

# **Curriculum Vitae**

**Anthony Savidis**

[October 2013]

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## I. Employment – Studies – Interests

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<b>Employment:</b>	<b>February 2002 - April 2007</b>		
	Adjunct Assistant Professor	-	CSD, University of Crete
	<b>April 2007 – August 2013</b>		
	Associate Professor	-	CSD, University of Crete
	<b>September 2013 –</b>		
	Full Professor	-	CSD, University of Crete
	<b>October 1999 -</b>		
	Affiliated Researcher	-	ICS-FORTH

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<b>Studies:</b>	<b>1992 (Feb)</b>	
	BSc, Computer Science Department, University of Crete, Greece	
	<b>1994 (Feb)</b>	
	MSc, Computer Science Department, University of Crete, Greece	
	<b>1999 (July)</b>	
	PhD, Department of Electronic Engineering, University of Kent, UK (Submission 2/1998, defense 11/1998 no changes, congregation 7/1999).	

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<b>Interests:</b>	▪ <b>Integrated design and implementation of novel programming languages:</b> language, compiler, virtual machine, standard libraries, tools, debugger backend and integrated development environment
	▪ <b>Software engineering methods, tools and applications:</b> adaptive, automatically generated and distributed interactive systems; design tools and environments; defensive programming and fault tolerance

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**Interests according to ACM Computing Classification System****D. Software****D.1 Programming Techniques**

D.1.5 Object-oriented Programming

**D.2 Software Engineering**

D.2.2 Design Tools and Techniques

D.2.3 Coding Tools and Techniques

D.2.5 Testing and Debugging

D.2.6 Programming Environments

D.2.9. Management

D.2.10. Design

D.2.11 Software Architectures

D.2.13 Reusable Software

**D.3 Programming Languages**

- Inheritance
- Modules, packages
- Polymorphism

D.3.4 Processors

- Code generation
- Compilers
- Debuggers
- Memory management (garbage collection)
- Run-time environments

D.3.3 Language Constructs and Features

- Classes and objects

**II. Citations (1431, h-Index 22)**

Results						
Papers:	117	Papers/author:	54.51	h-index:	22	anthony savidis: all Query date: 2013-10-01 Papers: 117 Citations: 1431 Years: 21
Citations:	1431	Cites/year:	68.14	g-index:	35	
Years:	21	Cites/auth/year:	27.32	hc-index:	12	
Cites/paper:	12.23	hI,annual:	0.57	hI,norm:	12	

### III. Teaching and Thesis Supervision

#### III.1 Teaching (4 courses per year)

Computer Science Department, University of Crete

- **CS340** – *Languages and Compilers* (2004-today).
- **CS352** – *Software Engineering* (2001-today).
- **CS454** – *Development of Intelligent User Interfaces and Games* (2003-today).
- **CS540** – *Advanced Topics in Programming Language Development* (2008-today)
- **CS100** – *Introduction to Programming* (2002-06)
- **CS564** – *Advanced Topics in HCI* (2000-01, co-teaching).
- **The courses CS352, CS454 and CS540 have been newly introduced to the department.**
- **The course CS340 syllabus has been thoroughly revisited from its previous content.**
- **Handouts have been prepared ~700 slides per course.**

Hellenic Open University, Studies in Informatics

- **INF11** – *Principles of Software Engineering* (2004-2005)
- **INF24** – *Software Design*(2011-2012-2013)

#### III.2 Thesis Supervision (21)

*Doctoral (in progress)*

1. *Integrated Metaprogramming Systems: Language, Tools and Practice* (in progress, expected submission October 2013).
2. *Distributed and Cooperative User-Interface Adaptivity* (started February 2011).

*Masters*

3. *Executable Interactive Graphs for Business Processes* (expected spring 2014, in progress).
4. *Staged Model-Driven Generators with Metaprogramming* (expected October 2013, in progress).
5. *Nested Compositing Window Managers* (expected October 2013, in progress).
6. *Automated User-Interface Generation from Annotated APIs in a Dynamic Language* (2013).
7. *Interactive Object Graphs for Debuggers with Improved Visualization, Inspection and Configuration Features* (2011).
8. *An Artificial Presenter Avatar with Social Behaviour, Emotion-Driven Animation and Mini-Games* (2008).
9. *Integrated Platform for Location-Aware Information Systems: Spatial Content Administrator* (2008).
10. *Integrated Platform for Location-Aware Information Systems: Mobile Multimedia Navigator* (2008).
11. *Ambient Cross-Media Board Games: Game Engine, Terrain Editor, Extensible Interface and Adaptive Pluggable Input* (2008).
12. *Very Rapid Software-Design Prototyping with Interactive 3d CRC Cards* (2007).
13. *Circular Meta-IDE for the Delta Language: Dynamic Extensibility, Remote Deployment, Interactive Introspection and Syntax Directed Editor* (2007).
14. *Circular Meta-IDE for the Delta Language: Extensibility Layer for Delta, Debugger, Runtime Adaptation and Project Manager* (2007).
15. *Basic Building Blocks for Ambient Information Systems* (2007).
16. *Library of Lightweight Graphical Interaction Objects for the C++ Language with a Remote Implementation in Java* (2005).
17. *Accessible e-Learning Platform for Braille* (2004).

18. Library of Interaction Objects with Embedded User Interface Scanning Support (2004).
19. Dual Web Browser with Automatic Reproduction and Synchronization of the Alternative Interface Instances (2003).
20. Applying the Unified User-Interface Design Method for the Development of Web Portal Building Blocks (2002).
21. Development of a Toolkit for Programming Non-Visual User Interfaces (2001).

