Europass Curriculum Vitae

Personal information

First name(s) / Surname(s)	**Kostas VASSILAKIS**
Address(es)	13, 1770 str, 71202, Heraklion, Crete, Greece
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E-mail	K.Vassilakis@teicrete.gr
Nationality	Greek

Work experience

Dates	May 2019 - present
Occupation or position held	**Professor of Informatics**
Main activities and responsibilities	Teaching courses on Information technology. Participating in various researches and in national and European projects.
Name and address of employer	Hellenic Mediterranean University, School of Engineering, Department of Electrical Engineering and Computer Engineering, Stavromenos, GR -71004, Heraklion, Crete, Greece
Type of business or sector	Educational (tertiary education, public sector)
Dates	September 1988 – May 2019
Occupation or position held	**Professor of Informatics**
Main activities and responsibilities	Teaching courses on Information technology. Participating in various researches and in national and European projects.
Name and address of employer	Technological Educational Institute (TEI) of Crete, , School of Engineering, Department of Electrical Engineering, Stavromenos, GR -71004, Heraklion, Crete, Greece
Type of business or sector	Educational (tertiary education, public sector)
Dates	From September 1983 to September 1988
Occupation or position held	**Computer Scientist, researcher**
Main activities and responsibilities	System and Network (LAN & WAN) administrator, research on Computer Science
Name and address of employer	Computer Science Institute, Foundation for Research and Technology - Hellas (FORTH), Vassilika Vouton, GR-71110, Heraklion, Crete, Greece
Type of business or sector	Research centre

Education and training

Dates	2004
Title of qualification awarded	**PhD**
Principal subjects	Medical Decision Support Systems. Title: Development of a decision support system for the diagnosis of epilepsies and epileptic syndromes in childhood.
Name and type of organisation providing education and training	University of Crete, Greece
Dates	1982
Title of qualification awarded	**MSc**
Principal subjects	Computer Science

Name and type of organisation providing education and training	Mc Gill University, Montreal, Canada
Dates	1978
Title of qualification awarded	**BSc**
Principal subjects	Mathematics
Name and type of organisation providing education and training	National and Kapodistrian University of Athens, Greece

Personal skills and competences

Mother tongue(s) — **Greek**

Other language(s)

Self-assessment

European level (*)

English

Understanding				Speaking				Writing	
Listening		Reading		Spoken interaction		Spoken production			
C1	Proficient user	C2	Proficient user	C2	Proficient user	C1	Proficient user	C2	Proficient user

(*) Common European Framework of Reference for Languages

Social skills and competences

Teaching (main job), Training (mostly seminars and courses for professionals and educators), Team working (participation in many projects), promotion of Free and Open Source Software in TEI of Crete.

Organisational skills and competences

- Head of Department of Social Work, School of Health Sciences
- Member of Quality Assurance Unit (QAU) of Hellenic Mediterranean University
- Member of Quality Assurance Unit (QAU) of TEI of Crete (2014- 2019)
- ERASMUS+ Departmental Coordinator for Electrical Engineering at the TEI of Crete (2015 - 2019).
- Director of School of Engineering, TEI of Crete (2010-2014).
- Member of the Administrative Council of the non-profit civil company "ACADEMIC NETWORK / GUnet – Greek Universities academic network" (2007-2011).
- Academic responsible for the Network Operations Center of TEI of Crete (2003-present).
- Head of Department of Sciences, TEI of Crete (2008-2010).
- Head of the Computer Science Division (academic periods: 1990-1, 1993-4, 2003-4, 2004-5 & 2005-6).
- Coordinator in projects

Additional information

- Current Research Interests: eLearning tele-services (systems & applications), Clinical Decision Support Systems (Knowledge Based Systems), Medical Informatics, Computer Networks.
- Current teaching courses: "Programming", "Computer Networks" (undergraduate), "ICT & Education" (postgraduate)
- Research labs: "Artificial Intelligence and Software Engineering Lab".
- Responsible for the promotion of distance learning infrastructure in TEI of Crete.
- Supervising various students' educational projects in TEI of Crete and in ERASMUS, SOCRATES, and LEODARDO programs (~5 per year).
- Member of the Internal Evaluation Group of Department of Sciences, TEI of Crete.
- Conference reviewer (IADIS, DLI, ArtsIT, CSEDU, TEMU, CBLIS, NHIBE etc).

