



**Dr. Konstantinos Antonis**

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### **Personal Information**

- Place of birth: Lamia.
- Date of birth: February 10<sup>th</sup> 1971.
- Family Status: married with two children.

### **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 5/10/2005 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 28/2/2013 as Assistant Professor.
- External cooperator of Research 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 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

- Member of Research Unit 1 of the Computer Technology Institute and “Diofantos” Publications, contributing in several European and national projects from January 1996 to February 2000):

### Teaching

- Teaching courses in the Technological Institute of Central Greece (from 2005)
  - Operating Systems
  - Distributed Systems
  - Special Issues on Distributed 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, 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.
2. **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.
3. **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.
4. **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.
5. **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.
6. **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 Collaborative Learning in Greek Higher Level Education*”, (in greek), chapter 9, Gutenberg, Publications, 2008.

### **International Conference Publications**

1. **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 19<sup>th</sup> Symposium on Computers and Communications (ISCC), 23-26 June 2014, Madeira, Portugal.
2. **M. Tasiou, K. Antonis, and T.A. Michail**, “*Combining Load Balancing with Energy Saving in a Cluster-based P2P System*”, Proceedings of the IARIA 9<sup>th</sup> International Multi-Conference on Computing in the Global Information Technology (ICCGI 2014), Seville, 22-27 June, pp. 115-120, 2014.
3. **N. Karagiannis, K. Giannakos and K. Antonis**, “*Comparing Travelling Design Patterns for Mobile Agent Development Using JADE*”, Proceedings of the IEEE 19<sup>th</sup> International Multi-Conference on Computing in the Global Information Technology (ICCGI 2012), Venice, 24-29 June, pp. 8-13, 2012. Best paper award.
4. **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.
5. **K. Antonis, P. Lampsas and J. Prentzas**, “*Adult Distance Learning Using a Web-based Learning Management System: Methodology and Results*”, 6<sup>th</sup> International Conference on Web-based Learning (ICWL) 2007, Edinburgh 15-17 August 2007, pp. 240-247.
6. **K. Antonis and N. Voros**, “*Applying Formal Methods for the Design of Wireless Telecommunication Systems*”, Mobimedia 2007, Ναύπακτος, 27-29/08/2007.
7. **K. Antonis, J. Garofalakis, and P. Spirakis**, “*A Comparative Symmetrical Transfer Policy for Load Sharing*”, Proc. Euro-Par conference, 1998, pp. 352-355.
8. **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.

9. **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. **Κωνσταντίνος Αντωνής, Πέτρος Λάμπσας, Δημήτρης Πρέντζας,** “*Results from the Implementation of an Adult Educational Program with the Use of a Learning Management System*”, 4th International Conference for the Open and Distance Education, Vol. B, pp. 285-291, Athens, November 2007.
2. **Ανδρέας Νιώρας, Θανάσης Λουκόπουλος, Κωνσταντίνος Αντωνής, Δημήτρης Πρέντζας, Παναγιώτης Παπάζογλου, Πέτρος Λάμπσας, Σταύρος Καρκάνης,** “*Application of a Hybrid Distance Education Method with the Use of the Blackboard System*”, 3rd International Conference for the Open and Distance Education, Vol. B, pp. 311-318, Patras, November 2005.
3. **Αντωνής Κ., Μάμαλης Β., Παπακόστας Β., Σπυράκης Π., Σταμούλης Α., Ταμπακάς Β.,** “*Distributed Management and Text Retrieval Techniques over Local and Wide Area Networks*”, (in greek), 1<sup>st</sup> 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 (in greek) “*Operating System Concepts*”, A. Silberschatz, G. Gagne and P.B. Galvin, 7<sup>th</sup> edition, Wiley & Sons, 2005 . Greek edition by Ion Publications, 2007.

### **Citations**

1. **Saeed Iqbal, Graham F. Carey,** “*Performance analysis of dynamic load balancing with variable number of processors*”, Journal of Parallel and Distributed Computing (Elsevier), Vol. 65, pp. 934-948, May 2005.
2. **Lan Rong, Zheng Shou-qi, Gui xiao-lin,** “*Adaptive Parallelism Load Balancing strategy Design and Realize for Desktop Grid*”, Microelectronics & Computer, Volume 22, Issue 10, 2005.
3. **Angel Azpicueta Gonzalez, Juan Antonio Rodrigo Yanes, Maria del Carmen, Fernandez Rodriguez, Juan Jose Perez,** “*Dynamical Algorithm to Balance the Load by Means of Use of Vectors of Probabilities and Adaptive Matrixes*”, Proceedings of the 1<sup>st</sup> Iberoamerican Congress on Ubiquitous Computing, Madrid, Spain, May 4-6, 2005.
4. **M.Aldasht, J.Ortega, C.G.Puntonet, A.F.Diaz,** “*Exploración Evolutiva del Equilibrado de Carga Dinámico y Distribuido*”, Jornadas de Paralelismo, Universidad de Granada, Granada, 2005.