## IV. Development of Programming Languages and Software Engineering Tools (700 KLOCs)

*From ~700 KLOCs the ~250 KLOCs have been entirely written by Anthony Savidis*

### IV.1 Languages (total 4, 250 KLOCs)

#### IV.1.1 *Delta Language (2004-present, ~150 KLOCs)*

<http://www.ics.forth.gr/hci/files/plang/Delta/Delta.html>

Entire design and implementation of main language (meta-layer by PhD student)

#### IV.1.2 *DMSL Language (2001-2003, ~10 KLOCs)*

<http://www.ics.forth.gr/hci/files/plang/DMSL.ZIP>

Entire design and implementation of initial version

#### IV.1.3 *I-GET Language (1997-2002, ~80 KLOCs)*

[http://www.ics.forth.gr/hci/files/plang/IGET\\_WINDOWS.zip](http://www.ics.forth.gr/hci/files/plang/IGET_WINDOWS.zip)

Entire design and implementation

#### IV.1.4 *FLIP and JET Languages (2005, ~10 KLOCs)*

[http://www.ics.forth.gr/hci/files/plang/JET\\_LANGUAGE.ZIP](http://www.ics.forth.gr/hci/files/plang/JET_LANGUAGE.ZIP)

Entire design and implementation

### IV.2 Software Engineering Tools (total 5, 460 KLOCs)

#### IV.2.1 *Sparrow IDE (2007-present, ~250 KLOCs)*

<http://www.ics.forth.gr/hci/files/plang/sparrow-setup.exe>

In this tool has served only as chief software architect, software designer and development manager. Developed build dependency system, auto-completion and source navigation (IntelliSense) system

#### IV.2.2 *Mercury development platform (2005-2009, ~70 KLOCs)*

Not publicly available.

Chief software architect, software designer and development manager.

#### IV.2.3 *Voyager development toolkit (2002-2004, ~60 KLOCs)*

[http://2wear.ics.forth.gr/2wear\\_source.ZIP](http://2wear.ics.forth.gr/2wear_source.ZIP)

Entire design and implementation

#### IV.2.4 *Flying Circus software design tool (2007-2008, ~30KLOCs)*

<http://www.ics.forth.gr/hci/files/plang/FLYINGCIRCUS.rar>

In this tool has served only as the development manager

#### IV.2.5 *Starlight development platform (2006-2007, ~50 KLOCs)*

Not publicly available, 10 commercial products out of it.

In this tool has served only as chief software architect, software designer and development manager.

## V. Research Projects (32)

1.	VERITAS (Grant Agreement no. 247765), EC, IST "Virtual and Augmented Environments and Realistic User Interactions To achieve Embedded Accessibility Designs" IP, 1/1/2010 - 31/12/2013
2.	OASIS (Grant Agreement no. 215754), EC, IST "Open architecture for Accessible Services Integration and Standardisation" IP, 1/1/2008 - 31/12/2011
3.	Ministry of Culture – «Mobile Museum Guides» 3/2007-10/2008
4.	INTERREG IIIB ARCHIMED - EMBD-PANORAMA, EC, Regional Location-based Mobile Museum Guide 1/6/2006 - 30/10/2008
5.	InterLink (Contract no. 34561), EC, FET, CA "International Cooperation Activities in Future and Emerging ICTs" 1/10/2006 - 31/3/2009
6.	Beyond The Horizon (Contract no. 006622), EC, FET, CA "Anticipating Future and Emerging Information Society Technologies " 1/10/2005 - 31/9/2006
7.	ASK-IT (Contract no. 511298), EC, IST "Ambient Intelligence System of Agents for Knowledge-based and Integrated Services for Mobility Impaired Users". IP, 48 months (2004-2008).
8.	STARLIGTH (Pedagogical Institute , Greek Ministry of Education) "Provision of Accessible Educational Software for Primary and Lower Secondary Special and Mainstream Education." Software Product, (2008)
9.	eGovernment (ΚτΠ ΑΕ) "Access of Disabled People to eGovernment Services" 1/3/2007 - 30/11/2008
10.	MICOLE IST-511592, EC, IST "Multimodal collaboration environment for inclusion of visually impaired children" STREP, 36 months (2004-2007).
11.	INTUITION (Contract no. 507248), IST "Virtual reality and virtual environments applications for future workplaces". <i>Network of Excellence</i> , 48 months (2004-2008).
12.	DELOS (Contract no. G038-507618), IST "Digital Libraries ". <i>Network of Excellence</i> , 48 months (2004-2008)
13.	IST 2001-38833 - D4ALLnet "Design for All" <i>Network of Excellence</i> , 36 months (2003-2005).
14.	IST-2000-26449 - SEN-IST-NET "Information Society Technologies for Special Educational Needs" <i>Network of Excellence</i> , 36 months (2001-2003).
15.	IST-2000-26089 – VIEW, EC, IST "Virtual and Interactive Environments for Workplaces of the Future" 36 months (2001-2003).



16.	TMR Programme – TACIT, EC, IST "Theory and Applications of Continuous Interaction Techniques" 1/1/1998 - 31/12/2002
17.	EQUAL – PROKLISI (CHALLENGE), Greek Ministry of Employment "Coding and verification of discrimination facts and conditions, and methods/actions to beat unemployment for target groups facing disabilities and possibly additional multiple discriminations" 24 months (2002 – 2004)
18.	EYTEXNOS (Ministry of Health and Social Affairs), Greek Ministry of Education "Training in Information and Telecommunication Assistive Technologies for People with Disabilities" 36 months (2/5/2003 - 30/6/2005)
19.	IST-1999-14101 - IS4ALL "Information Society for All" Thematic Network, 36 months (2001-2003).
20.	IST-2000-25286 - 2WEAR, EC, FET "A Runtime for Adaptive and Extensible Wireless Wearables" 36 months (2001 - 2003)
21.	ΚΠΣ00006 ARISTEIA (EXCELLENCE) "Emerging Domains of Excellence in Informatics and Telecommunications" 24 months (2002-2003)
22.	IST-1999-20656 – PALIO, EC, IST "Personalised Access to Local Information and Services for Tourists" 30 months (2000 - 2003)
23.	EPET-II: HERMES "New Technologies for Distance Education" 18 months (2000-2001).
24.	EPET-II: NAUTILUS, Greek Ministry of Research "Unified Web Browser for People with Disabilities" 1998-1999
25.	1998 HESTIA: Vocational Training of People with Special Needs in Computer-based Working Environments (HORIZON)
26.	ACTS AC042 – AVANTI, EC "Adaptive and Adaptable Interactions for Multimedia Telecommunications Applications" 36 months (1995-1998).
27.	TIDE 215 - GUIB-II, EC "Textual and Graphical User Interfaces for Blind People" Διάρκεια 18 μήνες (1993-1994)
28.	TIDE TP1001 – ACCESS, EC "Development platform for unified ACCESS to enabling environments" 36 months (1994-1996).
29.	RACE R2009 - IPSNI-II, EC "Access to B-ISDN services and applications by people with special needs" 36 months (1992-1994).
30.	HORIZON - REGION OF CRETE "Development of educational software and computer-based vocational training for disabled people" 18 months (1992-1993).

