

CURRICULUM VITAE

PERSONAL INFORMATION

[CHLIAOUTAKIS ANGELOS](#)

Research Associate & Full Stack Software Engineer

Laboratory of Geophysical – Satellite Remote and Archaeo-environment, Institute for Mediterranean Studies of the Foundation for Research and Technology, Hellas (IMS-FORTH), Rethymno, Crete, Greece

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EDUCATION

- 2020 *PhD degree in Electronic and Computer Engineering*
Technical University of Crete, Greece, School of Electrical and Computer Engineering
- 2009 *MSc degree in Electronic and Computer Engineering*
Technical University of Crete, Greece, School of Electrical and Computer Engineering
- 2005 *Diploma in Electronic and Computer Engineering*
Technical University of Crete, Greece, School of Electrical and Computer Engineering

EXPERIENCE

Teaching Assistant

- Design and Development of Information Systems (Fall 2012)
- Data Structures And Algorithms (Spring 2007 - 2012)
- Operating Systems (Fall 2011)
- Algorithms and Complexity (Fall 2008)
- Theory of Computation (Fall 2006, Fall 2007)
- Multimedia Data Management (Fall 2005)

Participation in R&D projects

- BIONIAN - Actions to protect and promote the biodiversity of ecosystems and of areas of natural beauty of the Ionian Islands through "smart" systems of detection, recording, digital mapping and pressures management, NSRF, 2018 - 2022
- LIFE ClimaMed - Innovative technologies for climate change mitigation by Mediterranean agricultural sector, LIFE17 CCM/GR/000087, 2018 - 2022
- BalkanROAD - Towards farms with zero carbon-, waste- and water-footprint. Roadmap for sustainable management strategies for Balkan agricultural sector, INTERREG Balkan-Mediterranean, 2014-2020
- STORM – Safeguarding Cultural Heritage through Technical and Organizational Resources Management, H2020, 2016 – 2018
- VRE for Regional Interdisciplinary Communities in Southeast Europe and the Eastern Mediterranean (VI-SEEM), H2020, 2015 – 2018
- KRIPIS – POLITEIA: Culture-Technology: New Technologies in Research, Study, Documentation and Accessibility in The Information of Items and Monuments of Cultural Heritage, OPCE II, 2013 – 2015
- AgroStrat - Sustainable Strategies for the Improvement of Seriously Degraded Agricultural Areas: The Example of Pistachia Vera L., LIFE11 ENV/GR/951, 2012 – 2017
- IGEAN -Innovative Geophysical Approaches for the Study of Early Agricultural Villages of Neolithic Thessaly, ARISTEIA, OPELLL, 2012 -2015

- GeoDiametris - Integrated Geoinformatics Technologies for Time-Lapse Monitoring of Land Pollution From the Disposal of Olive-Oil Mills Wastes, THALES, OPELLL, 2007 – 2013
- ArchaeoLandscapes Europe European Multiannual Project - European Commission - Directorate General Education and Culture, Programme B« Culture B», 2010 – 2015
- Observatory for the Cultural & Environmental Resources of the Municipality Of Neapolis, Lassithi
- Observatory for the Water Management of Eastern Mediterranean
- PROSODOL - Strategies to Improve and Protect Soil Quality from the Disposal of Olive Oil Mill's Wastes in the Mediterranean Region, LIFE07 ENV/GR/000280, 2009 - 2012
- TOWL: Time-Determined Ontology Based Information System for Real Time Stock Market Analysis, FP6-IST, 2006 – 2008
- MedSearch: Semantic Similarity for Knowledge Discovery in Medical Archives, FP6, 2006 – 2007
- BIOPATTERN: Computational Intelligence for Biopattern Analysis in Support of Ehealthcare, FP6-IST, 2004 - 2008

Research Assistant

- Intelligent Systems Laboratory, School of Electrical and Computer Engineering, Technical University of Crete (2005 - 2020)
- Laboratory of Geophysical - Satellite Remote Sensing and Archaeo-environment, Institute for Mediterranean Studies, IMS-FORTH (2010 - Now)

OTHER KNOWLEDGE

Computer & IT – Informatics – Geoinformatics

- Operating Systems: DOS/Windows UNIX/Linux
- Programming Languages: C, Java, C#/.NET, PHP, JSP, NodeJS, JavaScript, jQuery, Google Maps JS API, ArcGIS JS API, OpenLayers, Leaflet, HTML, XML, RDF, CSS, Bootstrap, VRML
- Database management: Microsoft SQL Server, MySQL, PostgreSQL, DB2, Oracle, NoSQL
- Image/Video processing: Adobe Photoshop, After Effects, Illustrator.
- Desktop tools/IDEs: IntelliJ IDEA, MS Visual Studio, Eclipse, NetBeans, MATLAB, Autodesk 3ds Max, Macromedia Studio, Adobe Flash, MS Office
- GIS tools: ArcGIS Desktop/Server, QGIS Desktop, GS Surfer

