

# Curriculum Vitae

**DAMIANOS GAVALAS**

PROFESSOR (Internet & Pervasive Computing Technologies)

DEPARTMENT OF PRODUCT & SYSTEMS DESIGN ENGINEERING  
UNIVERSITY OF THE AEGEAN

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## PERSONAL DATA

**Date of birth:** June 9, 1973  
**Address:** Konstantinoupoleos 1, Hermoupolis, Syros, GR-84100 Greece  
**Telephone:** +30 2281097136, +30 6944286356  
**E-mail** [dgavalas@aegean.gr](mailto:dgavalas@aegean.gr)  
**Web site:** <https://www.syros.aegean.gr/en/staff/professors-and-lecturers/professors/damianos-gavalas>



## PROFILE

I am currently employed as Professor in the Department of Product and Systems Design Engineering in the University of the Aegean (Head of Department in the period 2020-2022), Greece, and Adjunct Professor in Hellenic Open University. Over the past few years, I have conducted research in the fields of mobile/pervasive/distributed computing, extended reality, wireless adhoc networks, optimization algorithms, transportation systems, web technologies, mobile code, network and systems management, e/m-commerce. I have co-authored over 200 publications on the above subjects, published in international journals, book chapters and conference proceedings, which have received over 6000 citations (*h*-index: 37, *i10*-index: 96). I have received 3 best paper / young researcher awards for articles published in proceedings of international conferences. I have also co-authored three books (written in the Greek language) covering the thematic areas of wireless networks, distributed systems and mobile technologies, respectively. I have extensive teaching experience in both undergraduate and postgraduate level, in courses related to web design and development, web-based multimedia, hypermedia technologies, computer networks, electronic commerce, databases fundamentals, distributed systems, mobile & pervasive computing and wireless networking. I have supervised three completed PhD dissertations and dozens of final year and MSc projects. I have been ranked among the 100.000 top scientists across all fields - top 2% in the field "Networking & Telecommunications", based on my career-long research performance according to a recent survey of Stanford University (2022). I serve as editorial board member of Personal and Ubiquitous Computing (Springer), Information Technology & Tourism (Springer), Sensors (MDPI), while I have served in the boards of Journal of Network and Computer Applications (Elsevier) and mobile User Experience (Springer) in the past. I have co-chaired ACM MobileHCI'2023, IEEE WiMob 2020 as well as three international workshops. I have also served as TPC member in several (> 100) leading conferences and guest-editor in highly ranked journals in the fields of mobile and wireless communications. I regularly serve as external evaluator and review panel member for research proposals submitted to EIC Pathfinder Open, H2020 FET OPEN, Ministero dell'Istruzione dell'Università e della Ricerca (Italy), National Science Centre (Poland), Research Promotion Foundation (Cyprus), Greek General Secretariat for Research and Technology (Greece), National Strategic Reference Framework (Greece), etc. I have participated as a coordinator and/or key researcher in several research and development projects funded by Greek national and European funding bodies, including VR4all, REVEALING και ASTRE (Erasmus+), iDeliver, TouristHub and SocialPARK (GSRT), SMARTBUY (H2020-ICT-2015/687960), HoPE (EC/CIP7/621133), MOVESMART (EC/FP7/609026), eCOMPASS (EC/FP7/288094), VESPER (EC/IST-1999-10825), OPTIMIST (EC/IST-1999-12501).

## EDUCATION

- [Oct 1997 - Feb 2001] PhD in Electronics Engineering, Electronics Systems Engineering (E.S.E.) Dept, University of Essex, UK; Thesis title: "Mobile Software Agents for Network Monitoring and Performance Management".
- [Oct 1996- Jul 1997] MSc in "Telecommunications and Information Systems", Electronics Systems Engineering (E.S.E.) Dept, University of Essex, U.K. (Final grade: 75/100).
- [Oct 1991-Sep 1995] BSc in Informatics (Computer Science), Dept of Informatics, University of Athens, Greece. Selected numerous courses, in Signal Processing, Telecommunications and Computer Networks (GPA: 8.1/10).

## PROFESSIONAL POSITIONS

- [May 2019 - now] Professor (academic specialty: "Internet and Pervasive Computing Technologies"), Department of Product & Systems Design Engineering, University of the Aegean (Location: Hermoupolis, Syros, Greece). Head of Department since September 2020.
- Positions previously held in the same Department:  
(Jan 2017 – Apr 2019) Associate Professor
- [Dec 2013 – Jan 2017] Associate Professor (academic specialty: "Internet and Pervasive Computing Technologies"), Department of Cultural Technology & Communication, University of the Aegean (Location: Mytilene, Lesvos, Greece).
- Positions previously held in the same Department:  
(Sep 2007 – Nov 2012) Assistant Professor  
(Sep 2004 – Aug 2007) Adjunct Assistant Professor.
- [Oct 2010 - now] Coordinator and Adjunct Professor: Hellenic Open University, Faculty of Sciences and Technology, MSc program in "Engineering of Pervasive Computing Systems".
- [Jan 2011-May 2011] Visiting Professor, Cyprus University of Technology, Communication & Internet Studies Department.
- [Mar 2003- Aug 2004] Adjunct Lecturer (specialty: "Internet Technology & Programming"), University of the Aegean, Department of Product & Systems Design Engineering (Location: Hermoupolis, Syros, Greece).
- [Nov 2002 – Feb 2005] Adjunct Lecturer, Computer Science Dept, Athens Technological Educational Institution, Athens, Greece.
- [Feb 2003- Jun 2003] Instructor, Public Professional Training Institution. Greece: (a) Specialty: "Technician of Computer Science Applications with Multimedia", Course: "Introduction to Computer Science", (b) Specialty: "Technician of Systems Management and Intranet/Internet Services Provision", Course: "Network Infrastructure Application Development using TCP/IP".
- [Jan 2002 – Jun 2003] Analyst-Programmer, LogiCommIT, Athens, Greece: specification, design and implementation of an administrative tool covering the IT needs of vehicle garage enterprises. DB design in SQL Server, implementation in VB.NET.
- [Sep 2001 – Mar 2003] Analyst-Programmer, Hellenic Air Force, Greece: served in Tripolis Training Camp IT centre as DB and NT server/workstation administrator and in Greek Pentagon's IT centre as DB applications developer.

- [Mar 2001- Sep 2001] Research Engineer, Development Programs Department, Intracom S.A., Greece.
- [Oct 1997 - Dec 2000] Teaching assistant, E.S.E. Dept, University of Essex, UK. Courses: (a) Programming introductory course (using C++), Level 2, (b) Networks laboratory experiments (TCP/IP protocol analysis, network design, Java networking applications), MSc in Computer Information Networks.
- [Feb 1996 - May 1996] Seminars instructor, University of Athens, Greece: seminars on network simulation and HTML page development, attended by graduates.
- [Feb 1995 - Sep 1996] Laboratory demonstrator, Dept of Informatics, University of Athens, Greece. Course: Network Design (also prepared laboratory documentation).
- [Oct 1995 - May 1996] Seminars instructor, Dept of Informatics, University of Athens, Greece: seminars on the use of CACI COMNET 1.1 network simulation package.

## RESEARCH PROJECTS

- [Nov 2022 - Oct 2025] Erasmus+ VR4all (“Immersive VR technologies as a means to empathizing disabled users in the design-for-all process”), Call 2022, Round 1, KA220-HED - Cooperation partnerships in higher education.

Project code: 2022-1-PT01-KA220-HED-000090242

Website: ...

Funding body: EU.

Project promoter: University of the Aegean, Department of Product and Systems Design Engineering.

Project budget: €400.000. University of the Aegean budget: €99.000.

Role in the project: **Principal Investigator.**

- [Feb 2022 - Jul 2024] Erasmus+ REVEALING (“REalisation of Virtual rEality LEARNING Environments (VRLEs) for Higher Education”), Call 2021 Round 1 KA2 - KA220-HED - Cooperation partnerships in higher education.



Project code: 2021-1-DE01-KA220-HED-000032098

Website: <https://revealing-project.eu/>

Funding body: EU.

Project promoter: University of the Aegean, Department of Product and Systems Design Engineering.

Project budget: €284.319. University of the Aegean budget: €68.585.




Role in the project: **Principal Investigator.**

- [Mar 2022 - Feb 2023] i-Deliver (“Delivery platform for delivering goods as-a-service”)



Website: <https://i-deliver.gr/en/home/>

Funding body: General Secretariat for Research and Technology (GSRT), Single RTDI State Aid Action "Research-Create-Innovate" support measure, Operational Programme Competitiveness, Entrepreneurship and Innovation 2014-2020 (EPAnEK).

	<p>Project promoter: Computer Technology Institute and Press "Diophantus", Patras, Greece.</p> <p>Project budget: €689.140.</p> <p>Role in the project: Senior researcher.</p>
[Aug 2021 - May 2023]	<p>"Digital Transformation of the South Aegean in Culture and Tourism", within the framework of the 'Regional Excellence' program.</p> <p>Funding body: Operational Programme Competitiveness, Entrepreneurship and Innovation 2014-2020 (EPAnEK), Action "Support of Regional Excellence".</p> <p>Project promoter: University of the Aegean, Department of Product and Systems Design Engineering</p> <p>Role in the project: Senior researcher.</p>
<div data-bbox="186 703 446 997">  <p>[Dec 2019 - Dec 2022]</p> </div>	<p>"Non-Verbal Communication in Immersive Virtual Reality Environments"</p> <p>Website: <a href="https://metavr.aegean.gr/">https://metavr.aegean.gr/</a></p> <p>Funding body: Hellenic Foundation for Research and Innovation (HFRI)</p> <p>Project promoter: University of the Aegean, Department of Product and Systems Design Engineering</p> <p>Project budget: €168.399.</p> <p>Role in the project: Senior researcher.</p>
<div data-bbox="186 1018 446 1438">  <p>[Nov 2019 - Oct 2021]</p> </div>	<p>Erasmus+ ASTRE ("Automatic System for TRacking E-Learners"), Call 2019 Round 1 KA2 - Cooperation for innovation and the exchange of good practices, KA204 - Strategic Partnerships for adult education.</p> <p>Project code: <a href="https://ec.europa.eu/erasmus-plus/projects/2019-1-ES01-KA204-065644">2019-1-ES01-KA204-065644</a></p> <p>Website: <a href="http://trackingelearners.eu/">http://trackingelearners.eu/</a></p> <p>Funding body: EU.</p> <p>Project promoter: University of the Aegean, Department of Product and Systems Design Engineering.</p> <p>Project budget: €203,650. University of the Aegean budget: €27,027.</p> <p>Role in the project: <b>Principal Investigator.</b></p>
<div data-bbox="186 1459 462 1858">  <p>[Dec 2018 - Jul 2021]</p> </div>	<p>Mouseion Topos</p> <p>Website: <a href="http://www.mouseion-topos.gr/en">http://www.mouseion-topos.gr/en</a></p> <p>Funding body: General Secretariat for Research and Technology (GSRT), Single RTDI State Aid Action "Research-Create-Innovate" support measure, Operational Programme Competitiveness, Entrepreneurship and Innovation 2014-2020 (EPAnEK).</p> <p>Project promoter: University of the Aegean, Department of Product and Systems Design Engineering (co-ordinator partner).</p> <p>Project budget: €852,200. University of the Aegean budget: €299.400.</p> <p>Role in the project: Senior researcher.</p>

[Jul 2018 – Sept 2019] “Social Interaction in Virtual Reality Environments”

Funding body: “Support Researchers with Emphasis on Young Researchers”, Operational Programme “Human Resources Development, Education and Life Lifelong Learning”, co-financed by the European Union (European Social Fund) and Greek national funds. 242 proposals (among 2815 in total) have been funded (8.6%).

Project promoter: University of the Aegean, Department of Product and Systems Design Engineering.

Project budget: €62,650.

Role in the project: **Principal Investigator.**

[Aug 2018 – Jan 2021]



SocialPARK (“An integrated Parking-as-a-Service platform for facilitating search of vacant parking lots based on crowd-sourced Information”)

Funding body: General Secretariat for Research and Technology (GSRT), Single RTDI State Aid Action “Research-Create-Innovate” support measure, Operational Programme Competitiveness, Entrepreneurship and Innovation 2014-2020 (EPAnEK).

Project promoter: University of Patras, Department of Computer Engineering & Informatics (co-ordinator partner).

Project budget: €629,811. University of Patras budget: €225,281.

Role in the project: Research associate.

[Jun 2018 – Dec 2020]



TouristHub (“Aggregation and provision of integrated tourist and travel services”)

Funding body: General Secretariat for Research and Technology (GSRT), Single RTDI State Aid Action “Research-Create-Innovate” support measure, Operational Programme Competitiveness, Entrepreneurship and Innovation 2014-2020 (EPAnEK).

Project promoter: University of the Aegean, Department of Product and Systems Design Engineering (co-ordinator partner).

Project budget: €622,494. University of the Aegean budget: €173,151.

Role in the project: **Principal Investigator & Co-ordinator.**

[Jun 2018 – May 2020]



INVESTMENT (“INnovatiVe E-Services for booSting Tourist economy and Multimodal public Transportation”)

Website: <http://investment.upatras.gr/>

Funding body: Cooperation Programme “INTERREG V-A Greece-Italy 2014-2020”, Priority Axis: 3 - Cross Border and Sustainable Transport System.

Project promoter: University of Patras, Department of Computer Engineering & Informatics (co-ordinator partner).

Project budget: €857,053. University of Patras budget: €298,082.

Role in the proposal: Conceived the main research objectives; led the authoring, preparation and submission of the proposal.

Role in the project: Research associate; **technical co-ordinator.**

[Jan 2016 – Sep 2018] H2020-ICT-2015/687960 SMARTBUY (“Enhanced Buying Experiences in Smart Cities”).