31.	TIDE 103 – GUIB, EC “Textual and Graphical User Interfaces for Blind People” 18 months (1991-1993).
32.	HANDYNET, EC “Development of a European Information System for people with special needs” 36 months (1989-1992).

### V.1 Attracting Funding (~12M€)

Contributor as primary or key editor of research proposals, mainly of the European Union, that resulted in actual funded projects for ICS-FORTH of more than 12M€. The most important are listed below, showing mentioning the main technical of ICS-FORTH as well as the funding it received in parenthesis.

- Ministry of Culture (1.8M€)
  - *Development platform for Location-Based Information Systems*
- PANORAMA (760K€)
  - *Development Platform for Location-Based Information Systems*
- OASIS (335K€)
  - *Adaptive Mobile User-Interfaces*
- ASK-IT (490K€)
  - *Adaptive Mobile User-Interfaces*
- STARLIGHT (660k€)
  - *Authoring and Player System for Dual Electronic Books*
- MICOLE (210K€)
  - *Multimodal Video Games*
- 2WEAR (1.2M€)
  - *Development Platform for Dynamically Distributed User-Interfaces*
- INTUITION (245K€)
  - *Network of Excellence - Virtual Reality Environments*
- VIEW (500K)
  - *Virtual Reality Environments and Applications*
- D4ALLnet (310K€)
  - *Network of Excellence – Universal Access Tools*
- EQUAL (170K€)
  - *Universal Access in Workplaces*
- eGovernment (820K)
  - *Accessible e-Government Services*
- PALIO (550K€)
  - *Adaptive Information Systems*
- NAUTILOS (200K€)
  - *Adaptive Web Browser*
- AVANTI (1M€)
  - *Adaptive Web Browser*
- RACE IPSNI-II (1.1 M€)
  - *Accessible Integrated Services*
- GUIB-I and II (425K€)
  - *Dual User-Interface Software Toolkits*
- ACCESS (750M€)
  - *Next Generation User-Interface Programming Languages*

## V.2 International Committees

### V.2.1 Conference Committees (34)

1. Program Committee, International ERCIM Workshop on Software Evolution 2004, 2006.
2. Program Committee, IFIP conference *Interact 2005, 2007, 2009, 2011, 2013*.
3. Program Committee, International ERCIM Workshop on *Rapid Integration of Software Engineering Techniques*, RISE 2004, RISE 2005, RISE 2006, RISE 2007 (πρακτικά Springer LNCS).
4. Steering Committee, ERCIM Working Group on *Software Evolution* (από το 2004).
5. Program Committee, *International Conference on Web Information Systems and Technologies* (WEBIST, 2005, 2006, 2007, 2009, 2011, 2013).
6. Program Committee, *IADIS Interfaces and Human Computer Interaction* (IHCI) Conference, 2005, 2006, 2007, 2008, 2009, 2010.
7. Program Committee, Human Computer Interaction International Conference, HCII 2001, HCII 2003, HCII 2005, HCII 2007, HCII 2009, HCII 2011, HCII 2013, HCII 2014.
8. Program Committee, *Pervasive Computing 2004* conference.
9. Program Committee, IFIP World Computer Congress 2004 - Workshop on *Technology Enhanced Learning*.
10. Program Committee, *IADIS International Conference on WWW / Internet* 2004, 2005, 2006.
11. Program Committee, International ERCIM Workshop on User Interfaces for All, UI4ALL 1999, UI4ALL 2000, UI4ALL 2002, UI4ALL 2004, UI4ALL 2006.
12. Program Committee, International Conference on Computer-Aided Design of User Interfaces, CADUI 2001, CADUI 2002.
13. Review Committee, ACM SIGCHI Conference on Human Factors in Computing Systems, CHI 1996, CHI 1997, CHI 2000, CHI 2002, CHI 2009, CHI2010.
14. Review Committee, ACM SIGCHI Conference on Universal Usability, CUU 2000.
15. Invited Member, [Aml@Work](#) of the European Commission (IST), 2004, 2005.
16. Program Committee, *International Symposium on Pervasive Computing and Applications*, SPCA06, IEEE.
17. Program Committee, TOOLS (Objects, Models, Components, Patterns) EUROPE 2007, 2008 (Springer LNBIP).
18. Program Committee, Engineering Interactive Systems 2007 (EHCI 2007), in cooperation with IFIP WG2.7/13.4 and IFIP WG 13.2., Springer LNCS.
19. Program Committee, 1<sup>st</sup> IEEE Workshop on Model-Driven Software Evolution, in cooperation with the 11th European Conference on Software Maintenance and Reengineering, CSMR 2007.
20. Program Committee, Workshop on Model Driven Software Engineering for Ambient Intelligence Applications, in cooperation with the European Conference on Ambient Intelligence 2007 (Ami-07).
21. Program Committee, Special Thematic Session (STS) on Human-Computer Interaction & Usability for Elderly (HCI4AGING as part of ICCHP 2008, July 9–11, 2008, University of Linz, Austria, Springer LNCS).
22. Program Committee, USAB Symposium on *HCI in Work & Learning, Life & Leisure*, 2010, 2011, Springer, LNCS.

