

Sokratis Kartakis, M.Sc.

Contact

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Education

2006 to 2008 Master in Computer Science (8.52 / 10)

Concentration Areas : *Ambient Intelligence (Aml) and Human Computer Interaction (HCI)*

Master Thesis : *Tool Support for Designing and Generating Accessible User Interfaces in Ambient Intelligence Environments (published in "Computers in Industry" journal - 2010)*

University of Crete, Greece

2002 to 2006 Bachelor in Computer Science (8.22 / 10) with distinction

Ranked 1st among 130 students in graduating class of 2006

University of Crete, Greece

1999 to 2002 High School (18.7 / 20)

Koridallios, Attikis, Greece

Language

November 2012 International English Language Testing System (IELTS)

Listening: 8.0 | Reading: 6.5 | Writing: 6.5 | Speaking 7.5 | Overall: 7.0

Summer 2012 English for Graduate Students and Professionals

Yale University : *English Language Institute*

Concentration Areas : *Writing, Academic Speaking and Presentation Skills*

Publications

Journal Papers Kartakis, S., Sakkalis, V., Tournlakis, P., Zacharioudakis, G. & Stephanidis, C. (2012). Enhancing Health Care Delivery through Ambient Intelligence. **IEEE Sensors Journal**.

Kartakis, S., & Stephanidis, C. (2011). Towards an intelligent assistive home. ERCIM News 87.

Kartakis, S., & Stephanidis, C. (2010). A design-and-play approach to accessible user interface development in Ambient Intelligence environments. Computers in Industry, special issue on "Human-Centered Computing Systems in Industry", 61 (4), 318-328.

Conference Papers Savvides, A., Papaioannou, S., Kartakis, S., Kohler, B., Demiris, G., & Thompson, H. (2012). SIPE: A Sensor Information Processing Engine for Wellness Management Applications. In the Proceedings of the 5st ACM International Conference on PErvasive Technologies Related to Assistive Environments (PETRA 2012), 6-8 June 2012, Crete, Greece.

Kartakis S., Tournlakis, P., Sakkalis, V., Zacharioudakis, G., & Stephanidis C. (2011). Enhancing the patient experience through Ambient Intelligence applications in health care. 5th International Symposium on Ubiquitous Computing and Ambient Intelligence (UCAI'11), Riviera Maya (México), 5-9 December.

Grammenos, D., Georgalis, Y., Partarakis, N., Zabulis, X., Sarmis, T., Kartakis, S., Tournakis, P., Argyros, A., & Stephanidis, C. (2009). Rapid Prototyping of an Aml-augmented Office Environment Demonstrator. In J. Jacko, (Ed.), Human-Computer Interaction - Ambient, Ubiquitous and Intelligent Interaction - Volume 3 of the Proceedings of the 13th International Conference on Human-Computer Interaction (HCI International 2009), San Diego, CA, USA, 19-24 July, pp. 397-406. Berlin Heidelberg: Lecture Notes in Computer Science Series of Springer (LNCS 5612, ISBN: 978-3-642-02579-2).

Grammenos, D., Kartakis, S., Adami, I. & Stephanidis, C. (2008). CAMILE: Controlling Aml Lights Easily. In the Proceedings of the 1st ACM International Conference on Pervasive Technologies Related to Assistive Environments (PETRA 2008), 15-19 July 2008, Athens, Greece. [CD-ROM]. New York: ACM Press.

Workshop Papers Kartakis, S., Antona, M., & Stephanidis, C. (2011). Control smart homes easily with simple touch. International ACM Workshop On Ubiquitous Meta User Interfaces (Ubi-MUI 2011), Scottsdale, Arizona, USA, Nov 28 - Dec 1.

Poster Partarakis, N., Kartakis, S., Antona, M., Paparoulis, G., & Stephanidis, C. (2011): Classic Art for Modern People. HCI (23) 2011: 529-533.

In the News

October 2011 "Entire house in one device". Article in BHMA Science referencing my work in Aml program of ICS-FORTH.