5. **Natthakrit Sanguandikul, and Natawut Nupairoj**, “*Implicit Information Approach for Self-Scheduling Load Sharing Policy*”, IASTED PDCS, pp. 72-78., 2005.
6. **Festus Omonigho Iyuke, Bahari Idrus**, “*Evaluation of Gauss Rules with a centralised Dynamic Load Balancing Technique in Parallel Computing Systems*”, Asia Pacific Journal of Information Technology and Multimedia, Vol. 2, 2005.
7. **Christoph Sieb, Giuseppe Di Fatta, Michael R. Berthold**, “*A Hierarchical Distributed Approach for Mining Molecular Fragments*”, Proceedings of the International Workshop on Parallel Data Mining (PKDD/ECML 2006, Berlin, Germany), pp. 25-37, 2006.
8. **Μιχάλης Καλογιαννάκης και Σταμάτης Παπαδάκης**, «*Αξιολόγηση προγραμμάτων κατάρτισης γυναικών και ατόμων με ειδικές ανάγκες μέσω υπηρεσιών υβριδικής εκπαίδευσης*», 4th International Conference for the Open and Distance Education, Vol. B, pp. 373-380, Athens, November 2007.
9. **Romeo Mark A. Mateo, Malrey Lee, Jaewan Lee**, “*Load Balancing Using Dynamic Replication Scheme for the Distributed Object Group*”, Advances in Hybrid Information Technology, Lecture Notes in Computer Science Volume 4413, 2007, pp 458-468.
10. **M.Aldasht, J.Ortega, C.G.Puntonet**, “*Dynamic Load Balancing in Heterogeneous Clusters*”, PICCIT, Palestine Polytechnic University, Hebron, 2007.
11. **WU Qian-jiao, LAN Rong**, “*Tasks Distribution Algorithm of Dynamic Scalable Cluster System*”, Computer Engineering 2007, Vol. 33, Issue (23), pp.81-83.
12. **Saeed Iqbal, Graham F. Carey**, “*Performance of Parallel Computations with Dynamic Processor Allocation*”, Engineering with Computers Journal, Vol. 24, No. 2, Springer – Verlag London Limited 2007, pp. 135-143, June 2008.
13. **Ghada F. El Kabbany, Nayer M. Wanas, Nadia H. Hegazi, Samir I. Shaheen**, “*A Dynamic Load Balancing Framework for Real-time Applications in message Passing Systems*”, International Journal of Parallel Programming, Springer, Vol. 39, 143-182, 2011.
14. **Dan Lo, Larry Wang**, “*An online tutoring system with instant responses*”, Proceedings of the 49th Annual Southeast Regional Conference, ACM-SE’11, pp. 316-317.
15. **J.W.Y. Lim, Poo Kuan Hoong, Eng-Thiam Yeoh, and I.K.T. Tan**, “*Performance analysis of parallel computing in a distributed overlay network*”, TENCON 2011 - 2011 IEEE Region 10 Conference, 21-24 Nov. 2011, pp. 1404 – 1408.

16. **D. Craven**, “*Enabling paradigm for enhancing quality education: Optimizing delivered quality with computer-based education*”, 15th International Conference on Interactive Collaborative Learning (ICL), January 2012.
17. **Shengbin Liao, Cuitao Zhu**, “*Micro-learning based on social networking*”, 2nd International Conference on Computer Science and Network Technology (ICCSNT), January 2012.
18. **Ibrahim Alkore Alshalabi, Samir Hamada, Khaled Elleithy**, “*Research Learning Theories that Entail M-Learning Education Related to Computer Science and Engineering Courses*”, International Journal of Engineering Sciences. 03/2013; 2(3):88-95.
19. **S. Charoenpit, M. Ohkura**, “*A Proposal of New E-Learning System Design Focusing on Emotional Aspects Using Biological Signals*”, International Conference on Biometrics and Kansei Engineering (ICBAKE), January 2013.