23. Program Committee, 1<sup>st</sup> IEEE Workshop on *Self-Adaptive Software Engineering (SASE)* in cooperation with the 11th European Conference on Software Maintenance and Reengineering, CSMR 2008.
24. Program Committee, Workshop on *Software Engineering for Resilient Systems (SERENE)*, 2008, 2009, 2010 (ACM SIGSOFT) και 2011, 2012,2013 (Springer).
25. Review Committee, IEEE/ACM ICMI-MLMI 2009 (joint SIGCHI *International Conference on Multimodal Interaction* and *Machine Learning and Multimodal Interaction* conferences), Cambridge, MA, 2009.
26. Review Committee, Workshop on *Multimedia Systems and Human-Machine Interaction (MS-HMS)* 2009, Springer LNCS.
27. Program Committee, ACM ACE 2009 International Conference on *Advances in Computer Entertainment Technology*.
28. Review Committee, *Pervasive Computing 2010* conference, Springer LNCS.
29. Program Committee, International Conference on *Software Engineering for Outsourced and Offshore Development (SEAFOOD 2010, 2013)*, Springer LNBIP.
30. Program Committee, ACM EICS 2011, 2013 Symposium on *Engineering Interactive Computing Systems*.
31. Program Committee, 4th International Conference on Information, Intelligence, Systems and Applications (IISA 2013), IEEE.
32. Program Committee, 17<sup>th</sup> Panhellenic Conference on Informatics (PCI 2013), ACM (International Conference Proceedings series).
33. Program Committee, South CHI 2013 ACM/IEEE Conference on Human Factors in Computing Systems & Informatics.
34. Program Committee, MODELSWARD 2014, International Conference on Model-Driven Engineering and Software Development.

### **V.2.2 ERCIM Working Groups (5)**

1. *Rapid Integration of Software Engineering Techniques (RISE, closed 2007)*
2. *Software Engineering of Resilient Systems (SERENE)*
3. *Software Evolution (EVOL)*
4. *User Interfaces for All (UI4ALL, closed 2006)*
5. *Smart Environments and Systems for Ambient Intelligence (SESAMI, closed 2008)*

**V.2.3 Journal Reviewer (18)**

1. *Wiley-Blackwell* Journal, Software Practice & Experience (SP&E)
2. *Springer* Journal, Automated Software Engineering (AUSE)
3. *Elsevier* Journal, Systems and Software (JSS)
4. *Elsevier* Journal, Information and Software Technology (IST)
5. *Elsevier* Journal, Science of Computer Programming (SCP)
6. Communications of the *ACM* (CACM)
7. *ACM* Journal, Computers in Entertainment (CIE)
8. *Springer* Journal, User Modelling and User Adapted Interaction (UMUAI)
9. *Elsevier* Journal, Knowledge Based Systems (KBS)
10. *ACS* Journal, Research and Practice in Information Technology (JRPIT)
11. *ACM* Journal, Transactions in Computer-Human Interaction (TOCHI)
12. *ACM* Journal, Transactions in Accessible Computing (TACCESS)
13. *Elsevier* Journal, Interacting with Computers (IwC)
14. *Emerald* Journal, Pervasive Computing and Communications (JPCC)
15. *Springer* Journal, Universal Access in the Information Society (IJUAIS)
16. *Springer* Journal, World Wide Web (WWWJ)
17. *Springer* Journal, New Generation Computing (NGC)
18. *World Scientific* Journal, Artificial Intelligence Tools (JAIT)

**V.2.4 Journal Editorial / Review Board (5)**

1. *ACM* Journal, Computers in Entertainment (CIE), since 2010.
2. *Hindawi* Journal Advances in Human-Computer Interaction (AHCI), since 2010.
3. *Springer* Journal, Universal Access in the Information Society (UAIS), since 2007.
4. *Emerald* Journal, of Pervasive Computing and Communications (JPCC), since 2004.
5. Journal of Computational Intelligence (JCI), since 2003.

## VI. Publications

### I. Peer reviewed journal publications (29)

- [J1] Lilis, Y., Savidis, A (2013, expected). *An Integrated Development Framework for Tabletop Computer Games*. ACM Computers in Entertainment. Accepted for publication. [Rank B](#)
- [J2] Lilis, Y., Savidis, A (2013). *An Integrated Approach to Source-Level Debugging and Compile Error Reporting in Meta-Programs*. Special Issue, TOOLS 2012 (Selected Papers). In Journal of Object Technology (JOT), ETH Zurich, Vol. 12, No. 3 (August 2013), 26 pages. [Rank B](#)
- [J3] Savidis, A., Stephanidis, C (2013, expected). *Software Refactoring Process to Accommodate User-Interface Adaptivity in Existing Applications*. Journal of Interacting with Computers (IwC), Elsevier. In Press. [Rank B](#).
- [J4] Karouzaki, E., Savidis, A. (2012). *A Framework for Adaptive Game Presenters with Emotions and Social Comments*. In International Journal of Computer Games Technology. Hindawi Publishing, Vol. 2012, Article ID 929814, 18 pages. [Rank C](#).
- [J5] Savidis, A. (2011). *Integrated implementation of dynamic untyped object-based operator overloading*. Journal of Software Practice & Experience. Wiley-Blackwell, Vol. 41, No. 11, pp 1155-1184. [Rank A](#)
- [J6] Savidis, A, Lilis, Y (2009). *Support for language independent browsing of aggregate values by debugger backends*. In Journal of Object Technology (JOT), ETH Zurich, Vol. 8, No. 6, September – October 2009, pp 159-180. [Rank B](#)
- [J7] Gramenos, D., Savidis, A., Stephanidis, C. (2009). *Designing Universally Accessible Games*. In ACM Journal on Computers in Entertainment (CIE). Vol.7, Issue 1 (February 2009), Article No. 8 (online). [Rank B](#)
- [J8] Savidis, A. (2008). *An enhanced form of dynamic untyped object-based inheritance*. In Journal of Object Technology (JOT), ETH Zurich, Vol. 7, No. 4, May - June 2008, pp 101-122. [Rank B](#)
- [J9] Savidis, A. (2007). *Rapidly Implementing Languages to Compile as C++ without Crafting a Compiler*. Journal of Software Practice & Experience. Vol. 37, Issue 15, Wiley-Blackwell, pp 1577-1620. [Rank A](#)
- [J10] Savidis, A., Grammenos, D. Stephanidis, C. (2007). *Developing Inclusive e-Learning and e-Entertainment to Effectively Accommodate Learning Difficulties*. Springer International Journal for Universal Access in the Information Society, Volume 5, Issue 4, pp 401-419. [Rank C](#)
- [J11] Keates, S., Adams, R., Bodine, C., Czaja, S., Gordon, W., Gregor, P., Hacker, E., Hanson, V., Kemp, J., Laff, M., Lewis, C., Pieper, M., Richards, J., Rose, D., Savidis, A., Schultz, G., Snayd, P., Trewin, S., Varker, P. (2007). *Cognitive and learning difficulties and how they affect access to IT systems*. Springer International Journal for Universal Access in the Information Society, Volume 5, Issue 4, pp 329-339. [Rank C](#)
- [J12] Grammenos, D., Savidis, A. (2006). *Unified Design of Universally Accessible Games (Say What?)*. Chosen as 'Feature Article', In *Art & Business of Making Games* (December 2006), Electronic reviewed magazine, CMP Game Group, USA (online). [Unranked - prestigious in the domain](#)
- [J13] Savidis, A. (2006). *Application Invariants: Design by Contract Augmented with Deployment Correctness Logic*. Journal of Software Practice & Experience. Vol. 36, Issue 3, John Wiley-Blackwell, pp 255-282. [Rank A](#)