PUBLICATIONS

- 2019 **Chliaoutakis A., Chalkiadakis G.,** *AncientS-ABM: A Novel Tool for Simulating Ancient Societies*, In: Demazeau Y., Matson E., Corchado J., De la Prieta F. (eds) *Advances in Practical Applications of Survivable Agents and Multi-Agent Systems: The PAAMS Collection*. PAAMS 2019. Lecture Notes in Computer Science, vol 11523. Springer
- 2018 **A. Chliaoutakis, G. Chalkiadakis and A. Sarris,** *Employing Agent-based Modeling to Study the Impact of the Theran Eruption on Minoan Society*, In *Proceedings of the 3rd Conference on Computer Applications and Quantitative Methods in Archaeology - Crece (CAA-GR'18), Spreading Excellence in Computer Applications for Archaeology and Cultural Heritage*, Limassol, Cyprus, pp. 139-148, June 2018
- 2017 **Angelos Chliaoutakis and Georgios Chalkiadakis,** *Evolutionary Game-theoretic Modeling of Past Societies' Social Organization*, In *Proc. of the 14th European Conference on Artificial Life (ECAL-2017)*, Lyon, France, pp. 98-105, September 2017
- Doula, M.K., Kouloumbis, P., Sarris, A., Hliaoutakis, A., Papadopoulos, N. S., Kydonakis, A.** *Reuse of Sewage Sludge on Soil: Terms, Preconditions and Monitoring*. In Tzortzakis, N. (ed.): *Municipal Solid Waste: Management Strategies, Challenges and Future Directions*, NOVA SCIENCE, 2017

- 2016 **Angelos Chliaoutakis and Georgios Chalkiadakis**, *Evolutionary agent-based modeling of past societies' organization structure*, In Proc. of the 22nd European Conference on Artificial Intelligence, The Hague, The Netherlands, 29 August - 2 September 2016
- Angelos Chliaoutakis and Georgios Chalkiadakis**, *Agent-Based Modeling of Ancient Societies and their Organization Structure*, Journal of Autonomous Agents and Multi-Agent Systems (JAAMAS), Volume 30, Issue 6, pp. 1072-1116, 2016
- M.K.Doula, A.Hliaoutakis, N. S.Papadopoulos, A.Kydonakis, L.Argyriou and A.Sarris**, *Management and monitoring of agricultural waste disposal by local and regional authorities*. In Procs. of the 4th International Conference on Sustainable Solid Waste Management, Limassos, Cyprus, 23-25 June 2016
- A. Hliaoutakis, N. S.Papadopoulos, A.Kydonakis, L. Argyriou, M.K. Doula, A. Sarris**, *Web GIS-based application for agricultural areas management – the case of pistachio cultivation*. In Procs. of the 4th International Conference on Sustainable Solid Waste Management, Limassos, Cyprus, 23-25 June 2016
- M. K. Doula, A. Sarris, N. S. Papadopoulos, A. Hliaoutakis, A. Kydonakis, L. Argyriou, S.Theocharopoulos, Ch. Kolovos**, *A Software for soil quality conservation at organic waste disposal areas: The case of olive mill and pistachio wastes*. In European Geosciences Union-General Assembly, Vienna, Austria, 17-22 April 2016
- M. K. Doula , A. Sarris, A. Hliaoutakis, A. Kydonakis, N. S. Papadopoulos, L. Argyriou**, *Building a strategy for soil protection at local and regional scale - the case of agricultural wastes landspreading*, Journal of Environmental Monitoring and Assessment, Vol. 188(3), March 2016
- 2015 **Angelos Chliaoutakis and Georgios Chalkiadakis**, *Interpreting the Past through Agent-Based Modeling and GIS*, In Apostolos Sarris (eds.): Best Practices of Geoinformatic Technologies for the Mapping of Archaeolandscapes. Archaeopress Archaeology, 2015
- A. Chliaoutakis, G. Chalkiadakis and A, Sarris**, *An Application of Agent-Based Modelling and GIS in Minoan Crete*, In Proceedings of the 43rd Annual Conference on Computer Applications and Quantitative Methods in Archaeology, pp. 479-489, 31 March - 2 April 2015
- 2014 **A. Chliaoutakis and G. Chalkiadakis**, *Utilizing Agent-Based Modeling to Gain New Insights into the Ancient Minoan Civilization*, In Proceedings of AAMAS'14, pages 1371-1372, 5 - 9 May 2014
- M. Doula, V. Kavvadias, A. Sarris, P. Lolos, N. Liakopoulou, A. Hliaoutakis and A. Kydonakis**, *Assessing and monitoring soil quality at agricultural waste disposal areas-Soil Indicators*, European Geosciences Union, General Assembly 2014, Vienna, Austria, 27 April - 2 May 2014
- 2013 **Kleanthi Lakiotaki, Angelos Hliaoutakis, Serafim Koutsos & Euripides G.M. Petrakis**, *Recommending medical documents by user profile*, IEEE 13th International Conference on Bioinformatics and Bioengineering, (BIBE 2013), Chania, Crete, 10 - 13 November 2013
- Sarris, A., Chliaoutakis, A., Déderix, S. & Donati, J.C.**, *Reconstructing Archaeo-landscapes: Myth Versus Reality*, 6th Symposium of the Hellenic Society for Archaeometry: Craft-based Cultural Influences in the Mediterranean, Athens, 16-18 May 2013

