Dr. Konstantinos Antonis

Associate Professor

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Education

- 1989-1994   Computer Engineering and Informatics Diploma, Polytechnic School, University of Patras
- 1995-2000   PhD in Computer Engineering and Informatics, Polytechnic School, University of Patras, thesis: "Load Balancing and its Applications in Financial Systems"

Foreign Languages

- English (First Certificate in English, Cambridge University, 1991)
- French (Certificat de langue française, 1985)

Professional and Research Experience

- From June 2021 faculty member of the Physics Department of University of Thessaly, as Assistant Professor.
- From 29/1/2019 faculty member of the General Department of University of Thessaly, as Assistant Professor.
- Faculty member of the Computer Engineering Department of the Technological Institute of Central Greece. Research area: "Distributed Systems and Applications in Education and Finance".
    - From 22/2/2017 as Associate Professor.
    - From 28/2/2013 to 21/2/2017 as Assistant Professor.
    - From 5/10/2005 to 20/2/2013 as Lecturer

- External cooperator of Reasearch Unit 6 of Computer Technology Institute and "Diofantos" Publications, in the following european projects (February 18th 2013 – December 31st 2013):
  - MED Technopolis
  - SONETOR
- Contributing in the SIVA project of the University of Patras from 1/4/2013-30/9/2014.
- Contributing in several national projects of the Technological Institute of Central Greece
- Member of Intracom SA, from January 2002 February 2003, contributing in the following european projects:
  - PUSSEE
  - HARMONICS
- January 1996 to February 2000: Member of Reasearch Unit 1 of the Computer Technology Institute and "Diofantos" Publications, contributing in several european and national projects, e.g. ALCOM-IT, TRENDS

Teaching

- Teaching courses in the University of Thessaly, Department of Physics (from 2021)
  - Computer Programming I (C)
  - Computer Programming II (Python)
- Teaching courses in the Technological Institute of Central Greece (from 2005)
  - Operating Systems
  - Distributed Systems
  - Special Issues on Distributed Systems
  - Parallel Systems
- From September 2014 external cooperator of the Computer Science Department of the University of Thessaly.
- Previously teaching as an external cooperator in the Technological Institute of Central Greece and the Technological Institute of Patras (now Technological Institute of West Greece).

Journal Publications

1. **Konstantinos Antonis, Petros Lampsas, Ioannis Katsenos, Spyros Papadakis and Stella – Maria Stamouli,** "*Flipped Classroom with Teams-based Learning in Emergency Higher Education: Methodology and Results*", Education and

Information Technologies, Springer, 2022, DOI: 10.1007/s10639-022-11339-3, online link: https://doi.org/10.1007/s10639-022-11339-3.

2. **Christos Bouras, Konstantinos Antonis, Georgios Diles, Vasileios Kokkinos, and Leonidas Loukopoulos,** "*Economic Broadband Development Through Infrastructure Sharing*", International Journal of Business Data Communications and Networking (IJBDCN), Vol. 10, No.4, pp. 21-42, 2014.

3. **Konstantinos Antonis, Christos Bouras, Fabrizio D'Elia, Annalisa Di Vincenzo, Georgios Diles, Vasileios Kokkinos, and Andreas Koskeris, "***Broadband and e-Government Services in South East Europe: Comparative Analysis, Impact and Policy Recommendations*", International Journal of Interdisciplinary Telecommunications and Networking (IJITN) , January – March 2014, Vol.6, No 1, pp.39-56.

4. **Konstantinos Antonis, Thanasis Daradoumis, Spyros Papadakis and Christos Simos,** *"Evaluation of the Effectiveness of a Web-Based Learning Design for Adult Computer Science Courses",* IEEE Transactions on Education, Vol. 54, Issue 3, 374-380, August 2011.

5. **K. Antonis and N. Voros**, "*System Level Design of Telecom Systems Using Formal Model Refinement: Applying the B Method/Language in Practice*", Journal of Systems Architecture, Vol. 54/1-2 (2008), pp. 287-304.

6. **Petros Th. Lampsas, Vassilis Triantafylloy & Konstantinos Antonis, "***On the Systemic Overview of the Introduction of Information and Communication Technologies in Learning Environments*", Open Education, Vol. 4, 2006.

7. **K. Antonis, J. Garofalakis, J. Mourtos, and P. Spirakis**, "*A Hierarchical Adaptive Distributed Algorithm for Load Balancing*", Journal of Parallel and Distributed Computing (Elsevier), Vol. 64, pp. 151-162, January 2004.

8. **Antonis K., Bouras C., Garofalakis J., Kastis N., Kontogiannis S., Lampsas P., Spirakis P., Tsakarisianos G.,** *"Results and experience from the application of a common methodology for Users Requirements Specification in Distance Education using Telematics"*, Journal of Technology & Teacher Education (JTATE), 6(1), pp.61-74, 1998.

Book Chapters

Petros Lampsas, Jim Prentzas, and Konstantinos Antonis, "*Adult Distance Education in Informatics with the Use of Information and Communication Technologies", (in Greek). Videoconference in the Service of Life-Long Learning and Distance Education: Pedagogical – Technological Methods of Distance Collaborstive Learning in Greek Higher Level Education", (in greek),* chapter 9, Gutenberg, Publications, 2008.