- [J14] Savidis, A., Stephanidis, C. (2006). *Automated User Interface Engineering with a Pattern Reflecting Programming Language*. In *Journal for Automated Software Engineering*. Vol. 13, No. 2 (April 2006), Springer, pp 303-339. [Rank A](#)
- [J15] Antona, M., Savidis, A., Stephanidis, C. (2006). *A process-oriented interactive design environment for automatic user-interface adaptation*. *International Journal of Human Computer Interaction, IJHCI*, 20(2), pp 79-116. [Rank B](#)
- [J16] Savidis, A., Grammenos, D., Stephanidis, C. (2006). *Developing Inclusive e-Learning Systems*. *Springer International Journal for Universal Access in the Information Society*. June 2005, Volume 5, Number 1, pp 51-72. [Rank C](#)
- [J17] Savidis, A. (2005). *More dynamic imperative languages*. In *ACM SIGPLAN (SIG on Programming Languages) Notices*. Vol. 40, No. 12 (December 2005), ACM, pp 6-13. [Rank B](#)
- [J18] Savidis, A. (2005). *Introductory Teaching of Imperative Programming through an Anthropomorphic Computation Model*. In *ACM SIGCSE (SIG on Computer Science Education) Bulletin, inroads*, June 2005, Volume 37, Issue 2, pp 49-53, ACM. [Rank C](#)
- [J19] Lalis, S., Karypidis, A. - Savidis, A. (2005). *Ad-Hoc Composition in Wearable and Mobile Computing*. In *Communications of the ACM (CACM)*, Volume 48, Issue 3, March 2005, pp 67-68. [Rank A](#)
- [J20] Savidis, A., Antona, M., Stephanidis, C. (2005). *A Decision-Making Specification Language for Verifiable User-Interface Adaptation Logic*. *International Journal of Software Engineering and Knowledge Engineering*. Vol. 15, No. 6 (December 2005), World Scientific Publishing, pp 1063-1095. [Rank B](#)
- [J21] Savidis, A., Stephanidis, C. (2005). *Distributed Interface Bits: Dynamic Dialogue Composition from Ambient Computing Resources*. In *ACM-Springer Journal on Personal and Ubiquitous Computing*, Vol. 9, No. 3, May 2005, pp 142-168. [Rank B](#)
- [J22] Savidis, A., Stephanidis, C. (2005). *Inclusive Development: Software Engineering Requirements of Universally Accessible Interactions*. *Journal of Interacting with Computers (IwC)*, Elsevier, Vol. 18, No. 1. (January 2006), pp. 71-116. [Rank B](#)
- [J23] Savidis, A (2004). *The Implementation of Generic Smart Pointers for Advanced Defensive Programming*. *Journal of Software Practice & Experience*, Vol. 34, Issue 10, Wiley-Blackwell, pp 977-1009. [Rank A](#)
- [J24] Savidis, A., Stephanidis, S. (2004). *Unified User Interface Development: Software Engineering of Universally Accessible Interactions*. In *Springer International Journal for Universal Access in the Information Society*, Vol. 3, Issue 3. [Rank C](#)
- [J25] Savidis, A., & Stephanidis, C. (2004). *Unified User Interface Design: Designing Universally Accessible Interactions*. *Journal of Interacting with Computers (IwC)*, Elsevier, Vol. 16, No. 2. (April 2004), pp. 243-270. [Rank B](#)
- [J26] Savidis, A., Maou, N., Pachoulakis, I., & Stephanidis, C. (2002). *Continuity of interaction in nomadic interfaces through migration and dynamic utilization of I/O resources*. In *Springer International Journal for Universal Access in the Information Society*, 1 (4), 274-287. [Rank C](#)
- [J27] Stephanidis, C., & Savidis, A. (2001). *Universal Access in the Information Society: Methods, Tools and Interaction Technologies*. In *Springer International Journal for Universal Access in the Information Society*, Vol. 1, Issue 1, pp 40-55. [Rank C](#)
- [J28] Akoumianakis, D., Savidis, A., & Stephanidis, C. (2000). *Encapsulating Intelligent Interactive Behaviour in Unified User Interface Artefacts*. In *International Journal of Interacting with Computers*, Elsevier, Vol.12, Issue 4, pp 383-408. [Rank B](#)

- [J29] Savidis, A., & Stephanidis, C. (1998). *The HOMER UIMS for Dual User Interface Development: Fusing Visual and Non-visual Interactions*. In *International Journal of Interacting with Computers*, Elsevier, Vol. 11, Issue 2, pp 173-209. Rank B

