

CV

Prof. Ilias K. SAVVAS

Larissa, Greece
savvas@teilar.gr
<http://teilar.academia.edu/IliasSavvas>
skype: ilias.k.savvas
Tel.: +30 2410 684522

Present Position: **Professor, University of Thessaly, Greece.**

Education

- PhD: Computer Science, UCD, School of Computer Science and Informatics, Dublin, Ireland, Thesis title: Scheduling and Assignment of CPU-Intensive Tasks on Large Heterogeneous Distributed Systems, 2004
- MSc: Computer Science, University of Dundee, Dept. of Computer Science, Scotland, U.K., Grade: Very Good, 1988
- BSc: Mathematics, Aristotle's University of Thessaloniki, Greece, Grade: Very Good, 1982.

Skills and Qualifications

- gLite/EGEE (Enabling Grids for E-science) in Practice (Hagenberg, Austria, 2007)
- Accelerated Training for Microsoft Windows NT 4.0 (Larissa, Greece, 2000)
- Development of Multimedia Applications, (Cannes, France, 1994)
- Languages: Greek (native language), English (excellent), German (good)

Appointments

Dean , School of Technological Applications, TEI of Thessaly, Greece	01/09/2018 – 28/01/2019
Head of the Dept. , Dept. of Computer Science & Engineering, T.E.I. of Thessaly, Greece	01/11/2013-31/08/2016
Director of the MSc program , “Software engineering for internet and mobile applications”, Dept. of Computer Science & Engineering, T.E.I. of Thessaly, Greece	01/09/2014 - present
Professor , Dept. of Computer Science & Engineering, T.E.I. of Thessaly, Greece Modules: Computer Programming, Data and File Structures, Distributed and Parallel Programming, Data Mining MSc program: Cloud Computing, Distributed and Parallel Systems, Distributed and Multicore Programming	01/02/2017 - present
Associate Professor , Dept. of Computer Science & Engineering, T.E.I. of Thessaly, Greece Modules: Computer Programming, Data and File Structures,	2013-

Distributed and Parallel Programming, Data Mining	01/02/2017
Visitor Professor, University College Dublin (UCD), Ireland, School of Computer Science and Informatics, Cloud Computing – MSc module, Programming (undergraduate).	2011, Spring Semester
Assistant Professor, Dept. of Computer Science & Telecommunications, T.E.I. of Larissa, Greece Modules: Algorithms and Complexity, Programming with C, Advanced Programming with C, Programming with JAVA, Data Structures, File Structures, Linear Algebra	2004-2013
Lecturer, Dept. of Computer Science & Telecommunications, T.E.I. of Larissa, Greece Modules: Algorithms and Complexity, Programming with C, Advanced Programming with C, Programming with JAVA	2002-2004
IT Manager, Central Library, T.E.I. of Larissa, Greece	1998-2002
IT Manager, Papayiannis Bros. Ltd., Food Industry, Larissa, Greece	1996-1998
Under contract: Lecturer, Dept. of Civil Engineering, Dept. of Management Modules: Databases, Programming, Advanced Programming	1989-1996

Student Notes

1. C Programming I, Dept of Computer Science & Telecommunications
2. C Programming II, Dept of Computer Science & Telecommunications
3. Algorithms and Complexity, Dept of Computer Science & Telecommunications
4. Programming with JAVA, Dept of Computer Science & Telecommunications
5. Databases, Dept. of Project Management

Student Feedback (2011-2014)

Range: Low 0→5 High (First among all the staff of the Department of Computer Science & Engineering, dept.'s average: 3.3)

1. Algorithms and Complexity: 4.3
2. C Programming I: 4.5
3. C Programming II (advanced programming): 4.3
4. File Structures: 4.4
5. Data Structures and File Organization: 4.6

Research Interests

Cloud Computing, Task scheduling and load balancing, Resource allocation, Data mining and distributed data mining, parallel and distributed algorithms, Networks performance, Cloud Computing, Big Data, Clustering Geopolitical Data.

