

CURRICULUM VITAE

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CONTACT & PERSONAL INFORMATION

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SCIENTIFIC INTERESTS

Software Engineering, Biomedical Applications, Regulation and Competition in the Electronic Communications Market, Communications Policies.

PUBLISHED SCIENTIFIC WORK

Selected Journal Publications

- Giakoumakis E., G. Papakonstantinou, E. Skordalakis, "Rule-based systems and pattern recognition", *Pattern Recognition Letters*, vol. 5, No 4, 267-272, April 1987.
- Kyrkos A., E. A. Giakoumakis, G. Carayiannis, "QRS detection through time recursive prediction techniques", *Signal Processing*, vol. 15, 429-436, December 1988.
- Mouloupoulos S.D., S.F. Stamatelopoulos, C.P. Papamichael, N.A. Zakopoulos, E.A. Giakoumakis, "'Hypertensives' without hypertension: The need for a new definition", *Journal of Ambulatory Monitoring*, vol. 2, No 4, 269-275, 1989.
- Stamatelopoulos S.F., N. Zakopoulos, J. Papadakis, E.A. Giakoumakis, S.D. Mouloupoulos, "Linear models of Blood Pressure - Heart Rate variability in classifying essential Hypertension", *Journal of Ambulatory Monitoring*, vol. 7, No 3, 235-246, 1994.
- Bourlas F., E. Giakoumakis, D. Koutsouris, G. Papakonstantinou, P. Tsanakas, "The CARDIO-LOGOS system for ECG training and diagnosis", *Technology and Health Care*, vol. 3, 279-285, 1996.
- Giakoumakis E. A., G. Xylomenos, "Evaluation and Selection Criteria for Software Requirements Specification Standards", *Software Engineering Journal*, vol. 11, No. 5, 307-319, 1996.
- Diamantidis N., E. A. Giakoumakis, "Don't care values in induction", *Artificial Intelligence in Medicine*, vol. 8, 505-514, 1996.
- Diamantidis N. and E. A. Giakoumakis, "An Interactive tool for Knowledge base refinement", *Expert Systems*, vol. 16, No 1, 2-10, 1999.
- Diamantidis N. A., D. Karlis, E. A. Giakoumakis, "Unsupervised stratification of cross-validation for accuracy estimation", *Artificial Intelligence*, 116 (2000), 1-16, 2000.
- [Christos Doulkeridis](#), [Vassilis Zafeiris](#), [Kjetil Nørvgåg](#), [Michalis Vazirgiannis](#), Emmanouel A. Giakoumakis, "Context-based caching and routing for P2P web service discovery",.

- Distributed and Parallel Databases Journal** special issue on Context-aware Web services, Vol. 21, Issue 1, pages 59-84, 2007.
- Vassilis Zafeiris, Emmanouel Giakoumakis. "An Agent-based Perspective to Handover Management in 4G Networks", **Wireless Communications and Mobile Computing Journal**, Vol. 8, Issue 7, pages 927-939, 2008.
 - Vassilis E. Zafeiris and E. A. Giakoumakis, "Optimized Traffic Flow Assignment in Multihomed, Multi-Radio Mobile Hosts", **Computer Networks Journal**, Vol. 55, Issue 5, pages 1114-1131, 2011.
 - A. Christopoulou, E. A. Giakoumakis, V. E. Zafeiris, V. Soukara, "Automated Refactoring to the Strategy Design Pattern", **Information and Software Technology Journal**, Vol. 54, pages 1202-1214, 2012.
 - M.G. Gaitani, V.E. Zafeiris, N.A. Diamantidis, [E.A. Giakoumakis](#), "Automated refactoring to the NULL OBJECT design pattern", **Information and Software Technology Journal**, Vol. 59, pp 33-52, 2015.
 - Vassilis E. Zafeiris, Sotiris H. Poulias, N.A. Diamantidis, E.A. Giakoumakis, "Automated refactoring of super-class method invocations to the Template Method design pattern", **Information and Software Technology Journal**, Volume 82, pages 19-35, 2017.

Articles in Volumes

- Giakoumakis, E., "Information Network for Local Authorities, Greece (Third party services and contracting out - Project management support)", **Management Issues in Applying Information Technology in public administration: The Greek experience compared with those of Canada , Ireland and Sweden**, Edited by Organization for Economic Co-operation and Development (OECD), 119-122, Paris 1989.
- Giakoumakis E.A., G. Papakonstantinou, "A consulting system for ECG diagnosis", **Engineering Systems with Intelligence: Concepts, Tools and Applications**, Edited by S. Tzafestas, Kluwer Academic Publishers (ISBN 0-7923-1500-6), 133-137, 1991.
- Giakoumakis E., "Telecommunications and new Technologies", **NEW MILLENNIUM GREECE, IMCE, Paris France**, pp 165-181, 2001.

Selected Conference Publications

- Giakoumakis E. A., "Computer-based cardiac state diagnosis using Fourier analysis", **Digitech 84, IMACS**, July 1984, University of Patras, Elsevier Science Publishers, 241-246, 1985.
- Giakoumakis E. A., G. Papakonstantinou, "An ECG data reduction algorithm", **Computers in Cardiology**, IEEE, Boston, pp. 675-677, 1986.
- Giakoumakis E., G. Papakonstantinou, M. Sideri, "A hybrid approach to the QRS detection in the ECG waveforms", **IEEE/Ninth Annual Conference of the Engineering in Medicine and Biology Society - Boston 1987**, pp. 1883-1884, 1987.
- Kyrkos A., E. A. Giakoumakis, G. Carayiannis, "Time recursive prediction techniques on QRS detection problem", **IEEE/Ninth Annual Conference of the Engineering in Medicine and Biology Society - Boston 1987**, pp. 1885-1886, 1987.
- Giakoumakis E., G. Papakonstantinou, "A Prolog Program for the QRS detection and classification", **Computers in Cardiology, IEEE, Leuven, Belgium, 1987**, 75-78, 1987.
- Giakoumakis E.A., S. Mouloupoulos, G. Papakonstantinou, D. Sideris, S. Toumanidis, "Formalization of the ECG diagnostic criteria using an expert system shell", **Computers in Cardiology, IEEE Leuven, Belgium, 1987**, 155-158, 1987.
- Sideris D.A., S.D. Mouloupoulos, S. Toumanidis, E. Giakoumakis, "A suggestion for a stepwise operation of an expert system for Electrocardiographic diagnosis", **Medicon 89, Univ. Patras 1989**, 282-283, 1989.
- Giakoumakis E. A., G. Papakonstantinou, "The GIBS interface for ECG diagnosis", **Computers in Cardiology, IEEE, Venice, Italy, 1991**, 681-684, 1991.

- Giakoumakis E., N. Diamantidis, "A Learning System for ECG Diagnosis Expert Systems", **Computers in Cardiology, IEEE, London, UK, 1993**, 563-566, 1993
- Frangakis G., E. Giakoumakis, "An Expert System for Electrocardiogram Diagnosis", **EURISCON '94, Malaga Spain**, 456-460, 1994
- C. A. Osuna, Y.A. Dimitriadis, L. Barrio, B. Rubia, A. Kefala, E.A. Giakoumakis, T. Apostolopoulos, "A new telematic and educational framework for CSCL applications", **TET'99** (Telecommunications for Education and Training), Gjovik, Norway, June 1999, 99-106, 1999.
- Ph. Bourlas, E. Giakoumakis, G. Papakonstantinou, "A knowledge acquisition and management system for ECG diagnosis", **ACAI-99** (Advanced Course on Artificial Intelligence), Chania, Greece, July 1999.
- Y. A. Dimitriadis, S. Andritsopoulou, E. Giakoumakis, "A distance computer supported collaborative learning approach for repatriated teachers", **Information and Communication Technologies in Education**, September 2002, Rhodes, 594-603, 2002.
- Vassilis Zafeiris, Emmanouel Giakoumakis, "An Agent-based Architecture for Handover Initiation and Decision in 4G Networks" In Proceedings of 6th **IEEE International Symposium on a World of Wireless, Mobile and Multimedia Networks (WoWMoM 05)**, pages 72-77, Taormina, Italy, June 2005.
- Vassilis E. Zafeiris and Emmanouel A. Giakoumakis, "Towards flow scheduling optimization in Multihomed Mobile Hosts" In Proceedings of **IEEE International Symposium on Personal, Indoor and Mobile Radio Communications (PIMRC 08)**, IEEE, 2008.
- Vassilis E. Zafeiris and Emmanouel A. Giakoumakis, "Mobile Agents for Flow Scheduling Support in Multihomed Mobile Hosts" In Proceedings of **International Wireless Communications and Mobile Computing Conference, 2008. (IWCMC 08)**, pages 261-266, IEEE, 2008.
- George Tsatsaronis, Maria Halkidi, and Emmanouel A. Giakoumakis, "Quality Classifiers for Open Source Software Repositories", **AIAI-2009** Workshops Proceedings, pages 179-186, 2009.
- S. Polykalas, D. Linardatos, E. Giakoumakis, "Evidence of Network Convergence at EU level", **International Conference on Information Society** (IEEE / i-Society 2014, <http://www.i-society.eu/>), 10-12, November 2014, London UK, 2014.