Projects (participation / coordination):

- "ASAP training - Building effective drug prevention results across Europe, based on prevention systems analysis and widespread professional training", JUSTICE Programme, European Commission, 2019-2020, local **coordinator**.
- "ENhANCE - EuropeaN curriculum for fAmily aNd Community nurse", Erasmus+,KA2: Cooperation for innovation and the exchange of good practices - Sector Skills Alliances, 2018-2020, researcher.
- "Quality Assurance Unit of TEI of Crete", Operational Programme: "Education and Lifelong Learning" of the Greek National Strategic Reference Framework (NSRF) 2007-2013, European Social Fund (ESF), participation, 2009-2013.

- "Open courses of the Technological Educational Institute of Crete", Operational Programme: "Education and Lifelong Learning" of the Greek National Strategic Reference Framework (NSRF) 2007-2013, European Social Fund (ESF), participation, 2010-2013.
- "Integration of e-University Services", Operational Programme: "Digital Convergence" of the Greek National Strategic Reference Framework (NSRF) 2007-2013, European Social Fund (ESF), **coordinator**, 2009-2013.
- "Forest Fire Risk Management – ARTEMIS" project, European Commission, DG Environment, Nr. 07.0401/2007/482732/SUB/A3, researcher, 2008-2009.
- "Regional Innovation Pole of Crete", vertical action: Advanced Broadband Services & e-Business, (Measure 4.6, Action 4.6.1 of the Operational Program "Competitiveness" of the 3rd Greek Community Support Framework Program, as it was announced by the General Secretariat of Research and Technology of the Ministry of Development), researcher, 2007-2008.
- "Computational Intelligence for biopattern analysis in Support of e-Healthcare – BIOPATTERN", Information Society Technologies, 6th Framework Program, researcher, 2003-2007.
- "Archimedes II - Funding of research groups at TEI of Crete", Ministry of Education and Religious Affairs, Third Community Support Framework, researcher, 2005-2006.
- "Infrastructure exploitation to operate advance tele-education services in TEI of Crete", Information Society Program, Third Community Support Framework, **coordinator**, 2004-2006.
- "Equipment for the labs of Informatics in TEI of Crete", Information Society Program, Third Community Support Framework, **coordinator**, 2003.
- "Development of advanced telecommunication services and upgrade of network infrastructure at TEI of Crete", Information Society, Third Community Support Framework, technical manager, 2000-2002.
- "Greek University Network (GUNet)", Ministry of National Education and Religious Affairs, Second Community Support Framework, technical manager for the TEI of Crete, 1997-2000.
- "Communication network for the TEI of Crete", Ministry of National Education and Religious Affairs, Second Community Support Framework, technical manager, (1996–2000).
- "Self-assessment of Department of Science- TEI of Crete", Ministry of National Education and Religious Affairs, Second Community Support Framework, participant, 1999.
- "Department of applied informatics & multimedia", Ministry of National Education and Religious Affairs, Second Community Support Framework, syllabus development, adviser.
- "Department of medical systems technology", Ministry of National Education and Religious Affairs, Second Community Support Framework, syllabus development, adviser.
- Various E.C. educational programs (ERASMUS/SOCRATES, TEMPUS, NOW & COMETT), as participant and coordinator (ICP-G-2009/11 for 1993-4).

Publications:

Refereed journals

- Alexakis, G., Panagiotakis, S., Fragkakis, A., Markakis, E., & Vassilakis, K. (2019). Control of Smart Home Operations Using Natural Language Processing, Voice Recognition and IoT Technologies in a Multi-Tier Architecture. Designs, 3(3), 32.
- Spyros Panagiotakis, Koralia Papadokostaki, Kostas Vassilakis, Athanasios Malamos (2018). Towards a novel and LMS-free Pervasive Learning System exploiting the Experience API. EAI Endorsed Transactions on Creative Technologies, 5(16), doi=10.4108/eai.13-7-2018.156383.
- George Tsamis, Nikos Papadakis, Evangelos Tzirakis, Maria Rousaki, Evi Katsaraki, John Nikolopoulos, Emmanouela Panteri, Kostas Vassilakis (2018). Instant Evaluation of Teaching Methods and Students' Comprehension Level using Smart Mobile Technology. EAI Endorsed Transactions on Creative Technologies, 5(16), doi=10.4108/eai.13-7-2018.156384.
- Kostas Vassilakis, Orestis Charalampakos, Georgios Glykokokalos, Persefoni Kontokalou, Michail Kalogiannakis, Nikolas Vidakis (2018). Learning by playing: An LBG for the Fortification Gates of the Venetian walls of the city of Heraklion. EAI Endorsed Transactions on Creative Technologies, 5(16). doi=10.4108/eai.7-3-2019.156773.
- Chatzakis, I., Vassilakis, K., Lionis, C., & Germanakis, I. (2018). Electronic health record with computerized decision support tools for the purposes of a pediatric cardiovascular heart disease screening program in Crete. Computer methods and programs in biomedicine, 159, 159-166. doi: 10.1016/j.cmpb.2018.03.009
- Poulakakis, Y., Vassilakis, K., Kalogiannakis, M., & Panagiotakis, S. (2017). Ontological modeling of educational resources: a proposed implementation for Greek schools. Education and Information Technologies, 22(4), 1737-1755.
- Orfanakis, V., Papadakis, S., Kalogiannakis, M., Ampartzaki, M., & Vassilakis, K. (2016).

Digital student conference platform implementation: the case study of the "research project" course. Open Education: The Journal for Open and Distance Education and Educational Technology, 12(2), 5-23.

- Καλογιαννάκης Μ., Ορφανάκης Β., Παπαδάκης Σ., Αμπαρτζάκη Μ., Βασιλάκης Κ. (2016). Αξιοποίηση των Web 2.0 τεχνολογιών για τη διοργάνωση μαθητικών Συνεδρίων. Προκλήσεις και προοπτικές στη σύγχρονη εκπαιδευτική πραγματικότητα. Νέος Παιδαγωγός, 7, 11-126.

- Marakakis, E., Vassilakis, K., & Papadakis, N. (2010). Meta-rules and uncertain reasoning for diagnosis of epilepsy in childhood. Expert Systems with Applications, 37(10), 6979-6985.

- Marakakis, E., Vassilakis, K., & Papadakis, N. (2010). A Tool for Removing Unused Arguments from Logic Programs Automatically. International Journal on Artificial Intelligence Tools, 19(01), 39-63.

- Papachristos, D., Arvanitis, K., Vassilakis, K., Kalogiannakis, M., Kikilias, P., & Zafeiri, E. (2010). An Educational Model for Asynchronous E-Learning. A Case Study in a Higher Technology Education. International Journal of Advanced Corporate Learning (iJAC), 3(1), 32-36.

- Kalogiannakis, M., Alafodimos, C., Vassilakis, K., Papachristos, D., Papadakis, S., & Zafeiri, E. (2009). Adult Education and Lifelong Learning: A Greek Case Study. International Journal of Advanced Corporate Learning, 2(4).

- Papachristos, D., Sifaki, I., Kalogiannakis, M., Alafodimos, K., Vassilakis, K., Polimenakou, A. (2008). Education and Technology in enterprises in the light of innovation as their competitive advantage: The introduction of eLearning / eTeaching systems. Tourism Issues, 6, 71-91.

- Marakakis, E., Vassilakis, K., Kalivianakis E., & Micheloyiannis, S. (2005). An Expert System for Epilepsy with Uncertainty. Journal of Artificial Intelligence and Machine Learning, Special Issue on AI & Specific Applications, ISSN:1687-484.

- Liodakis, G., Kalogiannakis, M., Psarros, M., & Vassilakis, K. (2005). Building E-services for Learning and Teaching by the Exploitation of an LMS System. WSEAS Transactions on Circuits and Systems, 4(9), 792-798.

- Vassilakis, K. M., Vorgia, L., & Micheloyannis, S. (2002). Decision support system for classification of epilepsies in childhood. Journal of child neurology, 17(5), 357-362.

- Vassilakis, K., Michelogiannis, S. (2000). Classification of Epilepsies and Epileptic for children using computers. Encephalos, 2,73-83.