Website: <http://smartbuy.tech/>

Funding body: Horizon 2020 Programme of EU.

Project promoter: Computer Technology Institute and Press "Diophantus", Patras, Greece.

Project budget: €1.42m. CTI budget: €383,750.

Role in the project: **Technical & Quality Manager.**

[Ιούν 2014 – Μάι 2017] CIP7-621133 HoPE (“Holistic Personal public Eco-mobility”).



Website: <http://hope-eu-project.eu/>

Funding body: ICT Policy Support Programme of EU.

Project promoter: Computer Technology Institute and Press "Diophantus", Patras, Greece.

Project budget: €3.6m. CTI budget: €284,930.

Role in the project: Research associate.

[Nov 2013 - Oct 2016] FP7-609026 MOVESMART (“Renewable Mobility Services in Smart Cities”).



Website: <http://movesmartfp7.iti.gr/>

Funding body: 7<sup>o</sup> Framework Programme of EU.

Project promoter: Computer Technology Institute and Press "Diophantus", Patras, Greece.

Project budget: €3.2m.

Role in the project: Research associate.

[Sep 2012 - Dec 2014] “Development of Advanced P2P Protocols for Mobile and Sensor Networks Based on Synthetic Network Coordinate Systems” (P2PCOORDS).

Funding body: Research programme “Archimedes III”; funding: Operational Programme “Education and Lifelong Learning”, co-funded by the European Social Fund (ESF).

Project promoter: Department of Applied Informatics and Multimedia, Technological Institution of Crete, Greece.

Project budget: €82,500.

Role in the project: Research associate.

[Mar 2012 - Jun 2015] “Data Communication and Processing in Wireless Sensor and Sensor/Actuator Networks” (PROSENS).

Funding body: Research programme “Archimedes III”; funding: Operational Programme “Education and Lifelong Learning”, co-funded by the European Social Fund (ESF).

Project promoter: Computer Science Dept, Technological Institution of Athens, Greece.

Project budget: €83,000.

Role in the project: Research associate.



[Nov 2011 - Dec 2014] FP7-288094 eCOMPASS (“eco-Friendly Urban Multi-Modal Route Planning Services for Mobile Users”).



Website: <http://www.ecompass-project.eu/>

Funding body: 7<sup>o</sup> Framework Programme of EU.

Project promoter: Computer Technology Institute and Press "Diophantus", Patras, Greece (co-ordinator partner).

Project budget: €4.078.910.

Role in the proposal: Conceived the main research objectives; led the authoring, preparation and submission of the proposal.

Role in the project: Research associate; deputy co-ordinator.

[Dec 2007 – Jan 2009] “Development of interactive multimedia applications to promote the Natural History Museum of Axioupolis, emphasizing on the Fauna section”



Website: <http://axiupolis.aegean.gr/>

Funding body: European Initiative INTERREG III, Strand A': Greece-FYROM.

Project promoter: Department of Cultural Technology and Communication, University of the Aegean, Greece (subcontractor of the Natural History Museum of Axioupolis, Kilkis county, Greece).

Project budget: €102,521

Role in the project: **Technical co-ordinator**, programmer.

[Jan 2007 – Mar 2008] “Development of a digital multimedia guide of the Municipality of Mytilene for portable devices”



Funding body: European Initiative Leader PLUS (2000-2006).

Project promoter: Department of Cultural Technology and Communication, University of the Aegean, Greece.

Project budget: €64,557

Role in the project: **Technical co-ordinator**.

[Oct 2006 - Feb 2008] “Software Applications in Children Interactive TV - MPEG21 standard”

Funding body: General Secretariat for Research and Technology (GSRT), Hellenic Ministry of Development.

Project promoter: Department of Cultural Technology and Communication, University of the Aegean, Greece (co-ordinator partner)

Project budget: €486,000.

Role in the project: Senior researcher.

[Jun 2006 - Dec 2006] “Faith Paths – Digital Patrology”

Funding body: European Initiative INTERREG IIIA Border Greece - Cyprus, co-funded by EU (75%) and national funds (25%).

Project promoter: Department of Cultural Technology and Communication, University of the Aegean, Greece (co-ordinator partner).

Role in the project: Programmer.

- [Feb 2004 – Aug 2006] “Communication Protocols: Design, Analysis and Applications in Mobile, Parallel and Distributed Computing Environments” (PROTEAS)  
 Funding body: Research programme Archimedes, Operational Programme “Education and Lifelong Learning”, co-funded by the European Social Fund (ESF).  
 Project promoter: “Parallel & Distributed Computing” research group, Department of Computer Science, Technological Educational Institution of Athens, Greece.  
 Role in the project: Senior researcher.
- [Mar 2001 - Aug 2001] IST-1999-10825 VESPER (Virtual Home Environment for Service Personalization and Roaming Users).  
 Funding body: IST Programme of EU.  
 Project promoter: Intracom S.A., Greece.  
 Role in the project: Senior researcher.
- [Oct 1997 - Feb 2001] “Mobile Agents for Network & Systems Management”  
 Funding body: Fujitsu Telecommunications Europe Ltd. (FTEL).  
 Project promoter: Electronic Systems Engineering Department, University of Essex (UK).  
 Role in the project: Researcher.
- [Jul 2000 - Sep 2000] IST-1999-12501 OPTIMIST (Optical Technologies in Motion for the IST Programme).  
 Funding body: IST Programme of EU.  
 Project promoter: Electronic Systems Engineering Department, University of Essex (UK).  
 Role in the project: Researcher.

## **DEVELOPMENT PROJECTS**

- [Jun 2012 - Feb 2014] “Web System for the Management and Support of the University of the Aegean Graduates (AlumniNet)”, funding bureau: Operational Programme 'Digital Convergence' and the European Regional Development Fund (ERDF); budget: € 168K. [*Co-ordinator*]

## **DISTANCE EDUCATION PROJECTS**

- [Sep 2013 - May 2015] Lifelong Learning Programme of the University of the Aegean on “Mobile Technologies”. Funding bureau: Operational Programme “Education and Lifelong Learning”, co-funded by EU and national funds. The program comprises 6 Teaching Units including 32 weekly sessions [*Co-ordinator*]
- [July 2014 – July 2015] “Developmental Actions of the Educational Material and Educational Methodology Laboratory to support the educational programme of the Hellenic Open University”. Funding bureau: Operational Programme “Education and Lifelong Learning” of the National Strategic Reference Framework (NSRF) (2007-2013).

- [Mar 2012 - Jan 2013] “Hellenic Open University: Development of educational content for new curriculums”. Funding bureau: Operational Programme “Education and Lifelong Learning” of the National Strategic Reference Framework (NSRF) (2007-2013). Coordinator, author and evaluator in the development of educational content for distance learning.
- [Jan 2006 – July 2006] Med Net'U Project: Development of distance education content in “Database Systems” (6 talks) to be used by the Network of Università Ovunque NETTUNO (Italian Distance University), under the framework of EUMEDIS Programme (Euro-Mediterranean Information Society), funded by the EC.

## TEACHING EXPERIENCE

### Department of Product & Systems Design Engineering, University of the Aegean, Greece

- Undergraduate courses:
  - Informatics, 1<sup>st</sup> semester (2016-2023)
  - Studio 7a – Interactive Systems Design, 9<sup>th</sup> semester (2017-2020, 2022-23)
  - Design and Programming of Mobile Applications, 8<sup>th</sup> semester (2016-2020)
  - Design and Programming in the World Wide Web, 8<sup>th</sup> semester (2017-2020)
  - Introduction to Computer Science, 1<sup>st</sup> semester (2003-2004)
  - Lab of Applied Computing, 2<sup>nd</sup> semester (2002-2003)
  - Internet Technology & Programming, 6<sup>th</sup> semester (2002-2004)
- MSc in “Design of Interactive and Industrial Products & Systems”:
  - Programming Environments in Design (2003-2004)

### Department of Cultural Technology & Communication, University of the Aegean, Greece

- Undergraduate courses:
  - Networking Multimedia I, 3<sup>rd</sup> semester (2004-2010)
  - Networking Multimedia II, 4<sup>th</sup> semester (2008-2010, 2011-2013)
  - Digital Content & e-Commerce, 4<sup>th</sup> semester (2008-2009)
  - Networking Multimedia III, 5<sup>th</sup> semester (2005-2006, 2007-2008)
  - Object-Oriented Programming I, 5<sup>th</sup> semester (2010-2013)
  - Hypermedia Technology, 6<sup>th</sup> semester (2004-2008)
  - Computer Networks, 6<sup>th</sup> semester (2005-2010)
  - World Wide Web Technologies, 7<sup>th</sup> semester (2004-2010)
  - Technologies and Programming in the World Wide Web (2011-2013)
  - Content Management Systems in the World Wide Web, 7<sup>th</sup> semester (2010-2013, 2015-2016)
  - Internet Technologies, 2<sup>nd</sup> semester (2013-2014, 2015-2016)
  - Design and Development of Internet Applications, 3<sup>rd</sup> semester. (2013-2014, 2015-2016)
  - World Wide Web Programming, 6<sup>th</sup> semester (2013-2014)
  - Mobile Technologies, 7<sup>th</sup> semester (2013-2014)
  - Supervision of numerous final-year projects
- MSc in “Cultural Informatics”:
  - E-Commerce (2004-2005)
  - Museum Information Systems (2005-2006, 2007-2008)

- Interaction Design (2006-2011)
- Multimedia Technologies (2006-2010)
- User Interface Design (2008-2009)
- Mobile Technologies (2015-2017)
- Supervision of numerous MSc dissertations

#### **Hellenic Open University, Greece**

- MSc in “Engineering of Pervasive Computing Systems” - “Software and Networking Technologies” module (2010-2015). Theme topics (equivalent to MSc term courses):
  - Pervasive Computing
  - Distributed Systems
  - Wireless Networks

#### **Department of Communication and Internet Studies, Cyprus University of Technology, Cyprus**

- Undergraduate courses:
  - Introduction to Multimedia, 4<sup>th</sup> semester (2010-2011)
  - Content Management in the World Wide Web, 6<sup>th</sup> semester (2010-2011)

#### **Department of Computer Science, Athens Technological Educational Institution, Athens, Greece**

- Software Development Methodologies, 3<sup>rd</sup> semester (2003-2005)
- Internet Technology & Programming, 6<sup>th</sup> semester (2002-2005)

#### **Electronic Systems Engineering, University of Essex, U.K.**

- Undergraduate courses:
  - Introduction to programming (C++), 3<sup>rd</sup> semester, laboratory (1997-2001)
- MSc in “Computer Networks”:
  - Networks Lab (1997-2001)

### **RESEARCH INTERESTS**

- Current:
  - Pervasive computing systems (mobile tourism, mobile recommender systems, mobile/pervasive games)
  - Augmented / Mixed / Virtual Reality
  - Distributed and mobile computing
  - Wireless sensor networks
  - Optimization algorithms
  - Intelligent Transportation Systems
  - Mobile Internet and mobile web technologies
- Past:
  - Mobile ad-hoc networks
  - Electronic and mobile commerce
  - Interactive and personalized web TV
  - Mobile code, mobile agents, middleware software technologies
  - Distributed network and systems management

### **SUMMARY OF RESEARCH OUTPUT**

- 3 books (co-authored)

- 3 dissertations
- 11 editorials in special issues
- 67 articles in international journals (peer reviewed)
- 9 book chapters in edited volumes (peer reviewed)
- 4 chapters in edited encyclopedias (peer reviewed)
- 110 articles in international conference proceedings (peer reviewed)
- 4 articles in international conference (abstract submission)
- 4 articles in national conference proceedings
- ~6000 citations

## PUBLICATIONS

### Dissertations

- [D1] **D. Gavalas**, “Mobile Software Agents for Network Monitoring and Performance Management”, *PhD Thesis*, Electronics Systems Engineering (E.S.E.) Dept, University of Essex, UK, July 2001.
- [D2] **D. Gavalas**, “Optical Network Design: Virtual Topology and Wavelength Assignment Optimisation using Linear Programming”, *MSc Thesis*, Electronics Systems Engineering (E.S.E.) Dept, University of Essex, UK, July 1997.
- [D3] **D. Gavalas**, “Simulation of Computer Networks”, *Final Year Project*, Department of Informatics, University of Athens, Greece, September 1995.

### Editorials

- [E1] R. Sharma, **D. Gavalas** and S-L. Peng, “Smart and Future Applications of Internet of Multimedia Things (IoMT) Using Big Data Analytics”, Editorial for the special issue *Sensors* (**indexed in Thomson’s ISI Web of Knowledge**), 22(11), 4146, May 2022.
- [E2] **D. Gavalas**, S. Sylaiou, V. Kasapakis and, E. Dzardanova, “Virtual and Mixed Reality in Culture and Heritage”, Editorial for the special issue of *Personal and Ubiquitous Computing* (**indexed in Thomson’s ISI Web of Knowledge**), Springer Science, *in press*.
- [E3] **D. Gavalas**, M. Stavrakis, P. Chatzimisios, Z. Cao, X. Zheng, “Wireless Systems and Networks in the IoT”, Editorial for the special issue of *Sensors* (**indexed in Thomson’s ISI Web of Knowledge**), 20(8), 2279, April 2020.
- [E4] F. Gasparetti, **D. Gavalas**, S. Ilarri, F. Ricci, Z. Yu, “Mining Social Networks for Local Search and Location-Based Recommender Systems”, Editorial for the special issue of *Personal and Ubiquitous Computing* (**indexed in Thomson’s ISI Web of Knowledge**), Springer Science, 23(2), pp, 179-180, April 2019.
- [E5] F. Cena, F. Gasparetti, **D. Gavalas**, S.Y. Ho, B. Liu and D. Yang, “Advances in Personalized Mobile Services”, Editorial for a special issue of *Mobile Information Systems* (**indexed in Thomson’s ISI Web of Knowledge**), Article ID: 6047696, Hindawi, 2018.
- [E6] **D. Gavalas**, P. Nicopolitidis, A. Kameas, C. Goumopoulos, P. Bellavista, L. Lambrinos and B. Guo, “Smart Cities: Recent Trends, Methodologies, and Applications”, Editorial for a special issue of *Wireless Communications and Mobile Computing* (**indexed in Thomson’s ISI Web of Knowledge**), Hindawi, 2017.
- [E7] **D. Gavalas**, V. Kasapakis, B. Guo, “Mobile and Pervasive Games”, *Editorial* for a special issue of *Personal and Ubiquitous Computing* (**indexed in Thomson’s ISI Web of Knowledge**), Springer Science, 19(3), 493-494, July 2015.
- [E8] **D. Gavalas**, M. El Choubassi, A. Garcia Crespo, P. Bellavista, “Mobile and Pervasive Applications in Tourism”, *Editorial* for a special issue of *Pervasive and Mobile Computing* (**indexed in Thomson’s ISI Web of Knowledge**), Elsevier Science, 18, pp. 1-3, March 2015.