## II. Peer reviewed conference and workshop publications (44)

- [C1] Savidis, A., Maragudakis, A. (2013). *Mixing Geometrically Diverse Window Managers*. In proceedings of the 9th International Symposium on Visual Computing (ISVC'13), Rethymnon, Greece (July 29-31) Springer LNCS. To appear. 35% rate, Rank C.
- [C2] Lilis, Y., Savidis, A., Valsamakis, Y. (2013). *Self Model-Driven Engineering through Metaprograms*. In proceedings of the 17th Panhellenic Conference on Informatics (PCI 2013), Thessaloniki, Greece (September 19 – 21), ACM. To appear. 50% rate.
- [C3] Lilis, Y., Savidis, A. (2012). *Implementing Reusable Exception Handling Patterns with Compile-Time Metaprogramming*. In the proceedings of the SERENE 2012 4th International Workshop on Software Engineering for Resilient Systems, Pisa, Italy (September 27-28) , Springer LNCS 7527, pp 1-15, 35% rate
- [C4] Lilis, Y., Savidis, A. (2012). *Supporting Compile-Time Debugging and Precise Error Reporting in Meta-Programs*. In proceedings of the TOOLS 2012 International Conference on *Technology of Object-Oriented Languages and Systems* (29–31 May), Prague, Czech Republic, Springer LNCS 7304, pp 155-170. 30% rate, Rank B
- [C5] Savidis, A. (2011). *Supporting Cross-Language Exception Handling when Extending Applications with Embedded Languages*. In the proceedings of the SERENE 2011 3<sup>rd</sup> International Workshop on Software Engineering of Resilient Systems, Geneva, Switzerland (September 29-30), Springer LNCS No 3943, pp 93-99. 30% rate
- [C6] Savidis, A., Koutsopoulos, N. (2011). *Interactive Object Graphs for Debuggers with Improved Visualization, Inspection and Configuration Features*. In the proceedings of the 7<sup>th</sup> International Symposium on Visual Computing (ISVC 2011), Las Vegas, Nevada (September 26-28), Springer LNCS No 6938, pp 259-268. 35% rate, Rank C
- [C7] Savidis, A., Lilis, Y. (2010). *Player-Defined Configurable Soft Dialogues: An Extensible Input System for Tabletop Games*. In the proceedings of the ACM Conference on Interactive Tabletops and Surfaces (ITS 2010), Saarbrücken, Germany (November 7-10), (two pages) poster paper, pp 287 - 288. 30% rate
- [C8] Savidis, A., Stephanidis, C. (2010). *Software Refactoring Process for Adaptive User Interface Composition*. In the proceedings of the 2<sup>nd</sup> ACM Conference on Engineering Interactive Computer Systems (EICS2010), Berlin, German (June 19-23), pp 19-28. 25% rate, Rank A
- [C9] Lilis, Y., Savidis, A. (2009). *Structured Tiles: Directed Subgraphs of Recurring Path Patterns in Board Games*. In the proceedings of the ACM Conference on Advances in Computer Entertainment Technology (ACE2009), Athens, Greece (October 29-31) (four pages), short paper (ACM electronic proceedings). 28% rate
- [C10] Savidis, A., Karouzakh, E. (2009). *Artificial Game Presenter Avatars*. In the proceedings of the ACM ACE 2009 International Conference on Advances in Computer Entertainment Technology (ACE2009), Athens, Greece (October 29-31), (two pages), poster paper. 40% rate
- [C11] Savidis, A., Lilis, Y. (2008). *Adaptable Pluggable Multimodal Input with Extensible Accessible Soft Dialogues for Games*. In the proceedings of the ACM Conference on Advances in Computer Entertainment Technology (ACE2008), Yokohama, Japan (December 3-5), pp 155-150. 28% rate
- [C12] Savidis, A., Papadakos, P., Zargianakis, G (2008). *Rapid Visual Design with Semantics Encoding through 3d CRC Cards*. In ACM Symposium on Software Visualization (SoftVis2008), Herrsching am Ammersee (September 16-17), Germany, pp 193-196. 25% rate, Rank A



- [C13] Savidis, A. (2008). *Refactoring for Adaptivity*. In 1<sup>st</sup> Workshop on Self Adaptive Software Engineering (SASE 2008), part of IEEE 12<sup>th</sup> European Conference on Software Maintenance and Reengineering (CSMR2008). IEEE Press, CSMR Post-proceedings. 40% rate
- [C14] Savidis, A., Papadakos, P., Zargiannakis, G. (2008). *Immersive 3d Visualizations for Software-Design Prototyping and Inspection*. In the proceedings of the 4th International Symposium on Visual Computing (ISVC08), Springer LNCS Vol. 5358, Las Vegas, Nevada (December, 1-3), pp 889-900. 35% rate, Rank C
- [C15] Savidis, A., Zidianakis, M., Kazepis, N., Dubulakis, S., Gramenos, D., Stephanidis, C. (2008). *An Integrated Platform for the Management of Mobile Location-Aware Information Systems*. In proceedings 6th International Conference on Pervasive Computing (Pervasive 2008), Springer LNCS Vol. 5013, pp 128-145. 18% rate, Rank A
- [C16] Gramenos, D., Savidis, A., Georgalis, Y., Bourdenas, T., Stephanidis, C. (2007). *Dual Educational Electronic Textbooks: The Starlight Platform*. In proceedings of the 9th International ACM SIGACCESS Conference on Computers and Accessibility (ASSETS 2007), Arizona (October 15-17), USA, pp 107 – 114. 30% rate
- [C17] Savidis, A., Bourdenas, T., Georgalis, J. (2007). *An Adaptable Circular Meta-IDE for a Dynamic Programming Language*. In proceedings of the *RISE 2007* international workshop on *Rapid Integration of Software Engineering Methods*, Luxemburg, November 2007. 35% rate
- [C18] Savidis, A., Stamou, A., Stephanidis, C. (2006). *An Accessible Multimodal Pong Game Space*. In proceedings of the 9<sup>th</sup> *International Workshop on User Interfaces for All* (September 27-28), Bonn, Germany, Springer LNCS 4397, pp 405-418. 30% rate
- [C19] Gramenos, D., Savidis, A., Georgalis, Y., Stephanidis, C. (2006). *Access Invaders: Developing a Universally Accessible Action Game*. In proceedings of the *ICCHP 2006*, LNCS Vol. 4061, Springer, pp 388-395.
- [C20] Savidis, A. (2005). *Dynamic imperative languages for runtime extensible semantics and polymorphic meta-programming*. In proceedings of *RISE 2005* International Workshop on *Rapid Integration of Software Engineering Methods*. Guelfi, N., Savidis, A. (Eds), Springer LNCS Vol. 3943, pp 113-128. 30% rate
- [C21] Savidis, A. (2004). *Supporting Virtual Interaction Objects with Polymorphic Platform Bindings in a User Interface Programming Language*. In proceedings of the *RISE 2004* international workshop on *Rapid Integration of Software Engineering Methods*, Lecture Notes in Computer Science (LNCS), Vol. 3475, Springer –Verlag, pp 11-23. 30% rate
- [C22] Savidis, A. (2004). *Dynamic Software Assembly for Automatic Deployment-Oriented Adaptation*. In *SETRA 2004* workshop on *Software Evolution through Transformations: Model-based vs. Implementation-level Solutions*, ESF. In Elsevier *Electronic Notes on Theoretical Computer Science* (ENTCS), Vol. 127, Issue 3, pp 207-217. 30% rate
- [C23] Ntoa, S., Savidis, A., Stephanidis, C. (2004). *FastScanner: An Accessibility Tool for Motor Impaired Users*. In proceedings of the *ICCHP 2004*, LNCS Vol. 3118, Springer, pp 796-803. 35% rate
- [C24] Lalis, S., Karypidis, A., Savidis, A., Stephanidis, C. (2003). *Runtime Support for a Dynamically Composable and Adaptive Wearable System*. IEEE International Symposium on Wearable Computing, ISWC 2003, pp 18-21. 20% rate, Rank A
- [C25] Stephanidis, C., Savidis, A., Akoumianakis, D. (1997). *Unified Interface Development: A step towards User Interfaces for All*. In G. Anogiannakis, C. Bühler, & M. Soede (Eds.), *Proceedings of the 4th European Conference for Advancement of Assistive Technology (AAATE '97)*, Porto Carras, Greece, 29 September - 2 October (pp. 29-33). Amsterdam: IOS Press.