- Kleanthi Lakiotaki, Angelos Hliaoutakis, Serafim Koutsos, Euripides G.M. Petrakis, Towards Personalized Medical Document Classification by Leveraging UMLS Semantic Network**, 2nd International Conference on Health Information Science, London, UK, 26 - 27 March 2013
- 2012 **Peraki R., Petrakis E., Hliaoutakis A.: An Information Retrieval System for Expert and Consumer Users**, IEEE 12th International Conference on Bioinformatics and Bioengineering, (BIBE 2012), November 11-13, 2012, Larnaca, Cyprus
- Chliaoutakis, A., Kydonakis, A., Sarris, A., Papadopoulos, N., Doula, M. & Kavvadias, V., Geo-Informatic Web-Based Applications for Olive Oil Mills' Wastes Disposal Areas Management**, Symposium on Olive Oil Mill Wastes and Environmental Protection, Chania, Crete, 16 – 18 October, 2012
- Chliaoutakis, A., Kydonakis, A., Doula, M., Kavvadias, V., Sarris, A., Theocharopoulos, S., Proposed Tool for Soil monitoring for Olive Oil Mills Wastes Disposal Areas**, 3rd International Conference on Industrial and Hazardous Waste Management, Chania, September 12-14, 2012
- Chliaoutakis A., Kydonakis A., Doula Maria K., Kavvadias Victor A., Sarris A., Papadopoulos N.: Geospatial Tools for Olive Oil Mills' Wastes (OOMW) Disposal Areas Management**, 32nd EARSeL Symposium Proceedings, Advances in Geosciences, Mykonos Island, Greece, 21 - 24 May 2012
- Aris Kydonakis, Angelos Chliaoutakis, Apostolos Sarris: A GIS Based Application for the Management of Monuments and Antiquities of Cyprus**, 32nd EARSeL Symposium Proceedings, Advances in Geoscience, Mykonos Island, Greece, 21 - 24 May 2012
- 2011 **Angelos Hliaoutakis, Euripides G.M.Petrakis: Automatic Term Identification by User Profile for Document Categorization in Medline**, 15th Intern. Conference in Applications of Natural Language to Information Systems (NLDB'2011), Vol. LNCS 6716, Springer-Verlag, Alicante, Spain, pp. 230-233, 28 - 30 June 2011
- Chliaoutakis, A. & Sarris, A., Monitoring System for the quality of Soils and problems related to soil pollution. 2nd Greek Workshop of LIFE-PROSODOL project, titled Olive Oil Mills Wastes Disposal and Environmental Protection**, Rethymno, 18th May 2011
- 2009 **Hliaoutakis A., Zervanou K., Petrakis E.: The AMTE_x Approach in the Medical Document Indexing and Retrieval Application**, Journal of Data and Knowledge Engineering (DKE), Volume 68, Issue 3, pp. 380-392, March 2009
- 2007 **Hliaoutakis A., Zervanou K., Petrakis E.: Medical Document Indexing and Retrieval: AMTE_x vs. NLM MMT_x**, 12th International Symposium for Health Information Management Research, Sheffield, UK, 18 - 20 July 2007
- 2006 **Euripides G.M. Petrakis, Giannis Varelas, Angelos Hliaoutakis, Paraskevi Raftopoulou: X-Similarity: Computing Semantic Similarity between Concepts from Different Ontologies**, Journal of Digital Information Management (JDIM), Vol. 4:4, pp. 233-238, December 2006
- Angelos Hliaoutakis, Kalliopi Zervanou, Euripides G.M. Petrakis, Evangelos Milios: Automatic Document Indexing in Large Medical Collections**, ACM International Workshop on Health Information and Knowledge Management (HIKM 2006), Arlington, VA, USA, November 11 2006

Angelos Hliaoutakis, Giannis Varelas, Euripides G.M. Petrakis, Evangelos Milios: *MedSearch: A Retrieval System for Medical Information Based on Semantic Similarity*, 10th ECDL European Conference on Research and Advanced Technology for Digital Libraries (ECDL'2006), pp. 512-515, Alicante, Spain, 17 - 22 September 2006

Angelos Hliaoutakis, Giannis Varelas, Epimenidis Voutsakis, Euripides G.M. Petrakis, Evangelos Milios: *Information Retrieval by Semantic Similarity*, Journal on Semantic Web and Information Systems (IJSWIS), Special Issue of Multimedia Semantics, Idea Group Inc., Vol. 3, No. 3, pp. 55-73, July/September 2006

Petrakis E., Varelas G., Hliaoutakis A., Raftopoulou P.: *Design and Evaluation of Semantic Similarity Measures for Concepts Stemming from the Same or Different Ontologies*, 4th Workshop on Multimedia Semantics (WMS'06), pp. 44-52, Chania, Greece, June 19-21, 2006