- [E9] M. Obaidat, P. Nicopolitidis and **D. Gavalas**, “Pervasive Computing Systems”, *Editorial* for a special issue of *Human-centric Computing and Information Sciences*, Springer Science, March 2013.
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- [C5] A. Nikolarakis, P. Koutsabasis and **D. Gavalas**, "A location-based mobile guide for gamified exploration, audio narrative and visitor social interaction in cultural exhibitions", *Proceedings of the 24<sup>th</sup> International Conference on Human-Computer Interaction (HCI INTERNATIONAL 2022)*, CCIS 1582, Springer-Verlag, C. Stephanidis et al. (Eds.), pp. 247-255, Virtual Conference, June 26 - July 1, 2022.
- [C6] V. Kasapakis, E. Dzardanova, V. Nikolakopoulou, S. Vosinakis, I. Xenakis, **D. Gavalas**, "Exploring Non-Verbal Cues and User Attention in IVR with Eye Tracking Technologies", *Proceedings of the 14<sup>th</sup> International Workshop on Immersive Mixed and Virtual Environment Systems (MMVE 2022)*, pp. 47-50, Athlone, Ireland, June 14, 2022.
- [C7] E. D'Angelo, C. Formica, N. Dimopoulou, N. Kazantzidou, A. Protosaltis, A. Schorer, **D. Gavalas**, A. Kostas, G.A. Makrides, R. Kyriellou, L. Capablanca Francés, R. Belda Anaya, "The Voice of e-Learners", *Proceedings of the 16<sup>th</sup> Annual International Technology, Education and Development Conference (INTED'2022)*, pp. 3477-3483, Online Conference. March 7-8, 2022.
- [C8] V. Kasapakis, E. Dzardanova, V. Nikolakopoulou, S. Vosinakis, I. Xenakis, **D. Gavalas**, "Social Virtual Reality: Implementing Non-Verbal Cues in Remote Synchronous Communication", *Proceedings of the 18<sup>th</sup> International Conference on Virtual Reality and Mixed Reality (EuroXR 2021)*, LNCS 13105, Springer-Verlag, Bourdot P., Alcañiz Raya M., Figueroa P., Interrante V., Kuhlen T.W., Reiners D. (Eds.), pp. 152-157, Virtual Conference, November 24-26, 2021 (acceptance ratio ~36%).
- [C9] P. Chatzina and **D. Gavalas**, "Route Planning and Navigation Aid for the Visually Impaired and Blind", *Proceedings of the 14<sup>th</sup> International Conference on Pervasive Technologies Related to Assistive Environments (PETRA'2021)*, pp. 439-445, Virtual Conference, June 29-July 1, 2021.
- [C10] A. Protosaltis, A. Schorer, **D. Gavalas**, A. Kostas, G.A. Makrides, R. Kyriellou, N. Dimopoulou, N. Kazantzidou, E. D'Angelo, C. Formica, P. Díaz-García, J. Gisbert-Payá, "Tracking, a Necessity to Improve Online Learning", *Proceedings of the 15<sup>th</sup> Annual International Technology, Education and Development Conference (INTED'2021)*, pp. 7082-7088, Virtual Conference, March 8-9, 2021.
- [C11] M. Stavrakis, **D. Gavalas**, P. Koutsabasis and S. Vosinakis, "User Experience Requirements and Interface Design for the TouristHub Trip Planning Platform", *Proceedings of the 22<sup>nd</sup> International*

- Conference on Human-Computer Interaction (HCII'2020)*, LNCS 12202, Springer-Verlag, Marcus A. Rosenzweig E. (eds.) pp. 659–675, Copenhagen, Denmark, July 19-24, 2020.
- [C12] M. Stavarakis, **D. Gavalas**, P. Koutsabasis and S. Vosinakis, "TouristHub: User Experience and Interaction Design for Supporting Tourist Trip Planning", *Proceedings of the 2020 IEEE 10<sup>th</sup> International Conference on Intelligent Systems (IS'2020)*, pp. 370-379, Varna, Bulgaria, June 26-28, 2020.
- [C13] L. Bourg, T. Chatzidimitris, I. Chatzigiannakis, **D. Gavalas**, K. Giannakopoulou, V. Kasapakis, C. Konstantopoulos, D. Kypriadis, G. Pantziou, C. Zaroliagis, "Enhanced Buying Experiences in Smart Cities: The SMARTBUY approach", *Proceedings of the 2019 European Conference on Ambient Intelligence (AmI'2019)*, LNCS Vol. 11912, Springer-Verlag, Chatzigiannakis I., De Ruyter B., Mavrommati I. (eds), pp. 108-122, Rome, Italy, 13-15 November 2019 (acceptance ratio ~40%).
- [C14] T. Chatzidimitris, **D. Gavalas**, V. Kasapakis, D. Kypriadis, C. Konstantopoulos, G. Pantziou, C. Zaroliagis, "A Location History-Aware Retail Product Recommender System", *Proceedings of the 15<sup>th</sup> International Conference on Wireless and Mobile Computing, Networking and Communications (WiMOB'2019)*, Barcelona, Spain, 21-23 October 2019 (acceptance ratio ~28%).
- [C15] D. Kypriadis, C. Konstantopoulos, G. Pantziou and **D. Gavalas**, "An Efficient Scheme for Dynamic Car Relocation in Free-Floating Car-Sharing Systems", *Proceedings of the 2019 IEEE International Smart Cities Conference (ISC2 2019)*, pp. 527-530, Casablanca, Morocco, 14-17 October 2019, (acceptance ratio ~43%).
- [C16] **D. Gavalas**, C. Konstantopoulos, G. Pantziou and N. Vathis, "An Efficient Heuristic for the Vacation Planning Problem", *Proceedings of the 10<sup>th</sup> IEEE Annual Ubiquitous Computing, Electronics & Mobile Communication Conference (IEEE UEMCON 2019)*, New York City, NY, USA, 10-12 October 2019.
- [C17] S. Sylaiou, V. Kasapakis, E. Dzardanova and **D. Gavalas**, "Assessment of Virtual Guides' Credibility in Virtual Museum Environments", *Proceedings of the 6<sup>th</sup> International Conference on Augmented Reality, Virtual Reality and Computer Graphics (SALENTO AVR 2019)*, LNCS Vol. 11614, Springer-Verlag, L. T. De Paolis, P. Bourdot (Eds.), pp. 230-238, Santa Maria al Bagno (Lecce), Italy, 24-27 June 2019.
- [C18] E. Dzardanova, V. Kasapakis, **D. Gavalas** and S. Sylaiou, "Exploring aspects of obedience in VR-mediated communication", *Proceedings of the 11<sup>th</sup> International Conference on Quality of Multimedia Experience (QoMEX'2019)*, pp. 1-3, Berlin, Germany, 5-7 June 2019.
- [C19] A-M. Michail and **D. Gavalas**, "Bucketfood: A Crowdsourcing Platform for Promoting Gastronomic Tourism", *Proceedings of the 2<sup>nd</sup> International Workshop on Context-Awareness for Multi-Device Pervasive and Mobile Computing (PerCrowd'2019)*, in conjunction with the 17<sup>th</sup> IEEE International Conference on Pervasive Computing and Communications (PerCom'2019), pp. 9-14, Kyoto, Japan, 11-15 March 2019.
- [C20] D. Kypriadis, G. Pantziou, C. Konstantopoulos and **D. Gavalas**, "Minimum Walking Static Repositioning in Free-Floating Electric Car-Sharing Systems", *Proceedings of the 21<sup>st</sup> IEEE International Conference on Intelligent Transportation Systems (ITSC'2018)*, pp. 1540-1545, Maui, Hawaii, USA, 4-7 November, 2018.
- [C21] E. Panopoulou, K. Kouros, A. Pasopoulou, G. Arsenikos, S. Vosinakis, P. Koutsabasis, M. Stavarakis and **D. Gavalas**, "THREADS: A Digital Storytelling Multi-stage Installation on Industrial Heritage", *Proceedings of the 6<sup>th</sup> International Euro-Mediterranean Conference (EuroMed'2018)*, M. Ioannides et al. (Eds.), LNCS 11196, Springer-Verlag, pp. 457-469, Nicosia, Cyprus, 29 October – 3 November 2018.
- [C22] E. Varia, C. Gkiti, C. Zikoudi, A. Kyrmanidou, I. Kyriakati, S. Vosinakis, P. Koutsabasis, M. Stavarakis and **D. Gavalas**, "i-Wall: A Low-Cost Interactive Wall for Enhancing Visitor Experience and Promoting Industrial Heritage in Museums", *Proceedings of the 6<sup>th</sup> International Euro-*

- Mediterranean Conference (EuroMed'2018)*, M. Ioannides et al. (Eds.), LNCS 11196, Springer-Verlag, pp. 90-100, Nicosia, Cyprus, 29 October – 3 November 2018.
- [C23] E. Charissi, M. Gaitanou, I. Margari, M. Papamakarios, S. Vosinakis, **D. Gavalas**, P. Koutsabasis and M. Stavrakis, "Design of an Interactive Experience Journey in a Renovated Industrial Heritage Site", *Proceedings of the 6<sup>th</sup> International Euro-Mediterranean Conference (EuroMed'2018)*, M. Ioannides et al. (Eds.), LNCS 11196, Springer-Verlag, pp. 150-161, Nicosia, Cyprus, 29 October – 3 November 2018.
- [C24] S. Sylaiou, V. Kasapakis, E. Dzardanova and **D. Gavalas**, "Leveraging Mixed Reality Technologies to Enhance Museum Visitor Experiences", *Proceedings of the 9<sup>th</sup> IEEE International Conference on Intelligent Systems (IS'2018)*, pp. 595-601, Funchal - Madeira, Portugal, 25-27 September 2018.
- [C25] **D. Gavalas**, K. Giannakopoulou, V. Kasapakis, D. Kehagias, C. Konstantopoulos, S. Kontogiannis, D. Kypriadis, G. Pantziou, A. Paraskevopoulos, C. Zaroliagis, "Renewable Mobility in Smart Cities: Cloud-Based Services", *Proceedings of the 23<sup>rd</sup> IEEE International Symposium on Computer and Communications (ISCC'2018)*, pp. 1280-1285, Natal, Brazil, 25-28 June 2018.
- [C26] V. Kasapakis, **D. Gavalas** and E. Dzardanova, "Robust Outdoors Marker-Based Augmented Reality Applications: Mitigating the Effect of Lighting Sensitivity", *Proceedings of the 5<sup>th</sup> International Conference on Augmented Reality, Virtual Reality and Computer Graphics (SALENTO AVR 2018)*, LNCS Vol. 10850, Springer-Verlag, L. T. De Paolis, P. Bourdot (Eds.), pp. 423-431, Otranto, Italy, 24-27 June 2018.
- [C27] V. Kasapakis, E. Dzardanova, **D. Gavalas** and S. Sylaiou, "Remote Synchronous Interaction in Mixed Reality Gaming Worlds", *Proceedings of the 10<sup>th</sup> International Workshop on Immersive Mixed and Virtual Environment Systems (MMVE'2018)*, co-located with *ACM Multimedia Systems Conference (MMSys'2018)*, pp. 13-15, Amsterdam, Netherlands, 12-15 June 2018 (acceptance ratio ~46%).
- [C28] V. Kasapakis, **D. Gavalas** and E. Dzardanova, "Creating Room-Scale Interactive Mixed-Reality Worlds Using Off-the-Shelf Technologies", *Proceedings of the 14<sup>th</sup> International Conference on Advances in Computer Entertainment Technology (ACE'2017)*, LNCS Vol. 10714, Springer-Verlag, A.D. Cheok, M. Inami, T. Romão (Eds.), pp. 1-13, London, UK, 14-16 December 2017.
- [C29] A. Bousios, **D. Gavalas**, L. Lambrinos, "CityCare: Crowdsourcing Everyday Life Issue Reports in Smart Cities", *Proceedings of the 2017 International Workshop on Smart Cities and IoT Services (SmartIoT'2017)*, held in conjunction with the *22<sup>nd</sup> IEEE International Symposium on Computer and Communications (ISCC'2017)*, pp. 266-271, Heraklion, Crete, Greece, 3-6 July 2017 (acceptance ratio ~57%).
- [C30] J. Dibbelt, **D. Gavalas**, K. Giannakopoulou, D. Kehagias, C. Konstantopoulos, S. Kontogiannis, G. Pantziou, D. Wagner, C. Zaroliagis, "Eco-aware Vehicle Routing in Urban Environments", *Proceedings of the 2017 International Workshop on Smart Cities and IoT Services (SmartIoT'2017)*, held in conjunction with the *22<sup>nd</sup> IEEE International Symposium on Computer and Communications (ISCC'2017)*, pp. 208-213, Heraklion, Crete, Greece, 3-6 July 2017 (acceptance ratio ~57%).
- [C31] J. Dibbelt, **D. Gavalas**, V. Kasapakis, C. Konstantopoulos, S. Kontogiannis, G. Pantziou, D. Wagner, C. Zaroliagis, "Multimodal Route and Tour Planning in Urban Environments", *Proceedings of the 2017 International Workshop on Smart Cities and IoT Services (SmartIoT'2017)*, held in conjunction with the *22<sup>nd</sup> IEEE International Symposium on Computer and Communications (ISCC'2017)*, pp. 214-219, Heraklion, Crete, Greece, 3-6 July 2017 (acceptance ratio ~57%).
- [C32] E. Dzardanova, V. Kasapakis and **D. Gavalas**, "Affective Impact of Social Presence in Immersive 3D Virtual Worlds", *Proceedings of the 6<sup>th</sup> International Workshop on Digital Entertainment, Networked Virtual Environments and Creative Technology (DENVECT'2017)*, co-located with the *22<sup>nd</sup> IEEE International Symposium on Computer and Communications (ISCC'2017)*, pp. 6-11, Heraklion, Crete, Greece, 3-6 July 2017 (acceptance ratio ~45%).