- [C26] Stephanidis, C., Paramythis, A., Karagiannidis, C., & Savidis, A. (1997). Supporting Interface Adaptation: The AVANTI Web-Browser. In C. Stephanidis & N. Carbonell (Eds.), *Proceedings of the 3rd ERCIM Workshop "User Interfaces for All"*, Obernai, France, 3-4 November (14 pages). 40% rate
- [C27] Savidis, A., & Stephanidis, C. (1997). Unified manipulation of interaction objects: integration, augmentation, expansion and abstraction. In C. Stephanidis & N. Carbonell (Eds.), *Proceedings of the 3rd ERCIM Workshop "User Interfaces for All"*, Obernai, France, 3-4 November (16 pages). 40% rate
- [C28] Stephanidis, C., Paramythis, A., Savidis, A., Sfyraakis, M., Stergiou, A., Leventis, A., Maou, N., Paparoulis, G., Karagiannidis, C. (1997). Developing Web Browsers Accessible to All: Supporting User-Adapted Interaction. In G. Anogiannakis, C. Bühler, & M. Soede (Eds.), *Proceedings of the 4th European Conference for the Advancement of Assistive Technology (AAATE '97)*, Porto Carras, Greece, 29 September - 2 October (pp. 233-237). Amsterdam: IOS Press. 40% rate
- [C29] Savidis, A., Paramythis, A., Akoumianakis, D., Stephanidis, C. (1997). Designing user-adapted interfaces: the unified design method for transformable interactions. In *Proceedings of the ACM Conference on Designing Interactive Systems: Processes, Methods and Techniques (DIS '97)*, Amsterdam, The Netherlands, 18-20 August (pp. 323-334). New York: ACM Press. 20% rate, Rank A
- [C30] Savidis, A., Stephanidis, C., Akoumianakis, D. (1997). Unifying Toolkit Programming Layers: a Multi-Purpose Toolkit Integration Module. In M.D. Harrison, & J.C. Torres (Eds.), *Proceedings of the 4th Eurographics Workshop on Design, Specification and Verification of Interactive Systems (DSV-IS '97)*, Granada, Spain, 4-6 June (pp 177-192). Berlin: Springer-Verlag. 25% rate, Rank B
- [C31] Savidis, A., Stergiou, A., Stephanidis, C. (1997). Generic Containers for Metaphor Fusion in Non-Visual Interaction: The HAWK Interface Toolkit. In *Proceedings of the 6th International Conference on Man-Machine Interaction Intelligent Systems in Business (INTERFACES '97)*, Montpellier, France, 28-30 May (pp. 194-196). 35% rate
- [C32] Savidis, A., Vernardos, G., Stephanidis, C. (1997). Augmenting the Windows Object Library with Embedded Scanning Techniques for Motor-Impaired User Access. In *Proceedings of the 6th International Conference on Man-Machine Interaction Intelligent Systems in Business (INTERFACES '97)*, Montpellier, France, 28-30 May (pp. 233-234). 35% rate
- [C33] Akoumianakis, D., Savidis, A., & Stephanidis, C. (1996). Design assistance for user-adapted interaction. In F. Bodart, & J. Vanderdonck (Eds.), *Proceedings of the 3rd Eurographics Workshop on Design, Specification and Verification of Interactive Systems (DSV-IS '96)*, Namur, Belgium, 5-7 June (pp. 248-271). Vienna: Springer-Verlag. 25% rate, Rank B
- [C34] Savidis, A., Stephanidis, C., Korte, A., Krispien, K., Fellbaum, K. (1996). A Generic Direct Manipulation 3d-Auditory Environment for Hierarchical Navigation in Non-Visual Interaction. In *Proceedings of the 2nd ACM-SIGCAPH Conference on Assistive Technologies (ASSETS '96)*, Vancouver, Canada, 11-12 April (pp. 117-123). New York: ACM Press. 30% rate
- [C35] Akoumianakis, D., Savidis, A., & Stephanidis, C. (1996). An Expert User Interface Design Assistant for Deriving Maximally Preferred Lexical Adaptability Rules. In *Proceedings of the 3rd World Congress on Expert Systems*, Seoul, Korea, 5-9 February (pp. 1298-1315). New York: Cognizant Communication Corporation. 25% rate, Rank B
- [C36] Savidis, A., & Stephanidis, C. (1996). Agents Classes for Managing Dialogue Control Specification Complexity. In C. Stephanidis (Ed.), *Proceedings of the 2nd ERCIM Workshop "User Interfaces for All"*, Prague, Czech Republic, 7-8 November (9 pages). 45% rate
- [C37] Savidis, A., & Stephanidis, C. (1996). PIM: A Tool for Building Programming Layers on Top of Toolkits. In C. Stephanidis (Ed.), *Proceedings of the 2nd ERCIM Workshop "User Interfaces for All"*, Prague, Czech Republic, 7-8 November (10 pages). 45% rate