Awards and Honors

- Best Paper Award: WETICE/ETNGRID'06, George Kakarontzas and Ilias K. Savvas, "Agent-Based Resource Discovery and Selection for Dynamic Grids", IEEE Computer Society Press, WETICE 2006/Emerging Technologies for Next-generation GRID, ETNGRID 2006, pages 195-200, Manchester, U.K., June 2006
- Best Paper Award: Ilias K Savvas and Tahar Kechadi, "Task Scheduling Using the Tabu Search Heuristic Technique", 16^o All Greek Conference of Project Management, Larissa, Sept. 2003

Professional Activities

Technical Program Committee "Convergence of Distributed Clouds, Grids and their Management" - CDCGM 2014	2014-2019
Steering/Program Committee: "Cooperative Data Mining", WETICE 2013	2013
Program Committee "Convergence of Distributed Clouds, Grids and their Management" - CDCGM 2013	2013
Steering/Program Committee of the track "Cooperative Data Mining", WETICE 2012,	2012
Program Committee "Convergence of Distributed Clouds, Grids and their Management" - CDCGM 2012, http://etngrid.diit.unict.it/OaC.html ,	2012
Reviewer: Future Generation Computer Systems (journal), Elsevier, http://www.elsevier.com/wps/find/journaldescription.cws_home/505611/description#description	2010-present
Co-Organizer: 2nd International IEEE Track on Cooperative Knowledge Discovery and Data Mining – CKDD/WETICE 2011, Paris, France	2011
Steering Committee: 2nd IEEE International Track on Cooperative Knowledge Discovery and Data Mining – CKDD/WETICE 2011, Paris, France	2011
Steering Committee: WETICE 2010, 20th IEEE International Conference, Paris, France	2011
Chair of the Scientific Committee and Coordinator of the Collaborative PHD Programme on Computer Science between UCD, Ireland and T.E.I. if Larissa, Greece	2010-2014
Local Coordinator of the Collaborative PHD Programme on Computer Science between UCD and T.E.I. of Larissa	2010-2014
Organizer: WETICE 2010, 19th IEEE International Workshops on Enabling Technologies: Infrastructures for Collaborative Enterprises, Larissa, Greece	2010
Co-Organizer: 1st International IEEE Workshop on Cooperative Knowledge Discovery and Data Mining – CKDD, Larissa, Greece	2010
Steering Committee: 1st IEEE International Workshop on Cooperative Knowledge Discovery and Data Mining – CKDD, Larissa, Greece	2010
Program Committee: 1st IEEE International Workshop on Cooperative Knowledge Discovery and Data Mining – CKDD, Larissa, Greece	2010
Steering Committee: WETICE 2010, 19th IEEE International Workshops on Enabling Technologies: Infrastructures for Collaborative Enterprises, Larissa, Greece	2010
Program Committee: International IEEE Workshop on Emerging Technologies for Next generation GRID - ETNGRID	2008 - 2010

Reviewer: (International Journal of) Future Generation Computer Systems, Elsevier	2010
Reviewer: (International Journal of) Computer Applications, ACTA Academic Press	2007-2010
Supervisor: MSc theses, PhD theses	2006-2010
Internal Examiner: MSc theses	2006-2010
External Examiner: MSc theses	2010
University's representative: Greek Academic Libraries Network	2002–2010
University's representative: Greek Academic Community of “Greek Free / Open Source Software Society”	2004 – 2010
University's representative: Greek Academic Computational GRID	2007–2010
Vice President: National Library of Larissa, Greece	2000-2010
Organizer: 11th All Greek Conference of Academic Libraries	2002

Contribution to the Department

Chair of the Scientific Committee and Coordinator of the Collaborative PHD Programme on Computer Science between UCD and T.E.I. of Larissa	2010-2014
Local Coordinator of the Collaborative PHD Programme on Computer Science between UCD and T.E.I. of Larissa	2010-2014
Supervisor (final year projects) (Appendix)	From 2002
Supervisor (MSc theses) (Appendix)	From 2006
Member of the Scientific Committee ‘Development of the new department’s MSc course: MSc in Computer Science’	2009-2010
Member of the Scientific Committee ‘Development of the new department’s syllabus’	2004-2005
Student advisor	From 2008
President / member of more than fifty (50) departmental committees (upon request)	From 2002

