

Dr. Theodore Kotsilieris
Curriculum Vitae

General Information

Surname: **Kotsiliers**
First Name: **Theodore**
Father's name: Konstantinos
Date of birth: 20th December 1975
Nationality: Greek
Marital status: Married
Military Service: Fulfilled
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Studies

7/2/2003 Received his PhD degree on Computer Engineering: "Distributed management of IP networks and applications", at National Technical University of Athens

9/1998 – 2/2003 PhD candidate at the Department of Electrical and Computer Engineering of the National Technical University of Athens

9/1993 – 9/1998 Patras University, Department of Electrical and Computer Engineering, Division of Information Technology.

Diploma Thesis: "Theoretical evaluation and implementation of the IDEA cryptography algorithm", University of Patras, 1998 – Grade: Excellent (10).

Teaching experience

08/2014 – Present Assistant Professor of the Technological Educational Institute of Kalamatas.

10/2007 – Lecturer of the Technological Educational Institute of Kalamatas.

08/2014

10/2004 – Adjunct Faculty of the Technological Educational Institute of Kalamatas.

10/2007

2/1999 – 1/2003 Department of Electrical and Computer Engineering of the National Technical University of Athens teaching of the laboratory courses "Multimedia Technology" and "Computer Graphics".

Work experience

4/2006 – 10/2007 *Municipality of Avlona, Messinia, Greece*
Software Engineer

7/2004 – 6/2005 *EXIS I.T. Ltd...*
Consultant - R&D projects for the following telecommunication services providers: TELEDOME S.A., VIVODI S.A. and ALTEC TELECOMS

7/2003 – 6/2004 *3 KP Construction Company*
Supervisor Electrical and Computer Engineer on software projects

4/2000 – 10/2002 *National Technical University of Athens*

Participation as a research fellow in the following projects:

1. MANTRIP (IST Project 10921, 2000-2002)
2. NETGATE
3. ERMIS (2000-2002)
4. CHIME

During the abovementioned projects Dr. Theodore Kotsilieris participated in several technical meetings and conferences and also co-authored several deliverables for the European Union.

3/1999-3/2000 *MORGENSTERN CONSULTING Ltd*

Participated as Telecommunication Software Engineer in the following European Union projects:

1. PRIAMOS,
2. IQ-ATS,
3. COPARIS

During the abovementioned projects Dr. Theodore Kotsilieris participated in several technical meetings and conferences and also co-authored several deliverables for the European Union.

9/1998 –3/1999 Researcher at the Scientific Institute of Computer Communication Systems of the National Technical University of Athens

Scientific Publications

Forty six (46) refereed publications in international journals (19), book chapters (5) and international conferences (22). His scientific interests focus on the employment of distributed models in the area of IP network management and information systems, QoS over IP networks, WSN routing and protocol testing, E-Learning and Virtual Worlds.

Journal papers

- 1 "An Efficient Agent Based Data Management Method of NoSQL Environments for Health Care Applications", Kotsilieris, T. Healthcare 2021, 9, 322.
<https://doi.org/10.3390/healthcare9030322>
- 2 "A dropout weight-constrained recurrent neural network model for forecasting the price of major cryptocurrencies and CCi30 index", Livieris, I.E., Stavroyiannis, S., Pintelas, E., Kotsilieris T., Pintelas P. Evolving Systems (2021). <https://doi.org/10.1007/s12530-020-09361-2>
- 3 "A Semantic Mixed Reality Framework for Shared Cultural Experiences Ecosystems", Costas Vassilakis, Konstantinos Kotis, Dimitris Spiliotopoulos, Dionisis Margaritis, Vlasios Kasapakis, Christos-Nikolaos Anagnostopoulos, Georgios Santipantakis, George A. Vouros, Theodore Kotsilieris, Volha Petukhova, Andrei Malchanau, Ioanna Lykourentzou, Kaj Michael Helin, Artem Revenko, Nenad Gligoric, Boris Pokric, Big Data and Cognitive Computing 4(2):6, doi: <https://doi.org/10.3390/bdcc4020006>
- 4 "Predicting anxiety disorders and suicide tendency using machine learning: a review", Kotsilieris T, Pintelas E, Livieris IE, Pintelas P., Int. J. Medical Engineering and Informatics, Vol. 12, No. 6, 2020