Refereed Conferences
- Vidakis, N., Barianos, A.-K., Trampas, A.-M., Papadakis, St. Kalogiannakis, M., & Vassilakis, K. (2019). Generating Education in-Game Data: The Case of an Ancient Theatre Serious Game. In B. McLaren, R. Reilly, S. Zvacek, & J. Uhomoibhi (Eds), Proceedings of the 11th International Conference on Computer Supported Education (CSEDU 2019), Vol 1, 36-43, Heraklion, Crete, Greece, 2-4 May, 2019

- Katis, E., Kondylakis, H., Agathangelos, G., & Vassilakis, K. (2018, June). Developing an Ontology for Curriculum and Syllabus. In European Semantic Web Conference (pp. 55-59). Springer, Cham.

- Smyrnakis A, Kalogiannakis M, Vassilakis K, (2018) Learning about dinosaurs through an electronic visual serious game. In 11th Pan-Hellenic and International Conference "ICT in Education".

- Vassilakis, K., Charalampakos, O., Glykokokalos, G., Kontokalou, P., Kalogiannakis, M., Vidakis, N. (2017). Learning History through Location-Based Games: The Fortification Gates of the Venetian walls of the city of Heraklion. In Design, Learning & Innovation (DLI) 2017, International Conference on.

- Tsamis, G., Papadakis, N., Tzirakis, E., Katsaraki, E., Rousaki, M., Nikolopoulos, J., Vasilakis, K. (2017). Real Time Evaluation of Education Methods via Smart Mobile Technology. In ArtsIT, Interactivity & Game Creation (ArtsIT), Intern. Conference on.

- Vidakis, N., Skalidaki, M., Konstantoulakis, K., Kalikakis, L., Kalogiannakis, M., Vassilakis, K. (2017). Training the mind: The GARDINER Platform. In Design, Learning & Innovation (DLI) 2017, International Conference on.

- Vassilakis, K., Makridis, J., Lasithiotakis, M. A., Kalogiannakis, M., Vidakis, N. (2017). Facilitating Learning in Isolated Places through an autonomous LMS. In Design, Learning & Innovation (DLI) 2017, International Conference on.

- Papadokostaki, K., Panagiotakis, S., Vassilakis, K., Malamos, A. (2017). Implementing an Adaptive Learning System with the Use of Experience API. In Design, Learning & Innovation (DLI) 2017, International Conference on.

- Fandaoutsakis, Y., Panagiotakis, Σ., Vourkas, M., Vassilakis, K., Vlisidis, A. (2016).

Procedure for modeling and analysis of energy consumption for data center space. In International Symposium on Ambient Intelligence and Embedded Systems (AmiEs) 2016.

- Kalochristianakis, M., Malamos, A., & Vassilakis, K. (2016, July). Color based subject identification for virtual museums, the case of fish. In Telecommunications and Multimedia (TEMU), 2016 International Conference on (pp. 1-5). IEEE.
- Poulakakis, Y., Vassilakis, K., Kalogiannakis, M., Panagiotakis, S. (2015). Metadata application profile for primary and secondary education in Greece. In International Conference in Open & Distance Learning (ICODL) 2015 8(4B). DOI: http://dx.doi.org/10.12681/icodl.74.
- Kalochristianakis, M., Panagiotakis, S., Kalogiannakis, M., & Vassilakis, K. (2013). Extensible and efficient e-University Solutions. In New Horizons in Industry, Business and Education (NHIBE) 2013 International Conference on (pp 161-168).
- Kalochristianakis, M., Panagiotakis, S., Vassilakis, K. (2012, July). Design considerations for developing e-University solutions based on open source software. In Telecommunications and Multimedia (TEMU), 2012 International Conference on (pp. 190-195). IEEE.
- Kalochristianakis, M., Varvarigos, E., Vassilakis, K., & Paraskevas, M. (2012, July). Considerations for successful enterprise information systems deployment—The case of the Greek School Network. In Service Systems and Service Management (ICSSSM), 2012 International Conference on (pp.118-122). IEEE. (DOI: 10.1109/ICSSSM.2012.6252204).
- Kalogiannakis, M., Panayotakis, S., Sifaki, E., Vassilakis K. (2011). Asynchronous distance learning at TEI of Crete. A case study of students' satisfaction from the service. In International Conference in Open & Distance Learning (ICODL) 2011, (pp. 294-302).
- Savvakis, K., Athanasaki C., Loulakakis, K., Malamos, A., Pachoulakis I., Vasilakis, K., Drakoulakis S., & Kaliakatsos J. (2011). Estimation of Workload for Academic Staff Members in T.E.I. of Crete. In New Horizons in Industry, Business and Education (NHIBE) 2011 International Conference on (pp. 87-97).
- Vassilakis, K., Panagiotakis, S., Kalogiannakis, M. (2011). E-Learning in Tertiary Education: Aspects on Service Evaluation. In New Horizons in Industry, Business and Education (NHIBE) 2011 International Conference on (pp. 73-79).
- Panagiotakis, S., Kalogiannakis M., Ripoll, N., & Vassilakis K. (2010). Towards Synchronous Tele-Education: Solutions, Trends and Experience Gained. In Proc. of the 3rd Annual Forum on e-Learning Excellence in the Middle East, 2010.
- Agiotakis, D., Panagiotakis, S., Vassilakis, K., Liodakis, G. (2009). Deploying advanced VOIP application in an academic environment. In Proc. of the 6th International Conference on New Horizons in Industry, Business and Education (NIHBE), 2009 (pp. 175-181).
- Vassilakis, K., Psaroudakis, N., Kalogiannakis, M. (2008 May). Asynchronous learning service evaluation: a case study at TEI of Crete. In Proc. of the 6th International Conference on Networked Learning, 2008 (pp. 821-828)
- Maglaras, D., Doerr, M., Ware, A., Vassilakis, K., & Papadourakis, G. (2008, February). A formal mechanism for analysis and re-implementation of legacy programs. In Proc. of the IASTED International Conference on Software Engineering, 2008 (pp. 92-97).
- Kalogiannakis, M., Vasillakis, K., Liodakis, G. (2007 November). Videoconference services in distant education: implementation & administration issues. In Proceedings of the 4th International Conference in Open and Distance Learning (ICODL), 2007 (pp. 365-372)
- Liodakis, G., Vardiambasis, I. O., Vassilakis, K., & Kaliakatsos, J. (2007, November). Meeting the demand for broadband communications engineers: The role of academia. In Meeting the Growing Demand for Engineers and Their Educators 2010-2020 International Summit, 2007 IEEE (Vol. 50, pp. 1-10). IEEE.
- Vassilakis K., Kalogiannakis M. (2007 August). Dissemination of innovation in an institution of tertiary education. In the Proceedings of the 5th International Conference on New Horizons in Industry Business and Education (NHIBE) 2007 (pp.37-41).
- Maglaras, D., Vassilakis, K. (2007 August). Authorized HTTP Redirections among Heterogeneous Application Environments, In Proceedings of the 5th International Conference on New Horizons in Industry Business & Education (NHIBE) 2007 (pp.297-299).
- Liodakis, G., Vassilakis, K., Vourkas, M., Kaliakatsos J. (2007 July). Administrative and Technical Issues and Processes for Synchronous e-learning Provision. In 8th International Conference on Computer Based Learning in Science (CBLIS)
- Marakakis, E., Kounali, H., Vassilakis, K. (2006). A method for removing unused arguments from logic programs. In the Proceedings of the 10th IASTED International Conference on Artificial Intelligence and Soft Computing (ASC), 2006 (pp. 197-202).
- Kalogiannakis, M., Vassilakis, K., Liodakis, G., & Psarros, M. (2006, July). Approaches for the exploitation of the e-class platform in tertiary education in Greece. In International Conference of Telecommunications and Multimedia (TEMU) 2006 (pp. 5-7).

- Marakakis, E., Vassilakis, K., Kalivianakis, E., Micheloyiannis, S. (2005) An Expert System for Epilepsy with Uncertainty. In ICGST Proceedings of the International Conference on Artificial Intelligence and Machine Learning 2006 (pp.72-78).
- Marakakis, E., Vassilakis, K., Kalivianakis, E., & Micheloyiannis, S. (2005). A medical decision support system with uncertainty: a case study for epilepsy classification. In IFMBE Proc (Vol. 11, No. 1, pp. 1727-1983).
- Liodakis, G., Papoutsis, J., Vardiabasis, I., Vassilakis, K., Antonidakis, E., (2005). SIP Protocol: Impact on Telematics Industry and Educational Aspects. In New Horizons in Industry Business and Education (NHIBE) 2005 (pp. 709-718).
- Vassilakis, K., Psarros, M., Kalogiannakis, M., (2005). Asynchronous tele-teaching at TEI of Crete. Primary results of an empirical research. In New Horizons in Industry Business and Education (NHIBE) 2005 (pp. 216-221).
- Liodakis, G., Vardiambasis, I. O., Glentis, G., & Vassilakis, K. Design and Development of an Academic Course in Convergent Communication Systems and Services. In Proceedings of WSEAS International Conference on Engineering Education (EE2005) (pp. 264-270).
- Kalogiannakis, M., Vassilakis, K., & Psarros, M. (2005, July). Teacher's role in a changing education. A case study of asynchronous education at Technological Education Institute (TEI) of Crete. In Proceedings of the 2nd international conference hands-on science: science in a changing education, HSci2005, Rethymno (Vol. 1316).
- Voutoufianakis, S., Vassilakis, K., Vorgia, L., Charoniti, A., Michelogiannis, S. (2001). Evaluation of a Decision Support System for Epilepsies in Childhood. In 4th Congress of the European Pediatric Neurology Society (EPNS), Germany, 2001.
- Vassilakis, K., Papadourakis, G., Michelogiannis, S. (2001). Decision support system for the Classification of Epilepsies and Epileptic Syndromes for children. In Proc. of the 4th International Conference on Neural Networks and Expert Systems in Medicine and Healthcare, 2001 (pp. 175-180).
- Vassilakis, K., Micheloyannis, S. (2000 May). Experience gained by the use of a computer diagnostic system for epilepsy. In 7th European conference on Epilepsy & Society, 2000.
- Vassilakis, K., Micheloyannis, S. (1997). Expert Systems for Epilepsy Diagnosis. In 15th PanHellenic Neurologist's Conference, 1997.
- Papadourakis, G., Vassilakis, K., Micheloyannis, S., Ware A. (1996). A Proposed Automatic Medical Diagnostic System Using Neural Networks and Expert Systems. In Proc. of the 2nd International Conference on Neural Networks and Expert Systems in Medicine and Healthcare, 1996 (pp. 256-263).

Books / Book chapters

- Vidakis N., Barianos A.K., Trampas A.M., Papadakis S., Kalogiannakis M., Vassilakis K. (2020) in-Game Raw Data Collection and Visualization in the Context of the "ThimelEdu" Educational Game. In: Lane H.C., Zvacek S., Uhomoibhi J. (eds) Computer Supported Education. CSEDU 2019. Communications in Computer and Information Science, vol 1220. Springer, Cham. https://doi.org/10.1007/978-3-030-58459-7_30
- Papadokostaki, K., Panagiotakis, S., Malamos, A., & Vassilakis, K. (2020). Mobile Learning in the Era of IoT: Is Ubiquitous Learning the Future of Learning? In Mobile Learning Applications in Early Childhood Education (pp. 252-280). IGI Global
- Tsampi, K., Panagiotakis, S., Hatzakis, E., Lakiotakis, E., Atsali, G., Vassilakis, K., ... & Malamos, A. (2018). Extending the Sana Mobile Healthcare Platform with Features Providing ECG Analysis. In Mobile Big Data (pp. 289-321). Springer, Cham.
- "Adapting multimedia clinical content to the terminal capabilities of wireless devices", Spyros Panagiotakis, Robert Agoutoglou, Kostas Vassilakis, chapter in "E-Healthcare Systems and Wireless Communications: Current and Future Challenge", Mohamed K. Watfa, under publication, 2011.
- "Empirical approaches on video-conference applications. Case study: TEI of Crete", M. Kalogianakis, K. Vassilakis, chapter in "Videoconference in the service of lifelong learning and distance education", P. Anastasiadis, Gutetenberg, Athens, 2008 (in Greek).
- "Approaches of Distance Learning in tertiary Education", K. Vassilakis, M. Kalogianakis, Atrapos, Athens, 2006 (in Greek).