- [C33] A. Ioannidi, **D. Gavalas** and V. Kasapakis, "Flaneur: Augmented Exploration of the Architectural Urbanscape", *Proceedings of the 22<sup>nd</sup> IEEE International Symposium on Computer and Communications (ISCC'2017)*, pp. 529-533, Heraklion, Crete, Greece, 3-6 July 2017 (acceptance ratio ~47%).
- [C34] P. Galatis, **D. Gavalas**, V. Kasapakis, G. Pantziou and C. Zaroliagis, "Mobile Augmented Reality Guides in Cultural Heritage", *Proceedings of the 8<sup>th</sup> EAI International Conference on Mobile Computing, Applications and Services (MobiCASE'2016)*, pp. 11-19, Cambridge, UK, 30 November – 1 December 2016, (acceptance ratio ~38%).
- [C35] A. Angelopoulos, **D. Gavalas**, C. Konstantopoulos, D. Kyriadis, G. Pantziou, "An Optimization Model for the Strategic Design of a Bicycle Sharing System: A Case Study in the City of Athens", *Proceedings of the 20<sup>th</sup> Pan-Hellenic Conference on Informatics (PCI'2016)*, 10-12 November 2016, Patras, Greece (acceptance ratio ~40%).
- [C36] A. Angelopoulos, **D. Gavalas**, C. Konstantopoulos, D. Kyriadis, G. Pantziou, "Incentivization Schemes for Vehicle Allocation in One-Way Vehicle Sharing Systems", *Proceedings of the 2016 IEEE International Smart Cities Conference (ISC2'2016)*, Smart Transportation Track, Trento, Italy, 12-15 September 2016.
- [C37] **D. Gavalas**, V. Kasapakis, C. Konstantopoulos, K. Mastakas, G. Pantziou, N. Vathis and C. Zaroliagis, "Scenic Athens: A personalized scenic route planner for tourists", *Proceedings of the 21<sup>st</sup> IEEE Symposium on Computers and Communications (ISCC'2016)*, pp. 1151-1156, Messina, Italy, 27-30 June 2016.
- [C38] V. Kasapakis and **D. Gavalas**, "Investigating User Generated Content in Pervasive Games", *Proceedings the 5<sup>th</sup> IEEE International Workshop on Digital Entertainment, Networked Virtual Environments, and Creative Technology (DENVECT'16)*, co-located with the 21<sup>st</sup> IEEE Symposium on Computers and Communications (ISCC'2016), pp. 79-84, Messina, Italy, 27-30 June 2016.
- [C39] M. Kamilakis, **D. Gavalas** and C. Zaroliagis, "Mobile User Experience in Augmented Reality vs Maps Interfaces: A Case Study in Public Transportation", *Proceedings of the 3<sup>rd</sup> International Conference on Augmented Reality, Virtual Reality and Computer Graphics (SALENTO AVR 2016)*, LNCS 9768 (Part I), Springer-Verlag, L.T. De Paolis and A. Mongelli (Eds.), pp. 388-396, Otranto, Italy, 15-18 June 2016.
- [C40] V. Kasapakis, **D. Gavalas** and P. Galatis, "An Efficient Geometric Approach for Occlusion Handling in Outdoors Augmented Reality Applications", *Proceedings of the 3<sup>rd</sup> International Conference on Augmented Reality, Virtual Reality and Computer Graphics (SALENTO AVR 2016)*, LNCS 9768 (Part I), Springer-Verlag, L.T. De Paolis and A. Mongelli (Eds.), pp. 418-434, Otranto, Italy, 15-18 June 2016.
- [C41] T. Chatzidimitris, **D. Gavalas** and D. Michael, "SoundPacman: Audio Augmented Reality in Location-based Games", *Proceedings of the 18<sup>th</sup> IEEE Mediterranean Electrotechnical Conference (MELECON'2016)*, Theme: "Virtual Environments, 3D Simulations and Serious Games", Limassol, Cyprus, April 18-20, 2016.
- [C42] **D. Gavalas**, I. Venetis, C. Konstantopoulos, G. Pantziou, "An Iterated Local Search Approach for Multiple Itinerary Planning in Mobile Agent-Based Sensor Fusion", *Proceedings of the 11<sup>th</sup> IEEE International Conference on Mobile Ad-hoc and Sensor Networks (MSN'2015)*, pp. 1-7, Shenzhen, China, 16-18 December 2015.
- [C43] V. Kasapakis and **D. Gavalas**, "Geolocative Raycasting for Real-Time Buildings Detection in Pervasive Games", *Proceedings of the 14<sup>th</sup> International Workshop on Network and Systems Support for Games (NetGames'2015)*, Zagreb, Croatia, 3-4 December 2015.
- [C44] V. Kasapakis and **D. Gavalas**, "Determining Field of View in Outdoors Augmented Reality Applications", *Proceedings of the 2015 European Conference on Ambient Intelligence (AmI'2015)*, LNCS Vol. 9425, Springer-Verlag, B. De Ruyter, A. Kameas, P. Chatzimisios, I. Mavrommati (Eds.),



- pp. 344-348, Athens, Greece, 11-13 November 2015 (acceptance ratio ~54%). Selected among the best conference papers; invited for submission of an extended version to a Thematic Issue of the *Journal of Ambient Intelligence and Smart Environments* [J19].
- [C45] G. Pantziou, C. Konstantopoulos, **D. Gavalas**, N. Vathis and V. Nakos, "An energy-efficient protocol for data gathering in wireless sensor networks using mobile sinks", Proceedings of the *International Conference in Science in Technology (SCinTE'2015)*, Athens, Greece, 5-7 November 2015.
  - [C46] C. Konstantopoulos, G. Pantziou, N. Vathis and **D. Gavalas**, "Efficient Delay-constrained Data Collection in Wireless Sensor Networks using Mobile Sinks", Proceedings of the 2015 *8<sup>th</sup> IFIP Wireless and Mobile Networking Conference (WMNC'2015)*, pp. 1-8, Munich, Germany, 5-7 October 2015 (acceptance ratio ~39%).
  - [C47] A. Dasios, **D. Gavalas**, G. Pantziou and C. Konstantopoulos, "Wireless Sensor Network Deployment for Remote Elderly Care Monitoring", Proceedings of the *8<sup>th</sup> International Conference on Pervasive Technologies Related to Assistive Environments (PETRA'2015)*, pp. 61:1--61:4, ACM, Corfu, Greece, 1-3 July 2015.
  - [C48] **D. Gavalas**, V. Kasapakis, C. Konstantopoulos, G. Pantziou, N. Vathis and C. Zaroliagis, "A Personalized Multimodal Tourist Tour Planner", Proceedings of the *13<sup>th</sup> International Conference on Mobile and Ubiquitous Multimedia (MUM'2014)*, pp. 73-80, Melbourne, Australia, 25-28 November 2014 (acceptance ratio ~41%).
  - [C49] V. Kasapakis and **D. Gavalas**, "Blending History and Fiction in a Pervasive Game Prototype", Proceedings of the *13<sup>th</sup> International Conference on Mobile and Ubiquitous Multimedia (MUM'2014)*, pp. 116-122, Melbourne, Australia, 25-28 November 2014 (acceptance ratio ~41%).
  - [C50] T. Chatzidimitris, **D. Gavalas** and V. Kasapakis, "PacMap: Transferring PacMan to the Physical Realm", Proceedings of the *International Conference on Pervasive Games (PERGAMES'2014)*, LNCS Vol. 150, R. Giaffreda et al. (Eds.), Springer-Verlag, pp. 139-144, Rome, Italy, 27 October 2014 – **Featured in the January 2015 issue of [MIT Technology Review](#)**.
  - [C51] V. Kasapakis, **D. Gavalas** and T. Chatzidimitris, "Evaluation of Pervasive Games: Recruitment of Qualified Participants through Preparatory Game Phases", Proceedings of the *International Conference on Pervasive Games (PERGAMES'2014)*, LNCS Vol. 150, R. Giaffreda et al. (Eds.), Springer-Verlag, pp. 118-124, Rome, Italy, 27 October 2014.
  - [C52] C. Konstantopoulos, G. Pantziou, N. Vathis, V. Nakos and **D. Gavalas**, "Efficient Mobile Sink-Based Data Gathering in Wireless Sensor Networks with Guaranteed Delay", Proceedings of the *12<sup>th</sup> ACM International Symposium on Mobility Management and Wireless Access (MOBIWAC'2014)*, pp. 47-54, Montreal, QC, Canada, 21-26 September 2014.
  - [C53] I. Venetis, G. Pantziou, **D. Gavalas** and C. Konstantopoulos, "Benchmarking Mobile Agent Itinerary Planning Algorithms for Data Aggregation on WSNs", Proceedings of the *6<sup>th</sup> International Conference on Ubiquitous and Future Networks (ICUFN'2014)*, pp. 105-110, Shanghai, China, 8-11 July 2014 (acceptance ratio ~40%).
  - [C54] C. Konstantopoulos, I. Venetis, G. Pantziou and **D. Gavalas**, "An Efficient Event Handling Protocol for Wireless Sensor and Actor Networks", Proceedings of the *19<sup>th</sup> IEEE Symposium on Computers and Communication (ISCC'2014)*, pp. 1-6, Madeira, Portugal, 23-26 June 2014 (acceptance ratio ~46%).
  - [C55] **D. Gavalas**, C. Konstantopoulos, K. Mastakas, G. Pantziou and N. Vathis, "Efficient Heuristics for the Time Dependent Team Orienteering Problem with Time Windows", Proceedings of the *International Conference on Applied Algorithms (ICAA'2014)*, LNCS Vol. 8321, Springer-Verlag, P. Gupta and C. Zaroliagis (Eds.), pp. 151-162, Kolkata, India, 13-15 January 2014 (acceptance ratio ~16%).



