, 19, (1990), 29-34.
- A stochastic approach of the inverse of a matrix, (in Greek) *Mathematical Review*, 22 (1981), 35-47.
- A Lanczos-type algorithm for the generalized eigenvalue problem $Ax=\lambda Bx$, *J. of Computational Physics*, 53, (1984), 82-89.
- A method for calculating the extreme eigensolution of a real symmetric matrix of high order, *J. Phys. A: Math. And Gen.* 13 9(1980), 2369-2374.
- Davidson's algorithm with and without perturbation corrections, *J. of Phys. A: Math. And Gen.* 13 (1980), 57-62.