International Conference Publications

1. **Konstantinos Antonis, Christos Bouras, Georgios Diles, Vasileios Kokkinos, and Leonidas Loukopoulos, "***A Novel Tool for Cost-Efficient Broadband Development Through Infrastructure Sharing***",** Proceedings of the IEEE 20th Symposium on Computers and Communications (ISCC), 6-9 July 2015, Larnaca, Cyprus.

2. **Konstantinos Antonis, Christos Bouras, Fabrizio D'Elia, Annalisa Di Vincenzo, Georgios Diles, Vasileios Kokkinos, and Andreas Koskeris, "***Comparative analysis of broadband penetration and digital public services in South East Europe***",** Proceedings of the IEEE 19th Symposium on Computers and Communications (ISCC), 23-26 June 2014, Madeira, Portugal.

3. **M. Tasiou, K. Antoni**s, **and T.A. Michail**, "*Combining Load Balancing with Energy Saving in a Cluster-based P2P System* ", Proceedings of the IARIA 9th International Multi-Conference on Computing in the Global Information Technology (ICCGI 2014), Seville, 22-27 June, pp. 115-120, 2014.

4. **N. Karagiannis, K. Giannakos and K. Antoni**s, "*Comparing Travelling Design Patterns for Mobile Agent Development Using JADE*", Proceedings of the IEEE 19th International Multi-Conference on Computing in the Global Information Technology (ICCGI 2012), Venice, 24-29 June, pp. 8-13, 2012. Best paper award.

5. **G. Pentaris, K. Antonis, P. Lampsas and S. Papadakis**, *"Evaluation of combined Collaborative and Problem-based Approach in a Web-based Distance Education Course"*, Proceedings of the 2008 European LAMS Conference, in Cadiz (Spain), pp. 149-159, 25-27 June, 2008.

6. **K. Antonis, P. Lampsas and J. Prentzas**, "*Adult Distance Learning Using a Web-based Learning Management System: Methodology and Results*", 6th International Conference on Web-based Learning (ICWL) 2007, Edinburgh 15-17 August 2007, pp. 240-247.

7. **K. Antonis and N. Voros**, "*Applying Formal Methods for the Design of Wireless Telecommunication Systems*", Mobimedia 2007, Ναύπακτος, 27-29/08/2007.

8. **K. Antonis, J. Garofalakis, and P. Spirakis**, "*A Comparative Symmetrical Transfer Policy for Load Sharing*", Proc. Euro-Par conference, 1998, pp. 352-355.

9. **Antonis K., Bouras C., Garofalakis J., Kastis N., Kontogiannis S., Lampsas P., Spirakis P., Tsakarisianos G.,** *"Conclusions on the Analysis of User Requirements concerning the use of ICT in the Didactic Process"*, ED-MEDIA/ED-TELCOM'97 conference, pp.13-18, 1997.

10. **K. Antonis, B Mamalis, B. Papakostas, P. Spirakis, A. Stamoulis, B. Tampakas**, *"Efficient and Effective Distributed Information Retrieval Techniques with the Vector Space Model"*, PDCS '96 conference, September 1996, pp. 726-731.

Greek Conference Publications

1. **Spyros Papadakis, Ioannis Katsenos, Konstantinos Antonis, Petros Lampsas and Stella-Maria Stamouli,** "Distance Learning Courses in Informatics with the

Flipping Classroom approach in Tertiary Education" (in greek), 12º Hellenic/International Conference "Informatics Technologies in Education", 2021.

2. **Konstantinos Antonis, Petros Lampsas, Dimitris Prentzas,** *"Results from the Implementation of an Adult Educational Program with the Use of a Learning Management System"* (in greek), 4th International Conference for the Open and Distance Education, Vol. B, pp. 285-291, Athens, November 2007.

3. **Andreas Nioras, Thanasis Loukopoulos, Konstantinos Antonis, Dimitris Prentzas, Panagiotis Papazoglou, Petros Lampsas, Stavros Karkanis,** *"Application of a Hybrid Distance Education Method with the Use of the Blackboard System"* (in greek), *3rd* International Conference for the Open and Distance Education, Vol. B, pp. 311-318, Patras, November 2005.

4. **Konstantinos Antonis, Vassilis Mamalis, Vasilis Papakostas, Paul Spirakis, Anastasios Stamoulis, Vassilis Tampakas,** *"Distributed Management and Text Retrieval Techniques over Local and Wide Area Networks",* (in greek), 1st Conference organized by the Greek Technical Chamber, "The Information Society", pp. 79-89, 1995.

Books

1. **Konstantinos Antonis and Petros Lampsas**, editing of the book "Operating System Concepts" (in greek), A. Silberschatz, G. Gagne and P.B. Galvin, 7th edition, Wiley & Sons, 2005, Greek edition by Ion Publications, 2007.

Citations

1. **Google Scholar: 129 (h-index:5)**

2. **Scopus: 64 (h-index:3)**

Other activities

Reviewer of the following conferences and journals:

- IEEE International Symposium on Computers and Communications ISCC (2022).

- Taylor & Francis, Interactive Learning Environments journal

- Springer, Education and Information Technologies