Awards & Honors

2012 NSF Scholar award to attend doctoral consortium of PETRA 2012

2006 – 2008 Research Fellowship by the Institute Computer Science of Foundation for Research and Technology - Hellas (ICS-FORTH) for distinguished of graduate students

2006 "Dretakis" Award for Excellence awarded by the University of Crete for ranking 1st among 130 students in graduating class of 2006

2003 – 2006 Research Fellowship by the Institute Computer Science of Foundation for Research and Technology - Hellas (ICS-FORTH) for distinguished of undergraduate students

2003 – 2004 Award by Greek State Fellowship Foundation (IKY) for ranking 2nd best student of the year (1500€)

2002 – 2003 Award by Greek State Fellowship Foundation (IKY) for ranking 2nd best student of the year (1500€)

Teaching Experience

Science Dept., Technological Institute of Crete, Greece

October 2009 to January 2012

Lecturer and Lab Coordinator

- ✓ Informatics Mechanical Engineering Dept. (C programming)
- ✓ Programming I Electrical Engineering Dept. (C programming)
- ✓ Programming II Electrical Engineering Dept. (C programming)
- ✓ Data Processing Systems Business Administration Dept. (Excel, Access, Databases)
- ✓ Introduction in Computers Accounting Dept. (Word, Power Point, Excel)

Institute of Vocational Training, Greece

July 2010 and July 2011

Examiner and Proctor in Greek State Accreditation Examinations

Mathematics Dept., University of Crete, Greece

February 2009 to July 2011

Teaching Fellow

February 2004 to July 2008

- ✓ Programming (C programming)

Applied Mathematics Dept., University of Crete, Greece
Teaching Fellow

October 2004 to January 2007

- ✓ Programming (C programming)

Work Experience

Yale University, ENALAB, New Haven, Connecticut, US
Visiting Assistants in Research (VAR)

January 2012 to present

- ✓ Involved in research projects of :
 - Smart Buildings in the research area of power consumption
 - Elders Wellness Empowerment Systems
 - Mixed Integer Linear Programming
 - Use semantic information from Sensor Information Processing Engine (SIPE)
 - Embed Sensors' Technologies in Smart Environments

HCI Laboratory of ICS-FORTH, Crete, Greece
Senior Software Engineer and Researcher

November 2009 to December 2011

- ✓ Head researcher and designer of Smart Home Project
- ✓ Designed and implemented:
 - Applications for automatic integration, control and state monitoring of a new smart device in Ambient Intelligence Environments (Control Home Easily)
 - The smart patient room and allow (a) patient to control his environment and use hospital facilities through a touch pad and (b) doctor or nurse to monitor patient in an easier way
 - Applications for measuring and control power consumption, wired and wirelessly
 - Scenario of Smart Hotel Room
- ✓ Involved in implementation of the smart doctor's meeting office table
- ✓ Implemented services to:
 - Control door, set of blinds, fluoresce, colored and led lights, TVs and projectors
 - Retrieve data from sonar, current, motion, ambient light sensors, Phidgets and RFID readers
- ✓ Implemented Windows Phone applications to control all the above appliances through WCF Services and Web Services
- ✓ Implemented full functional library of Xbee Pro
- ✓ Remote configuration of Xbee through Arduino without the need of a PC / Laptop
- ✓ Specialized in research, design and implementation of new scenarios for Smart Home (implementation applications and services to control / monitor sensors and appliances)
- ✓ Evaluation processes for all applications with real users
- ✓ WPF, Silverlight, WCF, SQL server

Military of Greece

November 2008 to November 2009

IT Administrator – Hellenic Army Duty Mandatory

- ✓ Maintained existing websites; Implemented new functionalities
- ✓ Installed network appliances such as printers or routers, etc.
- ✓ Hardware and Software maintenance
- ✓ Maintained users' account in Server
- ✓ Windows Server 2003

HCI Laboratory of ICS-FORTH, Crete, Greece
Senior Software Engineer - Graduate Fellowship

September 2006 to October 2008

- ✓ Implemented:
 - Accessible games
 - Rent PDAs application through barcode reader for e-Guide Project
 - Statistics application, in order to handle visiting rate of exhibits in Museums for e-Guide Project
 - Accessible lights control application over sockets (CAMILLE)
 - Tools for designing and generating accessible user interfaces in Ambient Intelligence Environments
 - Applications and services for the rapid prototype of a Smart Office
- ✓ Specialization in accessible applications and evaluations process
- ✓ Windows Forms, Flash, Actionscript, SQL server

HCI Laboratory of ICS-FORTH, Crete, Greece

July 2003 to August 2006

Software Engineer - Undergraduate Fellowship

- ✓ Design and development of dynamic components for Accessible Web Portals.
- ✓ Involved in Intuition project
- ✓ Specialization in accessible web sites
- ✓ ASP .NET, SQL server

Technical Skills

Proficiency with a wide range of programming languages, concepts and technologies

- ✓ Programming Languages & Environments
 - .NET Framework (C#) WPF, Silverlight (Web, Windows Phone 7), C, XML.
 - ASP.Net, Windows Form, SQL Server, HTML, LINQ, WCF, Web Services
 - JAVA, Flash & Actionscript, Assembly, JAVAScript, UML
- ✓ Platforms
 - Windows & Linux development
 - Embedded: Xbee & Arduino