Contribution to the Institute

President of the scientific committee ‘Development of a Computer Laboratory for Disabled Students’, Central Library of T.E.I. of Larissa	2006-2008
President of the E-learning committee, T.E.I. of Larissa	2006-2008
President of the scientific committee of the IT system of the Central Library of T.E.I. of Larissa	From 2002
President / member of more than thirty (30) institutional committees (upon request)	From 2002
University's representative: Greek Academic Libraries Network	2002–2010
University's representative: Greek Academic Community of “Greek Free / Open Source Software Society”	2004 – 2010
University's representative: Greek Academic Computational GRID	2007–2010
Organizer, President of Steering Committee: 11th All Greek Conference of Academic Libraries	2002

Contribution to the Society

Vice President: National Library of Larissa, Greece (non-funding position)	2000-2010
--	-----------

IT Manger: National Library of Larissa, Greece (non-funding position)	From 2002
President of the scientific committee ‘Development of a Computer Laboratory for Disabled People’, Central Library of T.E.I. of Larissa	2006-2008

Administration Duties

Head of the Department (Computer Science and Engineering)	2013-2016
Student advisor	From 2008
President / Member of several committees for purchase of various materials (Computer Labs, equipment and maintenance of classrooms, heating, ...)	From 2002

Research funding

1. Advanced E-learning services for the T.E.I. of Larissa, 2003-2006, Budget: € 116,000
2. Development of Heuristic Algorithms to Optimize Large Computational Heterogeneous Computing Systems, 2003-2004, Budget: € 10,000
3. Research and Development of Sensor Networks for Agricultural Applications, (participation), 2003-2007, Budget: € 80,000
4. Resource Management Techniques for Increasing the Bandwidth of Telecommunication Networks, (participation), 2003-2007, Budget: € 80,000

Selected Publications

2019

1. Georgia Garani, Ilias K. Savvas, Andrey V. Chernov, and Maria A. Butakova, “A Data Warehouse Approach for Business Intelligence”, 28th IEEE-WETICE 2019, pages: -, Capri, Italy, *funded by RFBR according to the research project 19-01-246-a, 19-07-00329-a, 18-01-00402-a, 18-08-00549-a.*

2018

2. Ilias K. Savvas, and Georgia Garani, “Perspepectives of Fast Clustering Techniques”, 3rd International Scientific Conference “Intelligent Information Technologies for Industry”, IITI 2018, pages: 31- 40, Sochi, Russia.
3. Andrey V. Chernov, Ilias K. Savvas, and Maria A. Butakova, “Detection of Point Anomalies in Railway Intelligent Control System Using Fast Clustering Techniques”, 3rd International Scientific Conference “Intelligent Information Technologies for Industry”, IITI 2018, pages: 267-276, Sochi, Russia
4. Ilias K. Savvas, Dimitrios Tselios, and Georgia Garani, “Distributed and Multi-Core Version of k-means Algorithm”, Int. J. of Grid and Utility Computing, (accepted), 2018
5. Douglas Dyllon Jeronimo de Macedo, and Ilias K. Savvas, “Novel Algorithms, Emergent Approaches and Applications for Distributed Computing”, Int. J. of Grid and Utility Computing, (accepted), 2018

2017

6. Ilias K. Savvas and Dimitrios Tselios, “Combining Distributed and Multi-Core Programming Techniques to Increase the Performance of k-means Algorithm”, 26th IEEE-WETICE 2016, pages: 95-100, Poznan, Poland.
7. Ilias K. Savvas, Alekos Stogiannos, and Ioannis T. Mazis, “A Study of Comparative Clustering of EU Countries Using the DBSCAN and K-means Techniques within the Theoretical Framework of Systemic Geopolitical Analysis”, *Int. J. of Grid and Utility Computing*, Vol. 8, No. 2, pages: 94-108, 2017
8. I. K. Savvas, C. Chaikalis, F. Messina, and D. Tselios, “Understanding Customers' Behaviour of Telecommunication Companies Increasing the Efficiency of Clustering Techniques”, 25th IEEE Telecommunications forum TELFOR 2017, Serbia
9. V. Markoulis, C. Chaikalis, I. K. Savvas and K. E. Anagnostou, “Reconfigurability and performance of mobile routing protocols for VANET applications”, 25th IEEE Telecommunications forum TELFOR 2017, Serbia