- [C56] V. Kasapakis, **D. Gavalas** and N. Bubaris, "Pervasive Games Research: A Design Aspects-Based State of the Art Report", Proceedings of the 17<sup>th</sup> *Panhellenic Conference on Informatics (PCI'2013)*, pp. 152-157, Thessaloniki, Greece, 19-21 September 2013 (acceptance ratio ~64%).
- [C57] T. Chatzidimitris, E. Kavakli, M. Economou and **D. Gavalas**, "Mobile Augmented Reality Edutainment Applications for Cultural Institutions", Proceedings of the 4<sup>th</sup> *International Conference on Information, Intelligence, Systems and Applications (IISA'2013)*, pp. 270-274, Piraeus, Greece, 10-12 July 2013.
- [C58] **D. Gavalas**, V. Kasapakis, C. Konstantopoulos, K. Mastakas and G. Pantziou, "A Survey on Mobile Tourism Recommender Systems", Proceedings of the 3<sup>rd</sup> *International Conference on Communications and Information Technology (ICCIT'2013)*, pp. 131-135, Beirut, Lebanon, 19-21 June 2013 (acceptance ratio ~40%).
- [C59] V. Kasapakis, **D. Gavalas** and N. Bubaris, "Addressing Openness and Portability in Outdoor Pervasive Role-Playing Games", Proceedings of the 3<sup>rd</sup> *International Conference on Communications and Information Technology (ICCIT'2013)*, pp. 93-97, Beirut, Lebanon, 19-21 June 2013 (acceptance ratio ~40%).
- [C60] **D. Gavalas**, C. Konstantopoulos, K. Mastakas, G. Pantziou and Y. Tasoulas, "Cluster-based Heuristics for the Team Orienteering Problem with Time Windows", Proceedings of the 12<sup>th</sup> *International Symposium on Experimental Algorithms (SEA'2013)*, LNCS Vol. 7933, Springer-Verlag, V. Bonifaci et al. (Eds.), pp. 390-401, Rome, Italy, 5-7 June 2013 (acceptance ratio ~44%).
- [C61] **D. Gavalas**, M. Kenteris, C. Konstantopoulos and G. Pantziou, "Personalized Routes for Mobile Tourism", Proceedings of the 2011 *IEEE 7<sup>th</sup> International Conference on Wireless and Mobile Computing, Networking and Communications (WiMob'2011)*, pp. 295-300, Shanghai, China, 10-12 October 2011 (acceptance ratio ~37%).
- [C62] M. Kenteris, **D. Gavalas**, G. Pantziou and C. Konstantopoulos, "Near-Optimal Personalized Daily Itineraries for a Mobile Tourist Guide", Proceedings of the 15<sup>th</sup> *IEEE Symposium on Computers and Communications (ISCC'2010)*, pp. 862-864, Riccione, Italy, 22-25 June 2010 (acceptance ratio ~39%).
- [C63] M. Kenteris, **D. Gavalas** and A. Mpitzopoulos, "A Mobile Tourism Recommender System", Proceedings of the 15<sup>th</sup> *IEEE Symposium on Computers and Communications (ISCC'2010)*, pp. 840-845, Riccione, Italy, 22-25 June 2010 (acceptance ratio ~39%).
- [C64] G. Pantziou, A. Mpitzopoulos, **D. Gavalas**, C. Konstantopoulos and B. Mamalis, "Mobile Sinks for Information Retrieval from Cluster-Based WSN Islands", Proceedings of the 8<sup>th</sup> *International Conference on AD-HOC Networks & Wireless (AdHoc-NOW 2009)*, LNCS Vol. 5793, Springer-Verlag, P.M. Ruiz and J.J. Garcia-Luna-Aceves (Eds.), pp. 213-226, Murcia, Spain, 16-19 September 2009 (acceptance ratio ~26%).
- [C65] G. Pantziou, P. Belsis, **D. Gavalas**, C. Konstantopoulos and B. Mamalis, "A Scheme for On-Site Service Provision in Pervasive Assistive Environments", Proceedings of the 2<sup>nd</sup> *International Conference on Pervasive Technologies Related to Assistive Environments (PETRA'2009)*, ACM, Corfu, Greece, 9-13 June 2009.
- [C66] G. Tsekouras, **D. Gavalas**, S. Filios, A. Niros and G. Bafaloukas, "A Clustering Framework to Build Focused Web Crawlers for Automatic Extraction of Cultural Information", Proceedings of the 5<sup>th</sup> *Hellenic Conference on Artificial Intelligence (SETN'2008)*, J. Darzentas et al. (Eds.), LNAI vol. 5138, pp. 419-424, Syros, Greece, 2-4 October 2008 (acceptance ratio ~58%).
- [C67] M. Kenteris, D. Economou, **D. Gavalas** and D. Zamplaras, "Deploying Thick Mobile Clients using Thin Client Architecture: a Case in Mobile Tourist Guides", Proceedings of the 1<sup>st</sup> *World Summit on the Knowledge Society (WSKS'2008)*, M.D. Lytras et al. (Eds.), Communications in Computer and Information Science (CCIS) Vol. 19, Springer, Athens, Greece, pp. 635-640, 24-28 September 2008.

- [C68] M. Kenteris, **D. Gavalas** and D. Economou, "Evaluation of Mobile Tourist Guides", Proceedings of the *1<sup>st</sup> World Summit on the Knowledge Society (WSKS'2008)*, M.D. Lytras et al. (Eds.), Communications in Computer and Information Science (CCIS) Vol. 19, Springer, Athens, Greece, pp. 603-610, 24-28 September 2008.
- [C69] M. Kenteris, M. Vafopoulos and **D. Gavalas**, "Cultural Informatics in Web Science: A Case of Exploiting Local Cultural Content", Proceedings of the *12<sup>th</sup> Panhellenic Conference on Informatics (PCI'2008)*, Samos, Greece, 28-30 August 2008.
- [C70] A. Mpitziopoulos, C. Konstantopoulos, **D. Gavalas** and G. Pantziou, "Distributed Hazard Monitoring for Visually Impaired People Enabled by Wireless Sensor Networking Technology", Proceedings of the *1<sup>st</sup> International Conference on Pervasive Technologies Related to Assistive Environments (PETRA'2008)*, ACM International Conference Proceeding Series, Vol. 282, Athens, Greece, 15-19 July 2008.
- [C71] E. Vlachogiannis, **D. Gavalas**, C. Anagnostopoulos and G. Tsekouras, "Towards iTV Accessibility: The MPEG-21 Case", Proceedings of the *1<sup>st</sup> International Conference on Pervasive Technologies Related to Assistive Environments (PETRA'2008)*, ACM International Conference Proceeding Series, Vol. 282, Athens, Greece, 15-19 July 2008. Selected among the best conference papers; invited for submission of an extended version to a Special Issue of the *International Journal of Universal Access in the Information Society (UAIS)* [J36].
- [C72] A. Mpitziopoulos, **D. Gavalas**, C. Konstantopoulos and G. Pantziou, "Exploiting the Cloning Capability of Mobile Agents for Cost-Effective Data Fusion in Wireless Sensor Networks", Proceedings of the *13<sup>th</sup> IEEE Symposium on Computers and Communications (ISCC'08)*, pp. pp. 963-968, Marrakech, Morocco, 6-9 July 2008 (acceptance ratio ~46%) – **Awarded the 'Best Paper Award'** (among 187 articles included in the conference's programme).
- [C73] M. Kenteris, D. Economou and **D. Gavalas**, "The Quest to Build a Multi-Platform Mobile Tourist Guide for the Municipal Council of Mytilene, Greece", Proceedings of the *2<sup>nd</sup> International Scientific Conference of the E-Business Forum in "E-Business in Travel, Tourism and Hospitality"*, Athens, Greece, 14 March 2008.
- [C74] C. Anagnostopoulos, G. Tsekouras, **D. Gavalas**, D. Economou and I. Psoroulas, "Increasing Interactivity in IPTV using MPEG-21 Descriptors", Proceedings of the *4<sup>th</sup> IFIP Conference on Artificial Intelligence Applications & Innovations (AIAI'2007)*, C. Boukis, L. Pnevmatikakis, L. Polymenakos, (Eds.), Vol. 247, pp. 65-72, Athens, Greece, 19-21 September 2007.
- [C75] G. Tsekouras, C. Anagnostopoulos, **D. Gavalas** and D. Economou, "Classification of Web Documents using Fuzzy Logic Categorical Data Clustering", Proceedings of the *4<sup>th</sup> IFIP Conference on Artificial Intelligence Applications & Innovations (AIAI'2007)*, C. Boukis, L. Pnevmatikakis, L. Polymenakos, (Eds.), Vol. 247, pp. 93-100, Athens, Greece, 19-21 September 2007.
- [C76] A. Mpitziopoulos, **D. Gavalas**, G. Pantziou and C. Konstantopoulos, "Defending Wireless Sensor Networks from Jamming Attacks", Proceedings of the *18<sup>th</sup> Annual IEEE International Symposium on Personal, Indoor and Mobile Radio Communications (PIMRC'2007)*, ISBN: 1-4244-1144-0, Athens, Greece, 3-7 September 2007 (acceptance ratio ~43%).
- [C77] A. Mpitziopoulos, **D. Gavalas**, C. Konstantopoulos and G. Pantziou, "Deriving Efficient Mobile Agent Routes in Wireless Sensor Networks with NOID Algorithm", Proceedings of the *18<sup>th</sup> Annual IEEE International Symposium on Personal, Indoor and Mobile Radio Communications (PIMRC'2007)*, ISBN: 1-4244-1144-0, Athens, Greece, 3-7 September 2007 (acceptance ratio ~43%).
- [C78] G. E. Tsekouras, A. Mamalis, C. Anagnostopoulos, D. Economou and **D. Gavalas**, "Image Compression Based on a Novel Fuzzy Learning Vector Quantization Algorithm", Proceedings of the *10<sup>th</sup> International Conference on Engineering Applications of Neural Networks (EANN'2007)*, pp.

- 344-351, Thessaloniki, Greece, 29-31 August 2007. Selected among the best conference papers; invited for submission of an extended version to a Special Issue of *Information Sciences* [J52].
- [C79] M. Kenteris, **D. Gavalas** and D. Economou, "Mobile Electronic Guides for the Masses: Optimizing Tourists Mobile Devices", Proceedings of the *11<sup>th</sup> Panhellenic Conference on Informatics (PCI'2007)*, ISBN: 978-960-89784-0-9, Vol. B, pp. 625-634, Patras, Greece, 18-20 May 2007.
  - [C80] **D. Gavalas**, C. Konstantopoulos, B. Mamalis and G. Pantziou, "New Techniques for Incremental Data Fusion in Distributed Sensor Networks", Proceedings of the *11<sup>th</sup> Panhellenic Conference on Informatics (PCI'2007)*, ISBN: 978-960-89784-0-9, Vol. B, pp. 599-608, Patras, Greece, 18-20 May 2007.
  - [C81] D. Economou, **D. Gavalas** and M. Kenteris, "Authoring Tools & Development Platforms: Requirements for Mobile Devices-Enabled Cultural Applications", Proceedings of the *11<sup>th</sup> Panhellenic Conference on Informatics (PCI'2007)*, ISBN: 978-960-89784-0-9, Vol. B, pp. 419-432, Patras, Greece, 18-20 May 2007.
  - [C82] C. Konstantopoulos, **D. Gavalas** and G. Pantziou, "A Mobility Aware Technique for Clustering on Mobile Ad-Hoc Networks", Proceedings of the *8<sup>th</sup> International Conference on Distributed Computing and Networking (ICDCN'2006)*, LNCS Vol. 4308, Springer-Verlag, S. Chaudhuri et al. (Eds.), pp. 397-408, Guwahati, India, 27-30 December 2006 (acceptance ratio ~13%).
  - [C83] M. Kenteris, **D. Gavalas** and D. Economou, "Software Analysis and Design for Mobile Devices: A Case Study in Tourism", Proceedings of the *24<sup>th</sup> EuroCHRIE Congress (EuroCHRIE'2006)*, Thessaloniki, Greece, 25-28 October 2006.
  - [C84] **D. Gavalas**, G. Pantziou, C. Konstantopoulos and B. Mamalis, "Stable and Energy Efficient Clustering of Wireless Ad-Hoc Networks with LIDAR Algorithm", Proceedings of the *11th IFIP International Conference on Personal Wireless Communications (PWC'2006)*, LNCS Vol. 4217, Springer-Verlag, P. Cuenca and L. Orozco-Barbosa (Eds.), pp. 100 - 110, Albacete, Spain, 20-22 September 2006 (acceptance ratio ~28%). Selected among the best conference papers; invited for submission of an extended version to a Special Issue of *Telecommunication Systems* [J56].
  - [C85] M. Kenteris, **D. Gavalas** and D. Economou, "Developing Tourist Guide Applications for Mobile Devices Using the J2ME Platform", Proceedings of the *2006 Conference on Mobile Computing and Wireless Communications (MCWC'2006)*, O. Haddad (Eds), ISBN: 978-9957-486-00-6, pp. 178-183, Amman, Jordan, 17-20 September 2006, (acceptance ratio ~55%).
  - [C86] **D. Gavalas**, D. Economou and M. Kenteris, "The Wireless Internet Technology Landscape", Proceedings of the *2006 Conference on Mobile Computing and Wireless Communications (MCWC'2006)*, O. Haddad (Eds), ISBN: 978-9957-486-00-6, pp. 171 – 177, Amman, Jordan, 17-20 September 2006 (acceptance ratio ~55%).
  - [C87] **D. Gavalas**, "A Lightweight and Flexible Mobile Agent Platform Tailored to Management Applications", Proceedings of the *2006 Conference on Mobile Computing and Wireless Communications (MCWC'2006)*, O. Haddad (Eds), ISBN: 978-9957-486-00-6, pp. 203-208, Amman, Jordan, 17-20 September 2006 (acceptance ratio ~55%).
  - [C88] M. Kenteris, **D. Gavalas** and D. Economou, "A Novel Method for the Development of Personalized Mobile Tourist Applications", Proceedings of the *5th IASTED International Conference on Communication Systems and Networks (CSN'2006)*, C.E. Palau Salvador (Eds.), ACTA Press, ISBN: 0-88986-606-6, pp. 208-212, Palma de Mallorca, Spain, 28-30 August 2006.
  - [C89] **D. Gavalas**, D. Economou and M. Kenteris, "Status and Trends of Wireless Web Technologies", Proceedings of the *5th IASTED International Conference on Communication Systems and Networks (CSN'2006)*, C.E. Palau Salvador (Eds.), ACTA Press, ISBN: 0-88986-606-6, pp. 219-224, Palma de Mallorca, Spain, 28-30 August 2006.
  - [C90] **D. Gavalas**, G. Pantziou, C. Konstantopoulos and B. Mamalis, "Clustering of Mobile Ad Hoc Networks: An Adaptive Broadcast Period Approach", Proceedings of the *IEEE International*