- 5 "Forecasting Stock Price Index Movement Using a Constrained Deep Neural Network Training Algorithm", Livieris, I. E., Pintelas, E., Kotsilieris, T., Stavroyiannis S. & Pintelas, P., DOI: 10.3233/IDT-190035, Intelligent Decision Technologies, vol. 14, no. 3, pp. 313-323, 2020
- 6 "Weight-Constrained Neural Networks in Forecasting Tourist Volumes: A Case Study", Livieris, I. E., Pintelas, E., Kotsilieris, T., Stavroyiannis S. & Pintelas, P., (2019), Electronics, <https://doi.org/10.3390/electronics8091005>
- 7 "Improving the evaluation process of students' performance utilizing a decision support software", Livieris, I. E., Kotsilieris, T., Tampakas, V., & Pintelas, P. (2019), Neural Computing and Applications. <https://doi.org/10.1007/s00521-018-3756-y>
- 8 "A Literature Review of User Satisfaction Models Towards Information System Success", Antonopoulou, M., & Kotsilieris, T. (2019), International Journal of E-Services and Mobile Applications (IJESMA), 11(2), 71-87. <https://doi.org/10.4018/IJESMA.2019040105>
- 9 "Predicting anxiety disorders and suicide tendency using machine learning: a review", Kotsilieris, T., Pintelas, E., Livieris, I.E., Pintelas, P. (2019), International Journal of Medical Engineering and Informatics (IJMEI) (Accepted for publication)
- 10 "Decision Support Software for Forecasting Patient's Length of Stay", Livieris, I.E., Kotsilieris, T., Dimopoulos, I., Pintelas, P. (2018), Algorithms, 11, 199. <https://doi.org/10.3390/a11120199>
- 11 "Assessment of Health Information Technology Interventions in Evidence-Based Medicine: A Systematic Review by Adopting a Methodological Evaluation Framework", Christopoulou, S., Kotsilieris, T., & Anagnostopoulos, I. (2018), Healthcare, 6(3), 109. <https://doi.org/10.3390/healthcare6030109>
- 12 "Evidence-based health and clinical informatics: a systematic review on randomized controlled trials", S.C. Christopoulou, , T. Kotsilieris, & I. Anagnostopoulos, Health & Technology (2017). <https://doi.org/10.1007/s12553-016-0170-2>
- 13 "The impact of social networks on health care", Kotsilieris, T., Pavlaki, A., Christopoulou, S. et al., Social Network Analysis and Mining (2017) 7: 18. <https://doi.org/10.1007/s13278-017-0438-1>
- 14 "Interconnecting distributed virtual worlds using Metabots: performance evaluation against the traditional client-server model" T. Kotsilieris, G. T. Karetzos, I. Anagnostopoulos, and N. A. Dimopoulou, (2015) Computer Animation & Virtual Worlds, 26: 549–561. <https://doi.org/10.1002/cav.1623>
- 15 "The evolution of e-Learning in the context of 3D Virtual Worlds", T. Kotsiliers, N. Dimopoulou, Electronic Journal of e-Learning (EJEL), ISSN 1479-4403, vol. 11, issue 2, p.p. 147-167, 2013