2016

10. Dimitrios Tselios, Ilias K. Savvas, and M.Tahar Kechadi, “Phased Methods for Solving Multi-Objective MPM Job Shop Scheduling Problem”, *International Journal of Monitoring and Surveillance Technologies Research*, Volume 4 (1), pages 42-61, 2016 Invited Paper
11. Alekos STOGIANNOS, Ioannis MAZIS, and Ilias SAVVAS, “Data-Mining Anwendungen In Der Systemischen Geopolitik: Eu-Staaten Clusteranalyse Ohne Das Vereinigte Königreich”, *Zeitschrift für die Regionale Wissenschaft*, vol. 0(1), pages 49-57, Dezember 2016
12. Vasileios Kouliaridis, Vasileios Vlachos, Ilias K. Savvas, and Iosif Androulidakis, “SIRTOS: A Simple Real-Time Operating System”, *IEEE Int. Conference on Information and Digital Technologies*, pages: 150-155, Poland, 2016
13. Ilias K. Savvas, and Georgia N. Sofianidou, “A novel near-parallel version of k-means algorithm for n-dimensional data objects using MPI”, *Int. J. of Grid and Utility Computing*, Volume 7 (2), pages: 80-91, 2016
14. Ilias K. Savvas and Dimitrios Tselios, “Parallelizing DBSCAN Algorithm Using MPI”, 25th IEEE-WETICE 2016, pages: 77-82, Paris, France.

2015

15. Dimitrios Tselios, and Ilias K. Savvas, “Analysis of the results obtained by Intelligent Method for Project Portfolio Scheduling”, 23rd IEEE Telecommunications forum TELFOR 2015, Serbia, pages 902-905
16. Dimitrios Tselios, Ilias K. Savvas, and M-Tahar Kechadi, “Integrated Intelligent Method for Solving Multi-objective MPM Job Shop Scheduling Problem”, *The 6th International Conference on Information, Intelligence, Systems and Applications, IISA 2015*, Corfu, Greece
17. Ilias K. Savvas, and Georgia N. Sofianidou, “A novel near-parallel version of k-means algorithm for n-dimensional data objects using MPI”, *Int. J. of Grid and Utility Computing*, *Accepted, tbp in 2015*
18. Ilias K. Savvas, Alekos Stogiannos, and Ioannis T. Mazis, “Clustering EU’s Countries According to I. Th. Mazi’s Systemic Geopolitical Theory Using K-means and MPI”, 24th IEEE-WETICE 2015, pages: 78-83, Larnaca, Cyprus

2014

19. Ilias K. Savvas, and Georgia N. Sofianidou, “Parallelizing k-means Algorithm for 1-d Data Using MPI”, *IEEE-WETICE 2014*, pages: 179-184, Parma, Italy.
20. Ilias K. Savvas, Georgia N. Sofianidou, and M-Tahar Kechadi, Book Chapter: “Applying the K-Means Algorithm in Big Raw Data Sets with Hadoop and MapReduce”, Book Title: *Big Data Management, Technologies, and Applications*,

Publisher: IGI Global, 2014, DOI: 10.4018/978-1-4666-4699-5, ISBN13: 9781466646995, ISBN10: 1466646993, pages: 23-46.

2013

21. Dimitrios Tselios, Ilias K. Savvas, and M-Tahar Kechadi, "Multiple Project Portfolio Scheduling using Recurrent Neural Networks", International Journal of Simulation Systems, Science & Technology (IJSSST), 2013, Vol. 8, No. 4, pp 227-240.
22. Dimitrios Tselios, Ilias K. Savvas, and M-Tahar Kechadi, "MPM Job Shop Scheduling Problem: a bi-objective approach", International Journal of Simulation and Process Modelling (IJSPM), Inderscience Publishers, 2013, Vol. 14, No. 1, pp 49-58.
23. Dimitrios Tselios, Ilias K. Savvas, and M-Tahar Kechadi, "RNN modelling for Bi-objective MPM Job Shop Scheduling Problem", CICSyN 2013, pages: 13-18, Madrid, Spain.

2012

24. Ilias K. Savvas, M-Tahar Kechadi, "Mining on the Cloud: K-means with MapReduce", 2nd Int. Conference on Cloud Computing and Service Sciences, CLOSER 2012, pages 413-418, Porto, Portugal,
25. Dimitrios Tselios, Ilias K. Savvas, and M-Tahar Kechadi, "The Weighted Tardiness as objective function of a RNN model for the Job Scheduling Problem", 2012 UKSim-AMSS, 6th European Modelling Symposium, Malta, 2012,
26. Dimitrios Tselios, Ilias K. Savvas, and M-Tahar Kechadi, "Project Portfolio: A Job Scheduling Approach", The Sixth International Conference on Complex, Intelligent, and Software Intensive Systems (CISIS-2012) – ICLS 2012, pages: 847 – 852, Palermo, Italy.