- Conference on Communications (ICC'2006)*, pp. 4034-4039, Istanbul, Turkey, 11-15 June 2006 (acceptance ratio ~ 39%). Selected among the best conference papers; invited for submission of an extended version to a Special Issue of *International Journal of Sensor Networks* [J51].
- [C91] **D. Gavalas**, G. Pantziou, C. Konstantopoulos and B. Mamalis, "A Method for Incremental Data Fusion in Distributed Sensor Networks", *Proceedings of the 3rd IFIP Conference on Artificial Intelligence Applications & Innovations (AIAI'2006)*, IFIP (Springer), Vol. 204, I. Maglogiannis, K. Karpouzis and M. Bramer (Eds.), ISBN: 0-387-34223-0, pp. 635-642, Athens, Greece, 7-9 June 2006.
  - [C92] D. Economou, S. Varitimiadis, M. Samaroudi and **D. Gavalas**, "The Effectiveness of Personal Digital Assistants (PDAs), Audio-Guides or Paper Leaflets to Enhance the Museum Visit Experience", *Proceedings of the 3rd International Conference on Museology (ICM'2006)*, Mytilene, Greece, 5-8 June 2006.
  - [C93] M. Kenteris, **D. Gavalas** and D. Economou, "The Use of Mobile Telephones to Promote Cultural Information", *Proceedings of the 3rd International Conference on Museology (ICM'2006)*, poster presentation, Mytilene, Greece, 5-8 June 2006.
  - [C94] **D. Gavalas**, G. Pantziou, C. Konstantopoulos and B. Mamalis, "Lowest-ID with Adaptive ID Reassignment: A Novel Mobile Ad-Hoc Network Clustering Algorithm", *Proceedings of the 1st IEEE International Symposium on Wireless Pervasive Computing (ISWPC'2006)*, ISBN: 0-7803-9411-9, Phuket, Thailand, 16-18 January 2006 (acceptance ratio ~ 38%).
  - [C95] **D. Gavalas**, "Optimal Itinerary Planning for Mobile Agents-Based Management Applications", *Proceedings of the 2005 IEEE Global Communications Conference (Globecom'2005)*, ISBN: 0-7803-9251-5, pp. 137-141, St. Louis, MO, USA, 28 November – 2 December 2005 (acceptance ratio ~ 45%).
  - [C96] **D. Gavalas**, G. Pantziou, C. Konstantopoulos and B. Mamalis, "An Efficient and Scalable Clustering Algorithm for Wireless Ad Hoc Networks", *Proceedings of the 1st International Workshop on Distributed Algorithms and Applications for Wireless and Mobile Systems (DAAWMS'2005)*, organized in conjunction with the 17<sup>th</sup> *IASTED International Conference on Parallel and Distributed Computing and Systems (PDCS'2005)*, ISBN: 0-88986-525-6, pp. 761-766, Phoenix, AZ, USA, 16 November 2005.
  - [C97] **D. Gavalas**, C. Konstantopoulos, B. Mamalis and G. Pantziou, "Efficient BSP/CGM Algorithms for Text Retrieval", *Proceedings of the 17<sup>th</sup> IASTED International Conference on Parallel and Distributed Computing and Systems (PDCS'2005)*, ISBN: 0-88986-525-6, pp. 301-306, Phoenix, AZ, USA, 14-16 November, 2005.
  - [C98] **D. Gavalas**, G. Pantziou, C. Konstantopoulos and B. Mamalis, "Efficient Active Clustering of Mobile Ad-Hoc Networks", *Proceedings of the 10<sup>th</sup> Panhellenic Conference on Informatics (PCI'2005)*, LNCS Vol. 3746, Springer-Verlag, P. Bozanis and E.N. Houstis (Eds.), pp. 820-827, Volos, Greece, 11-13 November 2005 (acceptance ratio ~ 32%).
  - [C99] **D. Gavalas**, "Mobile Agent Platform Design Optimisations for Minimising Network Overhead and Latency in Agent Migrations", *Proceedings of the 2004 IEEE Global Communications Conference (Globecom'2004)*, ISBN: 0-7803-8795-3, pp. 605-609, Dallas, Texas, U.S.A., 29 November-3 December 2004 (acceptance ratio ~ 37%).
  - [C100] **D. Gavalas**, "Network Management Itineraries for Mobile Agents", *Proceedings of the 2nd International Working Conference on Performance Modelling and Evaluation of Heterogeneous Networks (HET-NETs'04)*, p8/1-8/9, Ilkley, West Yorkshire, U.K. 26-28 July 2004.
  - [C101] **D. Gavalas**, "Optimising Mobile Agent Migrations: An Experimental Approach", *Proceedings of the 2nd International Working Conference on Performance Modelling and Evaluation of Heterogeneous Networks (HET-NETs'04)*, p43/1-43/9, Ilkley, West Yorkshire, U.K. 26-28 July 2004.
  - [C102] **D. Gavalas**, D. Greenwood, M. Ghanbari and M. O'Mahony, "Implementing a Highly Scalable and Adaptive Agent-Based Management Framework", *Proceedings of the IEEE Global Communications*

- Conference (Globecom'2000)*, IEEE Publishing, Vol. 3, pp. 1458-1462, San Francisco, U.S.A., 27 November-1 December 2000 (acceptance ratio ~ 35%).
- [C103] **D. Gavalas**, D. Greenwood, M. Ghanbari and M. O'Mahony, "Enabling Mobile Agent Technology for Intelligent Bulk Management Data Filtering", *Proceedings of the 7th IEEE/IFIP Network Operations and Management Symposium (NOMS'2000)*, Hong J., Weihmayer R. (Eds.), IEEE Publishing, pp.623-636, Honolulu, Hawaii, U.S.A., 10-14 April 2000 (acceptance ratio ~ 30%).
- [C104] **D. Gavalas**, D. Greenwood, M. Ghanbari and M. O'Mahony, "Deploying a Hierarchical Management Framework Using Mobile Agent Technology", *Proceedings of the 7th International Conference on Intelligence in Services and Networks (IS&N'2000)*, LNCS Vol. 1774, Springer-Verlag, Delgado J., Stamoulis G.D., Mullery A., Prevedourou D. and Start K. (Eds.), pp. 333-348, Athens, Greece, 23-25 February 2000.
- [C105] **D. Gavalas**, D. Greenwood, M. Ghanbari and M. O'Mahony, "Complimentary Polling Modes for Network Performance Management Employing Mobile Agents", *Proceedings of the IEEE Global Communications Conference (Globecom'99)*, IEEE Publishing, pp. 401-405, Rio de Janeiro, Brazil, 5-9 December 1999 (acceptance ratio ~ 40%).
- [C106] **D. Gavalas**, D. Greenwood, M. Ghanbari and M. O'Mahony, "Using Mobile Agents for Distributed Network Performance Management", *Proceedings of the 3rd International Workshop on Intelligent Agents for Telecommunication Applications (IATA'99)*, LNCS Vol. 1699, Springer-Verlag, Albayrak, S. (Eds.), pp. 96-112, Stockholm, Sweden, 9-11 August 1999.
- [C107] **D. Gavalas**, D. Greenwood, M. Ghanbari and M. O'Mahony, "A Hybrid Centralised - Distributed Network Management Architecture", *Proceedings of the 4th IEEE Symposium on Computers and Communications (ISCC'99)*, IEEE Publishing, pp. 434-441, Sharm El Sheikh, Egypt, 6-8 July 1999 (acceptance ratio ~ 50%).
- [C108] D. Greenwood and **D. Gavalas**, "Using Active Processes as the Basis for an Integrated Distributed Network Management Architecture", *Proceedings of the 1st International Working Conference on Active Networks (IWAN'99)*, LNCS Vol. 1653, Springer-Verlag, Covaci S. (Eds.), pp. 199-211, Berlin, Germany, 30 June - 2 July 1999 (acceptance ratio ~ 37%).
- [C109] **D. Gavalas**, D. Greenwood, M. Ghanbari and M. O'Mahony, "An Infrastructure for Distributed and Dynamic Network Management based on Mobile Agent Technology", *Proceedings of the IEEE International Conference on Communications (ICC'99)*, IEEE Publishing, Vol. 2, pp. 1362-1366, Vancouver, Canada, 6-10 June 1999 (acceptance ratio ~ 44%).
- [C110] **D. Gavalas**, D. Greenwood, M. Ghanbari and M. O'Mahony, "A Progressive Network Management Architecture Enabled by Java Technology", *Proceedings of the 1st International Conference and Exhibition on the Practical Applications of Java (PA-Java'99)*, ISBN: 1-902426-03-07, pp. 61-72, London, UK, 21-23 April 1999.

#### Refereed Conferences (abstract submission)

- [A1] **D. Gavalas**, V. Kasapakis, C. Konstantopoulos, G. Pantziou, N. Vathis and C. Zaroliagis, "Multimodal Tourist Tour Planning", Special Session "Sustainable Multimodal Urban Mobility", *28th European Conference on Operational Research (EURO 2016)*, Poznan, Poland, 3-6 July 2016.
- [A2] G. Pantziou, A. Angelopoulos, **D. Gavalas** and D. Kyriadis, "An Incentivized Relocation Scheme for Balancing Vehicle Sharing Systems", Special Session "Sustainable Multimodal Urban Mobility", *28th European Conference on Operational Research (EURO 2016)*, Poznan, Poland, 3-6 July 2016.
- [A3] **D. Gavalas**, C. Konstantopoulos, K. Mastakas and G. Pantziou, "Cluster-based Heuristic Approaches for the Tourist Trip Design Problem", Special Session "Tourist Route Planning", *26th European Conference on Operational Research (EURO/INFORMS MMXIII)*, Rome, Italy, 1-4 July 2013.

- [A4] G. Pantziou, **D. Gavalas**, C. Konstantopoulos and K. Mastakas, “Algorithmic Methods for Deriving Multi-Modal Personalized Tourist Tours”, Special Session “Tourist Route Planning”, *26th European Conference on Operational Research (EURO/INFORMS MMXIII)*, Rome, Italy, 1-4 July 2013.

#### Book Reviews

- [BR1] **D. Gavalas**, review for “Distributed Storage Networks”, Computing Reviews, June 2005.  
 [BR2] **D. Gavalas**, review for “Effective Enterprise Java”, Computing Reviews, April 2004.

#### CO-AUTHORED BOOKS

- “Mobile Technologies: Mobile Web, Mobile Applications in the Android Platform, Augmented Reality” (*in Greek*), ISBN: 978-960-578-007-4, 442 pages, co-authored by: **D. Gavalas**, V. Kasapakis, T. Chatzidimitris, New Technologies Publications, 2015; distributed as a textbook in 21 modules (in 17 public Greek Universities).
- “Handbook on protocols, services and applications of wireless networks” (*in Greek*), ISBN: 978-960-538-917-8, 180 pages, co-authored by: **D. Gavalas**, P. Nicopolitidis, Hellenic Open University Press, 2013.
- “Handbook on advanced distributed systems design issues” (*in Greek*), ISBN: 978-960-538-919-2, 192 pages, co-authored by: **D. Gavalas**, C. Goumopoulos, Hellenic Open University Press, 2013.

#### CITATIONS

	Publications	Citations	Citations (excluding self-citations)	<i>h</i> -index
Google Scholar	211	6144	-	37
Scopus	171	3369	3096	28
Web of Science	61	1734	1691	19

#### INVITED TALKS

- “Smart tourism technologies for smart cities”, keynote speech, EAI Smart City 360, Braga, Portugal, November 16-18, 2022.
- “Mobile Technologies for the Promotion of Cultural Heritage”, Syros Institute, 8th Inter-University Seminar (theme: “Culture & Digital Technologies”), Syros, Greece, June 27, 2018.
- “Tour and event planning”, International Workshop on “The Next Generation of Route Planners”, Brussels, Belgium, May 9, 2017.
- “eco-Friendly Urban Multi-Modal Route Planning Services for Mobile Users”, Steering Committee Meeting of the FP7 REDUCTION project, Volos, Greece, July 10, 2013.
- “Context-awareness and personalization in mobile computing: The case of Mobile Tourist Guides”, Department of Informatics Engineering, University of Coimbra, Portugal, July 14, 2010.
- “Multimedia applications for portable devices: wireless Internet technologies, programming platforms, authoring tools, applications”, Computer Science Dept, Technological Institution (TEI) of Athens, Athens, Greece, October 15th, 2007.

#### COMPUTER LITERACY

##### Operating Systems

MS-DOS, MS Windows, UNIX (SunOs, Solaris and Linux) και MacOS.

### **Programming**

Object-oriented (VB.NET, Java, C++) and procedural programming (C, Pascal), Mobile Agent platforms, Mobile development (Java ME, .NET Compact Framework).

### **Web development**

Markup/presentation languages: (X)HTML/CSS, XML/XSL; client-side programming: Javascript, Ajax; server-side programming: Java Servlets, JSP, PHP; Joomla!; Mobile Web: WAP/WML, i-mode/cHTML, XHTML MP; Web Services.

### **DataBase Management Systems**

MS SQL Server, MySQL, SQLite, MS Access.

### **Software Packages/Application Development Tools**

MS Office, CACI COMNET III, Matlab, Rational Rose, Sybase PowerBuilder, MS Multimedia Toolbook, Micromedia Dreamweaver, Altova XMLSpy.

### **Networks**

TCP/IP, network design, network management (SNMP), Internet, web, client/server, distributed applications (Java RMI, CORBA).

## **LANGUAGES**

- Greek (native).
- Excellent command of English (Certificate of Proficiency in English, University of Cambridge, 1996).
- French, Italian (beginner's level).

## **SEMINARS**

- Seminar in Open and Distant Education, Hellenic Open University, Athens, Greece, December 4-5, 2010 & January 29-30, 2011 (16 hours).
- Seminar in "Data mining with emphasis in cultural and educational content" (organised by: Centre of Applications of Computer Science and Communication Technologies, Institute of Cultural and Educational Technology), Xanthi, Greece, 24 January – 2 February 2005 (64 hours).

## **ADDITIONAL ACHIEVEMENTS/GRANTS/AWARDS**

Received award in the context of the 1st Innovation Competition in Virtual & Augmented Reality Technologies (XR Cosmos 2022), organized by the Foundation of the Hellenic World; proposal "Exhibot: 3D Audio + Augmented Reality + AI Chatbots + IoT" (2 proposals have received awards and financial prize, among the 12 candidates – selection made by a 11-members international committee), October 2022.

- 100.000 top scientists across all fields - top 2% in the field "Networking & Telecommunications", both for career-long performance until the end of 2021 and performance in the single year 2019, 2020 and 2021, according to a [survey of Stanford University \(2022\)](#).
- Ranked among the top 200 IT scientists of Greek origin based on the international impact of their research (only 40% of them serve in Greek Universities) (June 2021).
- Awards and distinctions for published articles:
  - 'Young Researcher Award' for paper [C2], presented at 6<sup>th</sup> Conference on Sustainable Urban Mobility (CSUM'2022).
  - 'Best Full Paper Award' (among 42 papers) for paper [C3], presented at the 1<sup>st</sup> International Conference on eXtended Reality (XR Salento 2022).