- 16 “Prolonging the Lifetime of Two-Tiered Wireless Sensor Networks with Mobile Relays”, T. Kotsilieris, G. Karetsos, HINDAWI ISRN Sensor Networks, Volume 2013 (2013), Article ID 610796, <http://dx.doi.org/10.1155/2013/610796>, 7 pages. (προβολή)
- 17 “Performance optimization of Network Management Applications based on Mobile Agents”, T. Kotsilieris, A. Michalas, S. Kalogeropoulos, G. Karetsos , M. Sidi and V. Loumos, Informatik Forum Journal, Special Issue on Mobile Agent Technology, December 2002, Band 14, No.2, p.p. 82 – 90.
- 18 “A Monitoring Information Base for Enhanced Collection of E-Commerce Statistical Indicators within an SNMP Framework” T. Kotsilieris, J. Anagnostopoulos, S. Kalogeropoulos, A. Michalas, V. Loumos and E. Kayafas, Italian Journal Statistical Applicata, Special Issue on New Methodologies and Applications in the E-Commerce Field, vol.14, no4, 2002.
- 19 “A reference model for conformance testing of T.120 multimedia conferencing protocols”, A. Michalas, T. Kotsilieris, S. Kalogeropoulos, V. Kollias, V. Loumos, E. Kayafas, Elsevier Computer Communications 24(3-4), 2001, p.p. 334-343.

Papers in book chapters

- 1 “Investigating the Problem of Cryptocurrency Price Prediction: A Deep Learning Approach”, Pintelas, E., Livieris, I. E., Stavroyiannis S., Kotsilieris, T. & Pintelas, P. (2020), IFIP Advances in Information and Communication Technology book series (IFIPAICT, volume 584) , Springer
- 2 "DTCo: An ensemble SSL algorithm for X-rays classification", Livieris I., Kotsilieris T., Anagnostopoulos I., Tampakas V. (2018), Genedis 2018, Advances in Experimental Medicine and Biology, Springer
- 3 “DSS-PSP - A Decision Support Software for Evaluating Students’ Performance”, I.E. Livieris, K.Drakopoulou, T. Kotsilieris, V. Tampakas, P. Pintelas, In: Boracchi G., Iliadis L., Jayne C., Likas A. (eds) Engineering Applications of Neural Networks. EANN 2017, Communications in Computer and Information Science, vol 744, Springer, 2017, ISBN: 978-3-319-65171-2, https://doi.org/10.1007/978-3-319-65172-9_6
- 4 “vhMentor: An Ontology Supported Mobile Agent System for Pervasive Health Care Monitoring”, S.C. Christopoulou, T. Kotsilieris, I. Anagnostopoulos, CN. Anagnostopoulos, P. Mylonas. In: Vlamos P. (eds) GeNeDis 2016. Advances in Experimental Medicine and Biology, vol 989, Springer, Cham, 2017, ISBN: 978-3-319-57347-2, https://doi.org/10.1007/978-3-319-57348-9_5
- 5 “A prototype SNMP management framework for DiffServ Linux routers, its implementation and performance”, T. Kotsilieris, P. Zikos, E. Vlachos, S. Kalogeropoulos, A. Michalas, G. Karetsos and V. Loumos, Network Control and Engineering for QoS, Security and Mobility, Paris, France, pp.405-416, ISBN 1-4020-7268-6, October 2002, Kluwer Academic Publishers.

Conference papers

- 1 “A review of machine learning prediction methods for anxiety disorders”, Emmanuel G. Pintelas, Theodore Kotsilieris, Ioannis E. Livieris, and Panagiotis Pintelas. 2018. In Proceedings of the 8th International Conference on Software Development and Technologies for Enhancing Accessibility and Fighting Info-exclusion (DSAI 2018). Association for Computing Machinery, New York, NY, USA, 8–15. DOI: <https://doi.org/10.1145/3218585.3218587>
- 2 “Predicting length of stay in hospitalized patients using SSL algorithms”, Ioannis E. Livieris, Ioannis F. Dimopoulos, Theodore Kotsilieris, and Panagiotis Pintelas. 2018. In Proceedings of the 8th International Conference on Software Development and Technologies for Enhancing Accessibility and Fighting Info-exclusion (DSAI 2018). Association for Computing Machinery, New York, NY, USA, 16–22. DOI: <https://doi.org/10.1145/3218585.3218588>
- 3 “A health care monitoring system that uses ontology agents”, S. C. Christopoulou, T. Kotsilieris and I. Anagnostopoulos, 2016 11th International Workshop on Semantic and Social Media Adaptation and Personalization (SMAP), Thessaloniki, 2016, pp. 41-45. <https://doi.org/10.1109/SMAP.2016.7753382>
- 4 “A Web-GIS for socio-demographic and public health data mapping”, I. F. Dimopoulos, T. Kotsilieris, G. Mavridoglou, S. Giakoumatos, C. Economou, F. Droumbalis, D. Bosinis, D. Boudigaris, S. Pantazopoulos, 2016, 2nd International Conference ICODECON, Thessaloniki, Greece, 9-12 June 2016.
- 5 “Socio-demographic and health factors influencing to the number of admissions of elderly”, I. F. Dimopoulos, T. Kotsilieris, G. Mavridoglou, S. Giakoumatos, C. Economou, F. Droumbalis, D. Bosinis, D. Boudigaris, S. Pantazopoulos, 2016, 2nd International Conference ICODECON, Thessaloniki, Greece, 9-12 June 2016.
- 6 “Socio-demographic and health factors influencing the Hospital Length of Stay for Elderly Patients”, F.I. Dimopoulos, G. Mavridoglou, Th. Kotsilieris, S. Giakoumatos and C. Gnardellis, 2015, 4th International Conference for Quantitative and Qualitative Methodologies in the Economic and Administrative Science
- 7 “A web tool for an open and linked health ecosystem”, S. Christopoulou, Th. Kotsilieris, N. Dimopoulou, IEEE International Conference on e-Health and Bioengineering, EHB 2013, 21-23 November 2013, Iasi, Romania
- 8 “A review of 3D Virtual Worlds in Medical and Health education”, S. Christopoulou, Th. Kotsilieris, N. Dimopoulou, J. Papoutsis, IEEE International Conference on e-Health and Bioengineering, EHB 2013, 21-23 November 2013, Iasi, Romania
- 9 “Bank Loan Processes Modeling Using BPMN”, George Mpardis, Theodore Kotsilieris, DeSE 2010 - Developments in E-Systems Engineering, p.p. 239-242, 6-8 September 2010, London, UK.

- 10 "A mobile agent enabled wireless sensor network for river water monitoring", Theodore Kotsilieris, Georg Karetsos, accepted for publication at ICWMC 2008, July 27 – August 1 2008, Athens Greece, pp 346-351
- 11 "A decentralised data fusion system for river water monitoring – The Neda river case ", Theodore Kotsilieris, Georg Karetsos, Alkis Yiannakoulias, Vassilis Loumos, 4th International Conference on Information and Communication Technologies in Bio and Earth Sciences, HAICTA 2008, September 18-20, 2008, Athens, Greece, p.p. 17 – 22
- 12 “Theoretical evaluation of header compression schemes for IP based wireless access systems”, Alkiviadis Yiannakoulias¹, Theodore Kotsilieris², Stavros Stavroyiannis² 12th European Wireless Conference, April 2006, Athens Greece.
- 13 “Performance Evaluation of Mobile Agent Technology for the Configuration and Auditing of SLs in DiffServ Enabled IP Networks”, T. Kotsilieris, S. Kalogeropoulos, G. Karetsos, V. Loumos and E. Kayafas, Proceedings of the 13th International Symposium on Measurements for Research and Industry Applications, Athens, Greece, Sep. 29 - Oct. 1 2004, Vol. 1, pp. 380-385
- 14 “An Open E-Learning Framework within a High Availability Network Infrastructure”, T. Kotsilieris, S. Cotsakis, V. Loumos and E. Kayafas, Proceedings of International Conference on Automatics and Informatics, Sofia, Bulgaria, 6-8 October 2003, vol.1, p.p 25-28.
- 15 “An SNMP Enabled System for Enhanced Monitoring of E-Commerce Statistical Indicators”, Kotsilieris T., Anagnostopoulos J., Kalogeropoulos S., Michalas A., Loumos V. & Kayafas E., AIA 2003, IAESTED International Conference on Applied Informatics, February 10-13, 2003, Innsbruck, Austria, p.p. 446 – 449
- 16 “A Performance Evaluation of Mobile Agent technology in comparison to the Client/Server paradigm for QoS Configuration in DiffServ Domains”, Kalogeropoulos S., Kotsilieris T., Karetsos G., Michalas A., Loumos V. & Kayafas E., AIA 2003, IAESTED International Conference on Applied Informatics, February 10-13, 2003, Innsbruck, Austria, p.p. 577 – 582
- 17 “A Proposed Methodology to Improve the Performance of Agent-based Applications Through the Identification of the Optimum Visited Sequence”, Kalogeropoulos S., Kotsilieris T., Moshe Sidi, Hovav Gazit, Julio Tuch, AIA 2003, IAESTED International Conference on Applied Informatics, February 10-13, 2003, Innsbruck, Austria, p.p. 485 – 489
- 18 “An automatic quality assessment methodology for Abstract Test Suites”, S. Kalogeropoulos, T. Kotsilieris, A. Michalas, V. Loumos and E. Kayafas, Proceedings of 12th IMEKO TC4 International Symposium "Electrical Measurement and Instrumentation", Zagreb, Croatia, September 25-27, 2002, p.p 60 - 65.
- 20 “Enhancing the Performance of Mobile Agent based Network Management Applications”, A. Michalas, T. Kotsilieris, S. Kalogeropoulos, G. Karetsos , M. Sidi and

- V. Loumos, IEEE ISCC'01, Proceedings of the 6th IEEE Symposium on Computers and Communications, Hammamet, Tunisia, 3-5 July 2001, p.p. 432-437.
- 21 "Using Mobile Agent Technology for Configuration and Auditing of SLSs in IP based Networks" T. Kotsilieris, S. Kalogeropoulos, P. Fafali, A. Michalas and G. Karetsos, Proceedings of IEEE ICT 2001, Romania, June 4-7, 2001, vol.1, p.p. 536 - 541 (Conference Best Paper Award)
- 22 "TTCN Quality Metrics", S. Kalogeropoulos, T. Kotsilieris, A. Mihalas, V. Kollias, V. Loumos and E. Kayafas, Proceedings of 10th MELECON 2000, Cyprus, IEEE, May 29, 2000, vol.1, p.p. 140-143.

Participation in National Strategic Reference Framework projects of the TEI Peloponnesus

- 1 Scientific manager of the project: "Digital Services of the TEI Peloponnesus", Sectoral Operational Program Digital Convergence, MIS 327844, Budget: 183.952€
- 2 Participation in the project: "Services upgrade of the TEI Peloponnesus Academic Library", MIS 327481, Budget: 349.300€

Other Scientific/Research activities - Memberships

1. International Journal of Computers & Education - Elsevier, reviewer (since 2013)
2. The Pervasive and Mobile Computing Journal – Elsevier, Invited reviewer
3. Member of the International Program Committee of the IEEE Symposium on Wireless Technology & Applications (ISWTA 2012, 2013, 2014)
4. Member of the International Program Committee of the IEEE Symposium on Computer Applications and Industrial Electronics (ISCAIE 2014)
5. Member of the International Program Committee of the Fourth International Conference on Communication Systems and Network Technologies (CSNT 2014)
6. Member of the International Program Committee of the Sixth International Conference on Computational Intelligence and Computer Networks (CICN 2014)
7. Member of the International Program Committee of The Semantic and Social Media Adaptation and Personalization (SMAP) workshop (since 2014)
8. Member of the International Program Committee of the 12th European Wireless Conference, 2006
9. Chairman of the «Software Measurements» session of the IMEKO – XIII INTERNATIONAL SYMPOSIUM ON MEASUREMENTS FOR RESEARCH & INDUSTRY APPLICATIONS September 29th - October 1st, 2004, Athens, Greece.
10. Member of the Technical Chamber of Greece
11. Academic director of the TEI of Kalamata Network Operations Centre since October 2007

Spoken Languages

English (**Certificate of Proficiency in English** – Cambridge CPE), French (conversational)

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