2011

27. G. Kakarontzas, I. K. Savvas, and I. Stamelos, "Agents, clusters and components: A synergistic approach to the GSP", Future Generation Computer Systems – FGCS, 27 (8): 999-1010 (2011), impact factor: 2,365.

2010

28. P. Fitsilis, V. Gerogiannis, L. Anthopoulos, and I. K. Savvas, "Supporting the Requirements Prioritization Process Using Social Network Analysis Techniques IEEE Computer Society Press, WETICE 2010 /Cooperative Knowledge Discovery and Data Mining", CKDD 2010, pages 110-115, Larissa, Greece, June 2010.

2009

29. Ilias K. Savvas, "Synergy of Task Allocation Techniques for Large Computational Grids", IEEE Computer Society Press, WETICE 2009 / Emerging Technologies for Next-generation GRID, ETNGRID 2009, pages 171-176, Groningen (The Netherlands), June 2009.

2008

30. Ilias K. Savvas, Dimitrios C. Tselios, and George Kakarontzas, "Quality Interplay in Regular vs. Irregular Grid Topologies", IEEE Computer Society Press, WETICE 2008 / Emerging Technologies for Next-generation GRID, ETNGRID 2008, pages 176-181, Rome, Italy, June 2008.

2007

31. Ilias K. Savvas and M-Tahar Kechadi, "Efficient Load Balancing on Irregular Network Topologies Using B+tree Structures", IEEE Computer Society Press, 6th International Symposium in Parallel and Distributed Computing, ISPDC 07, pages 185-192, Hagenberg, Austria, July 5-8, 2007.
32. Ilias K. Savvas and George Kakarontzas, "On Resource Clustering Techniques for Grid Resource Discovery", IEEE Computer Society Press, WETICE 2007/Emerging Technologies for Next-generation GRID, ETNGRID 2007, pages 302-307, Paris, France, June 2007.

2006

33. (Best Paper) George Kakarontzas and Ilias K. Savvas, "Agent-Based Resource Discovery and Selection for Dynamic Grids", IEEE Computer Society Press, WETICE 2006/Emerging Technologies for Next-generation GRID, ETNGRID 2006, pages 195-200, Manchester, U.K., June 2006.

2005

34. M-Tahar Kechad and Ilias K. Savvas, "Dynamic Task Scheduling for Irregular Network Topologies", *International Journal of Parallel Computing*, Elsevier, Vol 31 (2005), pages 757-776

2004

35. Ilias Savvas and Tahar Kechadi, "Performance Study of a Dynamic Task Scheduling For Heterogeneous Distributed Systems", *Operational Research*, Vol. 4, Issue 3, pages 291-303
36. Ilias Savvas and Tahar Kechadi, "Dynamic Task Scheduling in Computing Cluster Environments", IEEE Computer Society Press, 3rd International Symposium in Parallel and Distributed Computing / HeteroPar'04, pages 372-379, Cork, Ireland, July 2004.

2003

37. Ilias Savvas and Tahar Kechadi, "On The Load Distribution and Performance of Meta-Computing Systems", IEEE Computer Society Press, 2nd International Symposium in Parallel and Distributed Computing, pages 222-229, Ljubljana, Slovenia, Oct. 2003.
38. Ilias Savvas and Tahar Kechadi, "Performance Study of Scheduling Mechanisms for P2P Computing Environments", *Parallel Computing and Applied Mathematics / HeteroPar-03*, Czestochowa, Poland, 7-10 Sept 2003, Springer – Verlag, LNCS 3019, pages 954-962.
39. C. Hartonas, V. C. Gerogiannis, I. Savvas & G. Kakarontzas, "Towards Team Orientation in Agent Design: Social Plan Execution", e-Proceedings of SSGRR'03s, L'Aquila, Italy, July 27 - August 4, 2003.

Ilias K. Savvas
Larissa, GR, 05/04/2019