- The article [C50] (presented at the International Conference on Pervasive Games - PERGAMES'2014) has been featured in the January 2015 issue of [MIT Technology Review](#).
- The article [J38] has been one of the 7 featured articles of the February 2011 issue of '[Computing Now](#)', an online publication that features selected articles from the 13 IEEE Computer Society journals. It also appeared in the online publication InfoQ (<http://www.infoq.com/articles/ieee-mobile-platforms>) which features selected, pioneer research articles in the area of software development.
- The article [J47] has been featured among the 'Top 25 Hottest Articles' of Pervasive and Mobile Computing journal in July-September 2009.
- The article [J49] has been featured among the 'Top 25 Hottest Articles' of the Journal of Systems and Software in January-March 2009.
- 'Best Paper Award' (among 187 papers) for paper [C72], presented at the 13th IEEE Symposium on Computers and Communications (ISCC'08).
- The article [J65] has been featured among the 'most downloaded articles' of Computer Networks journal in January - August 2003.
- IEEE student travel grant for presenting the paper [C103] at IEEE NOMS'2000 conference (the grant was endorsed on the basis of average reviewer score).
- "British Telecom Postgraduate Publication Prize": the paper [J67] was selected as the best paper published by a post-graduate student within Electronic Systems Engineering Dept, University of Essex, in 1999-2000.
- Included in "Outstanding Scientists of the 21st Century", 1st Edition, International Biographical Centre, 2007-2008 and 2008-2009.
- Included in Marquis "Who's Who in Science and Engineering", 9th Edition (2006-2007) and 10th Edition (2008-2009)
- Funded by Fujitsu Telecommunications Europe Ltd, for both tuition fees and living expenses, for completing PhD studies at University of Essex.
- Received an EPSRC grant for the tuition fees required for the MSc in "Telecommunication and Information Systems", in University of Essex.
- Received annual awards during secondary school education (every year) for outstanding performance.

## PROFESSIONAL QUALIFICATIONS / ACTIVITIES

- Member of the IEEE Computer and Communication Societies.
- Member of Committee on Network Operations and Management (CNOM).
- Member of editorial boards:
  - [Sensors](#) (Section "Internet of Things") (IF: 3.847), MDPI (2018-)
  - [Information Technology & Tourism](#) (IF: 6.093), Springer Science (2016-)
  - [Journal of Network and Computer Applications](#) (IF: 5.570), Elsevier Science (2013-2020)
  - [Personal and Ubiquitous Computing](#) (IF: 3.006), Springer Science (2011-)
  - [mUX](#): the Journal of Mobile User Experience (previous title: 'Communications in Mobile Computing'), Springer Science (2011-2016)
- Guest editor:
  - Special Issue of *Applied Soft Computing* (Elsevier Science, SCI-indexed) in "Tourist Trip Planning: Algorithmic Foundations", 2022 (**lead guest editor**).
  - Special Issue of *PRESENCE: Virtual and Augmented Reality* (MIT Press) in "Extended Reality (XR) as a Communication Medium", 2022.



- Special Issue of *Sensors* (MDPI, SCI-indexed) in “Smart and Future Applications of Internet of Multimedia Things (IoMT) Using Big Data Analytics”, 2022.
- Special Issue of *Personal and Ubiquitous Computing* (Springer Science, SCI-indexed) σε “Virtual and Mixed Reality in Culture and Heritage”, 2020 (**lead guest editor**).
- Special Issue of *Sensors* (MDPI, SCI-indexed) in “Wireless Systems and Networks in the IoT”, 2020 (**lead guest editor**).
- Special Issue of *Personal and Ubiquitous Computing* (Springer Science, SCI-indexed) in “Mining Social Networks for Local Search and Location-based Recommender Systems”, 2018.
- Special Issue of *Mobile Information Systems* (Wiley/Hindawi, SCI-indexed) in “Advances in Personalized Mobile Services”, 2018.
- Special Issue of *Wireless Communications and Mobile Computing* (Wiley/Hindawi, SCI-indexed) in “Smart Cities: Recent Trends, Methodologies, and Applications”, 2017 (**lead guest editor**).
- Special Issue of *Personal and Ubiquitous Computing* (Springer Science, SCI-indexed) in “Mobile and Pervasive Games”, Volume 19, Issue 3, July 2015 (**lead guest editor**).
- Special Issue of *Pervasive and Mobile Computing* (Elsevier Science, SCI-indexed) in “Mobile and Pervasive Applications in Tourism”, Volume 18, March 2015 (**lead guest editor**).
- Special Issue of *Human-centric Computing and Information Sciences* (Springer Science) in “Pervasive Computing Systems”, March 2013.
- Special Issue of *Computer Journal* (Oxford University Press, SCI-indexed) in “Mobility in Wireless Sensor Networks”, Volume 54, Issue 12, November 2011 (**lead guest editor**).
- Special Issue of *Journal of Systems and Software* (Elsevier Science, SCI-indexed) in “Mobile Applications: Status and Trends”, Volume 84, Issue 11, November 2011 (**lead guest editor**).
- Special Issue of the *Electronic Journal for E-Commerce Tools & Applications* (eJETA) in “Electronic Commerce in Pervasive Environments”, Volume 3, Issue 1, October 2009.
- Technical Program Committee co-Chair:
  - 2023 ACM International Conference on Mobile Human-Computer Interaction (MobileHCI 2023), Athens, Greece, September 26-29, 2023.
  - 16<sup>th</sup> IEEE International Conference on Wireless and Mobile Computing, Networking and Communications (WiMob'2020), virtual conference, October 12-14, 2020.
  - 1<sup>st</sup> International Workshop on Intelligent & Sustainable Urban Transportation (ISUT'2017), in conjunction with the 22<sup>nd</sup> IEEE International Symposium on Computer and Communications, July 3, 2017, Heraklion, Greece.
  - 2<sup>nd</sup> International Workshop on Mobility in Wireless Sensor Networks (MobiSensor'2011), in conjunction with the 7<sup>th</sup> IEEE International Conference on Distributed Computing in Sensor Systems (DCOSS '2011), June 27- 29, 2011, Barcelona, Spain.
  - 1<sup>st</sup> International Workshop on Mobility in Wireless Sensor Networks (MobiSensor'2010), in conjunction with the 6<sup>th</sup> IEEE International Conference on Distributed Computing in Sensor Systems (DCOSS '2010), June 21 - 23, 2010, Santa Barbara, California.
- Organization of Special Sessions:
  - Organizer and co-chair (with G. Pantziou, C. Zaroliagis) of the special session “Sustainable Multimodal Urban Mobility”, in the context of the 28<sup>th</sup> European Conference on Operational Research (EURO 2016), Poznan, Poland, July 3-6, 2016.
  - Organizer and co-chair (with G. Pantziou, C. Konstantopoulos, C. Zaroliagis) of the special session “Tourist Route Planning”, in the context of the 26<sup>th</sup> European Conference on Operational Research (EURO/INFORMS MMXIII), Rome, Italy, July 1-4, 2013.
- Technical Program Committee memberships in International Scientific Conferences:
  - Conference on Sustainable Urban Mobility: CSUM 2022.

- International Conference on Augmented Reality, Virtual Reality and Computer Graphics: SALENTO AVR 2021, SALENTO AVR 2020, SALENTO AVR 2019, SALENTO AVR 2018, SALENTO AVR 2017.
- Symposium on Algorithmic Approaches for Transportation Modelling, Optimization, and Systems: ATMOS'2020.
- European Conference on Ambient Intelligence: Aml 2019, Aml 2018.
- International Conference on Intelligent Environments: IE'18 (Special Session "Gamification, Playfulness, and Ludicity in Intelligent Environments").
- IoT International Innovation Conference: I3C'17
- ACM RecSys Workshop on Recommenders in Tourism: RecTour22, RecTour19, RecTour17.
- International Workshop on Smart City and Ubiquitous Computing Applications: SCUCA'2017, SCUCA'2016.
- International Conference on Telecommunications: ICT'2017, ICT'2016
- Information and Communication Technologies in Tourism: ENTER'2023, ENTER'2020, ENTER'2019, ENTER'2018, ENTER'2017, ENTER'2016.
- IEEE Mediterranean Electrotechnical Conference: MELECON'2016
- IEEE 2<sup>nd</sup> World Forum on Internet of Things: WF-IoT'2019, WF-IoT'2015, WF-IoT'2014.
- IEEE Global Communications Conference: Globecom'2020, Globecom'2019, Globecom'2018, Globecom'2017, Globecom'2015, Globecom'2014, Globecom'2013, Globecom'2009, Globecom'2008, Globecom'2007.
- IEEE International Conference on Wireless and Mobile Computing, Networking and Communications: o WiMob'2019, WiMob'2018, WiMob'2017, WiMob'2016, WiMob'2015, WiMob'2014, WiMob'2013, WiMob'2012, WiMob'2011, WiMob'2010.
- Workshop on Tourism Recommender Systems (in conjunction with the ACM Conference on Recommender Systems - RecSys): TouRS15.
- IEEE International Symposium on Computer and Communications: ISCC'2017, ISCC'2016, ISCC'2015, ISCC'2014, ISCC'2013, ISCC'2011.
- International Conference on Information, Intelligence, Systems and Applications: IISA'2017, IISA'2016, IISA'2015, IISA'2014.
- IEEE Wireless Communications and Networking Conference, Mobile and Wireless Networks track: WCNC'2015, WCNC'2014, WCNC'2013, WCNC'2011, WCNC'2010, WCNC'2007.
- IEEE International Conference on Communications, Selected Areas in Communications Symposium: ICC'2017, ICC'2016, ICC'2015, ICC'2014, ICC'2011.
- International Conference on Connected Vehicles & Expo: ICCVE'2014, ICCVE'2013, ICCVE'2012.
- Annual IEEE Computer Software & Applications Conference: COMPSAC'2014, COMPSAC'2013.
- International Symposium on Wireless Pervasive Computing: ISWPC'2013, ISWPC'2012, ISWPC'2011, ISWPC'2010, ISWPC'2009, ISWPC'2007.
- IEEE International Symposium on Personal, Indoor and Mobile Radio Communications: PIMRC'2016, PIMRC'2013, PIMRC'2012, PIMRC'2009.
- International Conference on Wireless Information Networks and Systems: WINSYS'2018, WINSYS'2013, WINSYS'2009, WINSYS'2008.
- IEEE ICDM Workshop on Data Mining in Networks: DaMNet'2012.
- ACM International Symposium on Mobility Management and Wireless Access: MobiWac'2012.
- IEEE/ACM International Conference on Internet of Things: IoT'2011.
- IEEE International Conference on Communication Technology: ICCT'2011.
- IEEE Vehicular Technology Conference: VTC'2011.
- IEEE INFOCOM, Workshop on Cognitive & Cooperative Networks (C&C Networks): Infocom'2011.

- IADIS International Conference on Mobile Learning: mLearning'2011, mLearning'2010, mLearning'2009, mLearning'2008, mLearning'2007.
- IADIS International Conference on Wireless Applications and Computing: WAC'2010, WAC'2009.
- International Wireless Internet Conference: WICON'2010.
- International Conference on Museology: ICM'2006.
- International Workshop on Mobile Agents for Telecommunication Applications: MATA'2000.
- Session chairing in International Conferences:
  - "Wireless and Mobile Communications" Session: 15th IEEE Symposium on Computers and Communications (ISCC'2010), Riccione, Italy, 22-25 June 2010.
  - "Mobile Computing" session, 2006 Conference on Mobile Computing and Wireless Communications (MCWC'06), September 17-20, 2006, Amman, Jordan.
- Editorial Advisory Board of edited volumes:
  - "Handbook of Research on P2P and Grid Systems for Service-Oriented Computing: Models, Methodologies and Applications", N. Antonopoulos, G. Exarchakos, M. Li and A. Liotta (eds.), Information Science Publishing, ISBN-10: 1615206868, 2009.
- Regular reviewer for:
  - international conferences: IEEE/IFIP NOMS, IEEE ICC, IEEE Globecom, IEEE WCNC, IEEE ISWPC, IEEE WiMob, IEEE IoT'2011, IEEE VTC'2011, IEEE ICCT'2012, IEEE PerCom, IEEE PIMRC, IEEE COMPSAC, IEEE ISCC, IFIP Networking, MATA, International Conference in Museology, PETRA, WINSYS, IADIS Mobile Learning, IADIS WAC, ISPR, Aml.
  - International journals: IEEE Access, IEEE Journal on Selected Areas in Communications, IEEE Transactions on Software Engineering, IEEE Network, IEEE/KICS Journal of Communications and Networks, IEEE Communication Letters, Computer Networks, Computer Communications, Journal of Systems and Software, Pervasive and Mobile Computing, International Journal of Software Engineering and Knowledge Engineering, Personal and Ubiquitous Computing, Software Practice and Experience, Universal Access in the Information Society, IET Software, Journal of Engineering Research, Computing Reviews.