- [C38] Savidis, A., & Stephanidis, C. (1995). Integrating the Visual and Non-visual Worlds: Developing User Interfaces. In *Proceedings of RESNA '95 Annual Conference*, Vancouver, Canada, 9-14 June (pp. 458-460). Washington: RESNA Press. 35% rate
- [C39] Savidis, A., & Stephanidis, C. (1995). Developing Dual User Interfaces for Integrating Blind and Sighted Users: the HOMER UIMS. In *Proceedings of the ACM Conference on Human Factors in Computing Systems (CHI '95)*, Denver, Colorado, 7-11 May (pp. 106-113). New York: ACM Press. 18% rate, Rank A
- [C40] Savidis, A., & Stephanidis, C. (1995). Building non-visual interaction through the development of the Rooms metaphor. In *Companion Proceedings of the ACM Conference on Human Factors in Computing Systems (CHI '95)*, Denver, Colorado, 7-11 May (pp. 244-245). New York: ACM Press. 25% rate, Rank A
- [C41] Stephanidis, C., Savidis, A., & Akoumianakis, D. (1995). Tools for User Interfaces for all. In I. Placencia-Porreiro, & R.P. de la Bellacasa (Eds.), *Proceedings of the 2nd TIDE Congress*, Paris, France, 26-28 April (pp. 167-170). Amsterdam: IOS Press.
- [C42] Stephanidis, C., Akoumianakis, D., & Savidis, A. (1995). Design representations and Development support for User Interface Adaptation. In C. Stephanidis (Ed.), *Proceedings of the 1st ERCIM Workshop on "Towards User Interfaces for All: Current efforts and future trends"*, Heraklion, Crete, Greece, 30-31 October (23 pages). 45% rate
- [C43] Weber, G., Kochanek, D., Stephanidis, C., Homatas, G., Savidis, A., & Gogoulou, R. (1993). Access to Graphics Based and Multimedia Environments by Blind Users. In E. Ballabio, I. Placencia-Porrero, & R.P. de la Bellacasa (Eds.), *Proceedings of the 1st TIDE Congress on Rehabilitation Technology Strategies for the European Union*, Brussels, Belgium, 6-7 April (2 pages). Amsterdam: IOS Press.
- [C44] Stephanidis, C., Savidis, A., Homatas, G., Spyridou, N., Sfyraakis, M., & Weber, G. (1990). Accessibility of WIMPS-based User Interfaces by Visually Impaired People. In *Proceedings of the 1st European Conference on the Advancement of Rehabilitation Technology (ECART-1)*, Maastricht, The Netherlands, 5-8 November (2 pages).

### III. Edited Books (1)

- [B1] Guelfi, N., Savidis, A. (2006). *Rapid Integration of Software Engineering techniques*. Proceedings of the 2<sup>nd</sup> International Workshop RISE2005. Springer LNCS Vol. 3943.

### IV. Invited and reviewed book chapters (27)

- [D1] Savidis, A., Koutsopoulos, N. (2013). *A Programmer-Centric and Task-Optimized Object Graph Visualizer for Debuggers*. In M. Huang and W. Huang (ed.) *Innovative Approaches of Data Visualization and Visual Analytics*, 1<sup>st</sup> Edition, IGI Global. To appear.
- [D2] Stephanidis, C., Antona, M., Savidis, A., Partarakis, N., Doulgeraki, K., Leonidis, A. (2012). *Design for All: Computer Assisted Design of User Interface Adaptation*. In G. Salvendy (ed.) *Handbook of Human Factors and Ergonomics*, 4<sup>th</sup> Edition (Chapter 57), John Wiley and Sons, pp 1484-1508
- [D3] Savidis, A., Stephanidis, C. (2012). *Unified User Interface Development: A Software Refactoring Perspective*. In J. Jacko & A. Sears (Eds.), 3<sup>rd</sup> Edition of *Human-Computer Interaction Handbook*. Taylor and Francis, pp 1155 – 1180.
- [D4] Stephanidis, C., Paramythis, A., & Savidis, A. (2010). *Developing Adaptive Interfaces for the Web*. In R. Proctor & K. Vu (Eds.), 2<sup>nd</sup> Edition of *Handbook of Human Factors in Web Design*. CRC Press, pp 191-208.
- [D5] A. Savidis, C. Stephanidis (2009). *Unified Design for User Interface Adaptation*. In *Universal Access Handbook*, C. Stephanidis (Ed), Taylor & Francis, Chapter 16-1.

- [D6] D. Grammenos, A. Savidis, C. Stephanidis (2009). *Designing Universally Accessible Games*. In *Universal Access Handbook*, C. Stephanidis (Ed), Taylor & Francis, Chapter 17-1.
- [D7] A. Savidis, C. Stephanidis (2009). *Software Requirements for Inclusive User Interfaces*. In *Universal Access Handbook*, C. Stephanidis (Ed), Taylor & Francis, Chapter 18-1.
- [D8] A. Savidis, C. Stephanidis (2009). *A Unified Software Architecture for User Interface Adaptation*. In *Universal Access Handbook*, C. Stephanidis (Ed), Taylor & Francis, Chapter 21-1.
- [D9] A. Savidis, C. Stephanidis (2009). *A Decision-Making Specification Language for User Interface Adaptation*. In *Universal Access Handbook*, C. Stephanidis (Ed), Taylor & Francis, Chapter 22-1.
- [D10] A. Savidis (2009). *Abstract Interaction Objects in User Interface Programming Languages*. In *Universal Access Handbook*, C. Stephanidis (Ed), Taylor & Francis, Chapter 27-1.
- [D11] S. