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Studies

- Ph.D., Dept. of Electrical Engineering and Computer Engineering, National Technical University of Athens (1988)
- Diploma of Electrical Engineer, National Technical University of Athens (1981)

Research Interests

- Software Engineering: object oriented software, design patterns.
- Biomedical applications: biomedical signals and diagnosis.
- Telecoms regulation and competition: Relevant markets' analysis, Broadband penetration.

Selected Journal Publications

- "QRS detection through time recursive prediction techniques", Kyrkos A., E.A. Giakoumakis, G. Carayiannis, *Signal Processing*, vol. 15, 429-436, December 1988. [[.pdf](#)]
- "Evaluation and Selection Criteria for Software Requirements Specification Standards", Giakoumakis E.A. and G. Xylomenos, *Software Engineering Journal*, vol. 11, No. 5, 307-319, 1996. [[.pdf](#)]
- "Unsupervised stratification of cross-validation for accuracy estimation", Diamantidis N.A., D. Karlis, E.A. Giakoumakis, *Artificial Intelligence*, 116 (2000), 1-16, 2000. [[.pdf](#)]
- "Context-based caching and routing for P2P web service discovery", Christos Doulkeridis, Vassilis Zafeiris, Kjetil Nørnvåg, Michalis Vazirgiannis, Emmanouel A. Giakoumakis, *Springer Distributed and Parallel Databases Journal* special

issue on Context-aware Web services, Vol. 21, Issue 1, pages 59-84, February 2007. [\[.pdf\]](#)

- "An Agent-based Perspective to Handover Management in 4G Networks ", Vassilis Zafeiris, Emmanouel Giakoumakis, D. **Wiley's Wireless Communications and Mobile Computing Journal**, Vol. 8, Issue 7, pages 927-939, 2008. [\[.pdf\]](#)

Selected Conference Publications

- "An ECG data reduction algorithm", Giakoumakis E.A., G.Papakonstantinou, **Computers in Cardiology**, IEEE, Boston, pp. 675-677, 1986. [\[.pdf\]](#)
- "A hybrid approach to the QRS detection in the ECG waveforms", Giakoumakis E., G. Papakonstantinou, M. Sideri, **IEEE/Ninth Annual Conference of the Engineering in Medicine and Biology Society - Boston 1987**, pp. 1883-1884, 1987. [\[.pdf\]](#)
- "Time recursive prediction techniques on QRS detection problem", Kyrkos A., E.A. Giakoumakis, G. Carayiannis, **IEEE/Ninth Annual Conference of the Engineering in Medicine and Biology Society - Boston 1987**, pp. 1885-1886, 1987. [\[.pdf\]](#)
- "A Prolog Program for the QRS detection and classification", Giakoumakis E., G. Papakonstantinou, **Computers in Cardiology, IEEE, Leuven, Belgium, 1987**, 75-78, 1987. [\[.pdf\]](#)
- "Formalization of the ECG diagnostic criteria using an expert system shell", Giakoumakis E.A., S. Mouloupoulos, G. Papakonstantinou, D. Sideris, S. Toumanidis, **Computers in Cardiology, IEEE Leuven, Belgium, 1987**, 155-158, 1987. [\[.pdf\]](#)
- "An Agent-based Architecture for Handover Initiation and Decision in 4G Networks", Vassilis Zafeiris, Emmanouel Giakoumakis, 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. [\[.pdf\]](#)
- "Towards flow scheduling optimization in Multihomed Mobile Hosts", Vassilis E. Zafeiris and Emmanouel A. Giakoumakis, In Proceedings of **IEEE International Symposium on Personal, Indoor and Mobile Radio Communications (PIMRC 08)**, IEEE, 2008. [\[.pdf\]](#)
- "Mobile Agents for Flow Scheduling Support in Multihomed Mobile Hosts", Vassilis E. Zafeiris and Emmanouel A. Giakoumakis, In Proceedings of **International Wireless Communications and Mobile Computing Conference, 2008. (IWCMC 08)**, pages 261-266, IEEE, 2008. [\[.pdf\]](#)
- "Quality Classifiers for Open Source Software Repositories", George Tsatsaronis, Maria Halkidi, and Emmanouel A. Giakoumakis, **AIAI-2009 Workshops Proceedings**, pages 179-186, 2009. [\[.pdf\]](#)

Selected Books

- "Τεχνολογία Λογισμικού", Μ. Γιακουμάκης – Ν. Διαμαντίδης, Εκδόσεις Α. Σταμούλης, Αθήνα 2009.

Positions Held

Emm. Giakoumakis has served at the following positions:

- 2000-2005: Chairman of the National Telecommunications and Post Commission of Greece (E.E.T.T.), the Greek National Regulatory Authority.

- 1998-2000: Secretary General for Communications, in the Ministry of Transport and Communications.
- 1995-1997: Chairman and Managing Director of the "Hellenic Information Systems S.A"
- 1987-1990: Director of Informatics Department of "Hellenic Agency for Local Development and Local Authority S.A"