## **EVALUATION OF RESEARCH PROPOSALS**

- Horizon Europe Pathfinder OPEN Call HORIZON-EIC-2022-PATHFINDEROPEN-01 Cut-off 4/5/2022: Vice Chair CrossReader (VC-CR) (19 proposals), remote evaluation (Aug 2022) and Panel Meeting (Sept 2022).
- Horizon Europe Pathfinder OPEN Call HORIZON-EIC-2021-PATHFINDEROPEN-01 Cut-off 25/5/2021: Vice Chair CrossReader (VC-CR) (21 proposals), remote evaluation (Aug 2021) and Panel Meeting (Sept 2021).
- H2020 FET OPEN Call 01-2018-2019-2020 Cut-off 3/3/2020: Vice Chairs Quality Control (QC) and Vice Chairs CrossReaders (CR) (21 proposals); remote evaluation (Aug 2020) and Panel Meeting (Oct 2020).
- H2020 FET OPEN Call 01-2018-2019-2020 Cut-off 18/09/2019: Vice Chairs Quality Control (QC) and Vice Chairs CrossReaders (CR) (24 proposals); remote evaluation (Dec 2019) και Panel Meeting (Jan 2020).
- H2020 FET OPEN Call 01-2018-2019-2020 Cut-off 24/01/2019: Vice Chairs Quality Control (QC) and Vice Chairs CrossReaders (CR) (21 proposals); remote evaluation (Apr 2019) and Panel Meeting (May 2019).
- Ministero dell'Istruzione dell'Università e della Ricerca (MIUR), Italy. Call: Progetti di ricerca di Rilevante Interesse Nazionale (PRIN 2017) (1 proposal), Oct 2018.
- National Science Centre (Narodowe Centrum Nauki - NCN), Poland. Call: OPUS 15 (1 proposal), Oct 2018.

- H2020 FET OPEN Call 01-2018-2019-2020 Cut-off 16/05/2018: Vice Chairs Quality Control (QC) and Vice Chairs CrossReaders (CR) (22 proposals); remote evaluation (Aug 2018) and Panel Meeting (Sept 2018).
- H2020 FET OPEN Call 01-2018-2019-2020 Cut-off 16/05/2018: Vice Chairs Quality Control (QC) and Vice Chairs Crossreaders (CR), Jul-Sept 2018.
- Research Promotion Foundation (RPF), Cyprus, "Integrated Projects" Programme, Funding Scheme: "RESTART 2016-2020" Programmes for Research, Technological Development and Innovation (2 proposals), remote evaluation (Feb 2018) and Panel Meeting (Apr 2018).
- H2020 Future and Emerging Technologies (FET) OPEN RIA Call 2016-2017 (2 proposals), Nov 2017.
- Operational Programme Western Greece 2014-2020, Support of businesses for research projects in the "Microelectronics" and "Advanced Materials, Greece (4 proposals), Jun 2017.
- "Support Researchers with Emphasis on Young Researchers", Operational Programme "Human Resources Development, Education and Life Lifelong Learning" 2014-2020, Greece (3 proposals), May 2017.
- Reviewer in the Operational Programme "Education & Life Long Learning", Action: "Enhancement of human research power through the implementation of doctoral research - Heraklitos II", Greece (10 proposals) Sept 2009.

## **SUPERVISION OF DISSERTATIONS**

### **(A) PhD Dissertations (University of the Aegean, Greece)**

#### **(A1) Completed**

- "Pervasive Role Playing Games: Design, Development and Evaluation of a Research Prototype", by Kasapakis Vlasios; Department of Cultural Technology and Communication, University of the Aegean; defended: February 2016.
- "Software Analysis and Design for Mobile Devices and Applications in Tourism", by Kenteris Michael; Department of Cultural Technology and Communication, University of the Aegean; defended: December 2010.
- "Distributed Data Collection Optimization and Countermeasures Against DoS Attacks in Wireless Sensor Networks", by Mpitiopoulos Aristides; Department of Cultural Technology and Communication, University of the Aegean; defended: December 2009.

#### **(A2) Ongoing**

- "The Body is the Message: Theoretical and Experimental Examination of the Body in Mixed Reality Shared Environments", Dzardanova Elena; registered: February 2017.
- "Collaborative Pervasive Context-aware Games: A Case Study in Cultural Spaces", Chatzidimitris Thomas; Department of Cultural Technology and Communication, University of the Aegean; registered: March 2013.

#### **(A3) Co-supervision**

- Kostaki Chaido "Exercise – Game Systems to Strengthen Wellness, Fitness and Health of Third Age Individuals in Assisted Living Environments", Information & Communication Systems Dept, University of the Aegean; registered: October 2017.

- "Methods and Tools for Evaluating User Experience (UX) in the Design of Interactive Cultural Heritage Systems with Educational Content", Nikolakopoulou Vasiliki; Dept of Product and Systems Design Engineering, University of the Aegean; registered: October 2017.
- "Algorithmic Techniques for Vehicle Sharing Management and Routing of Electric Vehicles with Recharging Restrictions"; Kypriadis Damianos, Computer Science Dept., University of Piraeus. registered: November 2016.
- "The Use of ICTs for Alleviating Peripheral Inequalities: Theory, Technology and Strategy"; Vafopoulos Michael; Dept of Cultural Technology and Communication, University of the Aegean; defended: January 2009.
- "Fuzzy Vector Quantization Methods for Efficient Digital Image Compression"; Tsolakis Dimitrios; Dept of Cultural Technology and Communication, University of the Aegean; defended: July 2012.

#### **(A4) Member of examination board**

- "Evaluation and Players' Performance of the Location-Based Game 'O-MOPSI'". Lahari Sengupta; University of Eastern Finland, School of Computing, Finland; defended: fall 2019.
- "Fuzzy Clustering Methods for Modeling Neural Networks radial Basis Functions", Niros Antonios; University of the Aegean, Department of Cultural Technology and Communication; defended: December 2011.
- "Improvements Upon the Gatekeeping Model in the Context of the Global Industry of Digital Media: The Case of Olympic Games", Kosiavelou Vasiliki; University of the Aegean, Department of Cultural Technology and Communication; defended: October 2010.
- "Digital City: A Methodology for Specifying Functional Requirements", Mavrofides Thomas; University of the Aegean, Department of Cultural Technology and Communication; defended: December 2010.

#### **(B) MSc level**

##### **(B1) MSc program in "Cultural Informatics" (University of the Aegean, Greece)**

- "Flaneur: Augmented Architectural City Tours", Ioannidou Anastasia, 2016-2017.
- "Body Ownership Illusion in Virtual Reality Environments: The Impact of Social Context ", Djardanova Elena, 2016-2017.
- "Dynamic Presentation and of Cultural Content through Google Maps", Chatzikonstantinou Charidimos, 2013-2014.
- "Design and Development of a Mobile Tourist Guide Application Based on Augmented Reality Technologies", Klimos Efstratios, 2012-2013.
- "Development of 3D Multiplatform Games", Sousamlis Panagiotis, 2010-2011.
- "Developing an e-Shop for Desktops and Mobile Devices: A Case Study for the Natural History Museum of the Lesvos Petrified Forest", Batsios Dimitris, 2010-2011.
- "A Mobile Application for the Promotion of Cultural Content", Filios Stefanos, 2009-2010.
- "A Cultural Content Management Platform: A Comics and Animation Case Study", Katehos Nikos, 2009-2010.
- "Molyvos Through the Eyes of four Artists", Georgalis Alexandros, 2008-2009.
- "The Use of PDAs to Enhance Visitors Experience in Open-Air Archaeological Sites – Case Study: The Castle of Mytilene", Tsouvalidou Anastasia, 2007-2008.
- "Management of Archeological Projects Using New Technologies", Andriopoulou Despina, 2006-2007.

- “Evaluation of Authoring Tools and Technologies for Application Development in PDAs”, Kenteris Michael, 2005-2006.
- “Design and Development of a Mobile Commerce Portal”, Zafiri Konstantina, 2005-2006.

#### **(B2) MSc program in “Engineering of Pervasive Computing Systems” (Hellenic Open University, Greece)**

- “TravelAdvisor: A Tourist Trip Recommender System”, Chatziefstratiou Emmanouil, 2022-2023
- “Mobile Application for Supporting Hiking Tourism”, Zortsis Christos, 2021-2022
- “SailTourPlanner: Sea Vessels Route Planing”, Syrigos Elias, 2021-2022.
- “Audio Augmented Reality: A Case Study in Cultural Sites”, Tsepapadakis Michael, 2020-2021.
- “Route Planning for Indoors Environments”, Antonios Pitharoulis, 2020-2021.
- “TravelPal: Recommendation System for Tourist Tour Planning with Constraints”, Papadopoulos Constantinos, 2020-2021.
- “Bike Route Planning”, Gerodimos Theofanis, 2019-2020.
- “Design and Development of a Mobile Application for Assisting the Safe Navigation of Visually Impaired Individuals”, Panayiota Chatzina, 2019-2020.
- “Personalized Trip Planning”, Ragias Christos, 2018-2019.
- “Tourist / Cultural Information Mining from Online Structured Sources”, Giannilos Marios, 2017-2018
- "Development of a Context-Aware Mobile Application for Handling Administrative Procedure Services of the Municipal Police", Gogakis Konstantinos, 2015-2016.
- "A Mobile Application for Participatory Reporting of Everyday Technical Problems in Urban Environments", Bousios Athanasios, 2015-2016.
- "Design and Development of Mobile Augmented Reality Application for Public Transport Users", Kamilakis Manousos, 2014-2015.
- "Design and Deployment of a 'Smart Space' Using Sensors and Actuators", Dridakis Charalambos, 2014-2015.
- "Mobile Tourism: Provision of Ubiquitous Access to Tourist Content for Mobile Users", Petala Christina, 2014-2015.
- "Wireless Sensor Network Based System for Remote Monitoring of Elderly Individuals", Dasios Athanasios, 2013-2014.
- "Development of a Context-Aware Augmented Reality Application to Support Student Tours in an Archaeological Site", Galatis Panagiotis, 2013-2014.
- "Development of an Experimental Prototype and Performance Evaluation of Wireless Sensor Network", Kalliaras Panagiotis, 2012-2013.
- "Deriving Personalized Tourist Itineraries for Mobile Users", Koutsoubogeras Athanasios, 2012-2013.

#### **(B3) MSc program in “Information Systems” (Hellenic Open University, Greece)**

- “Treasure Hunter: A Mobile Treasure Hunting Game”, Foskolou Agni, 2019-2020.
- “DistributedMall: Coalition of Retailer Shops”, Dimou Dimos-Spyridon, 2019-2020.

#### **(C) BSc level, Dept of Product and Systems Design Engineering (University of the Aegean, Greece)**

- “Data Analytics in Tourism”, Gkoutis Hermes, 2020-21.
- “e-Service for Connecting Interior Designers with End Users / Clients”, Belias Nikolaos, 2020-21.
- “Design and Development of a Mobile Application that Promotes Gastronomy: a Crowdsourcing Approach”, Michail Aimilia-Myriam, 2017-2018.
- “Evaluation of User Experience in Virtual Escape Rooms”, Arsenikos George 2017-2018.
- “Design and Development of an Application for Disseminating and Promoting Cultural Events”, Chatzifotiou Savvinos, 2017-2018.

- “Redesigning the Website of the Department of Product and Systems Design Engineering”, Baritakis Ioannis, 2017-2018.

#### **(D) BSc level, Dept of Cultural Technology and Communication (University of the Aegean, Greece)**

- “Implementation of a Mobile Multimedia Application for the Ethnological Museum of Thrace”, Petmezas Panteleimon, 2013-2014.
- “Using Google Maps for the Dynamic Visualization of Cultural Content”, Anastasiou-Sygiorgi, 2010-2011.
- “A Multimedia Application based on Mobile and RFID Technologies for Encouraging SuperMarket Competitiveness”, Rakovitis Christos (A.M. 131/2005116), 2008-2009.
- “A Web Site for the Online Assessment of Instructors and Courses of 3<sup>rd</sup> degree Education”, Mina Evdoxia, 2007-2008.
- “Implementation of a Web Crawler for Searching Cultural Content”, Filios Stefanos, 2007-2008.
- “Bluetooth/PAN Structures Analysis and Experimental Topologies Evaluation”, Apostolides Andreas, 2007-2008.
- “A Peer-to-Peer Architecture for Cultural Data Exchange”, Kosmadoudi Zoi, 2006-2007.
- “Web Site Development for Tegopoulos-Fytrakis Publishing House”, Vasileiou George, 2005-2006.
- “Software Agents as Personal Assistants”, Tzekou Olga, 2004-2005.
- “Web Site Development for Promotion of Music Content», Sofakis George, 2004-2005.

### **ADMINISTRATIVE WORK**

- Department of Product and Systems Design Engineering, University of the Aegean:
  - Head of Department (September 2020 – 2022)
  - Deputy Head of Department (July 2017 - August 2020, September 2022 - now)
  - Deputy Department Representative in the Research Committee (2017-2020)
  - Member of the Internal Evaluation Group (2017-2022)
  - Member of the curriculum committee for the Undergraduate Programme (2017-)
  - Member of the advisory committee for the evaluation of candidate adjunct lecturers (2017-)
  - Head of committees conducting procurements for the selection of contractors (2017-)
  - Member of the IT & Web Committee (2016-)
  - Member of the Doctoral Studies Committee (2016-)
  - Head of Election Committees
- Department of Cultural Technology and Communication, University of the Aegean:
  - Organized several to departmental social, exhibition promotional events
  - Contributed to the authoring of internal evaluation reports for the graduate and post-graduate programmes.
  - Member of several recommendatory committees and authoring teams of reports related with the recruitment of laboratory staff, adjunct lecturers and faculty members.
  - Member of several committees assessing financial and technical offers for the supply of laboratory equipment and consumables.
  - Member of committee interviewing and selecting MSc program candidates.
  - Board member of the committee responsible for university entry exams.

- Department's representative in the University's Academic Committee of the Unit for Innovation and Entrepreneurship (2011-now).
- Member of research labs: Intelligent Multimedia and Virtual Reality Laboratory, Cultural Heritage Management Lab (2004-now)