Books

- Giakoumakis E. A., "Software Technology, Volume A", A. Stamoulis Publications, Athens 1994.
- Giakoumakis E. A., "Software Technology, Volume B", A. Stamoulis Publications, Athens 1993.
- Giakoumakis E. A., Gyrtis K., Belesiotis V., Xinos P., Stergopoulou N., "Informatics and Computers Applications", Student's Book, Educational Institute, Ministry of Education and Religion, 2001.
- Giakoumakis E. A., Gyrtis K., Belesiotis V., Xinos P., Stergopoulou N., "Informatics and Computers Applications", Student's Handbook, Educational Institute, Ministry of Education and Religion, 2001.
- Giakoumakis E. A., Gyrtis K., Belesiotis V., Xinos P., Stergopoulou N., "Informatics and Computers Applications", Professor's Book, Educational Institute, Ministry of Education and Religion, 2001.
- Giakoumakis E. A., Diamantidis N., "Software Engineering", A. Stamoulis Publications, Athens 2009.

RESEARCH PROGRAMS

- “New Methods in the Analysis of Market Competition: Oligopoly, Networks and Regulation”, Thales, 2012-2015.
- “Distance Learning of Unemployed Teaching staff in Creative Child Care”, Leonardo Da Vinci Project EL/98/1/68108/PI/I.1.1.e/FPC. 1998-2001
- “State of the Art Financial Services for the Inhabitants of Isolated Areas” (STARFISH), IST, EU, 2000-2002.
- «Bidirectional Broadcast Programs via Computer Networks» (Amphitryon), Operational Programme for Research and Technology (EPET II), 1999-2001.
- “New Applications of Telematics in Education”, Research & Technology Programme Cooperation Greece-Spain, 1997-99.
- HILDE (Hypermedia Intelligent Learning Development Environment), Operational Programme for Research and Technology (EPET II), Sub-Programme 1, 1995-97.
- HOLIST (Health Organizations Laboratory Intelligent System Technology), STRIDE HELLAS, 1991-93.

ACADEMIC POSITIONS

- 1990 - 1993 : Lecturer, Informatics Department, Athens University of Economics and Business
1993 – 2001 : Assistant Professor, Informatics Department, Athens University of Economics and Business
2001 - 2012 : Associate Professor, Informatics Department, Athens University of Economics and Business
2012 - : Professor, Informatics Department, Athens University of Economics and Business.

TEACHING

Software Technology, Computer Programming, Technological and Regulatory Issues of Telecommunications.

MANAGEMENT POSITIONS

- 1988 - 1990: Head of Informatics Department of the Hellenic Society for Local Development and Local Government (EETAA)
- 1995 -1997: Chairman and Managing Director of the State Societe Anonyme Hellenic Information Systems (ELSYP SA)
- 1998-2000: Secretary General of Communications of the Ministry of Transport and Communications.
- 2000 - 2005: Chairman of the Greek Regulatory Authority for Electronic Communication under the name “Hellenic Telecommunications and Post Commission (EETT)” (<http://www.eett.gr/>)
- 2000-2005: Member of the IRG (Independent Regulators Group), the highest body, of the European Electronic Communications Regulators' Association.
- 2000-2005: Member of the European Regulators Group (ERG), a high level advisory and recommendation body of the European Commission.
- 2011 - 2015: Vice-Rector of Academic Affairs and Personnel of Athens University of Economics and Business.
- 2015 -: Rector of the Athens University of Economics and Business.

MEMBERSHIP IN SCIENTIFIC INSTITUTIONS

- Technical Chamber of Greece (TEE)
- Biomedical Society IEEE (Institute of Electrical & Electronics Engineers).
- Computer Society IEEE (Institute of Electrical & Electronics Engineers).
- Association for Computing (ACM)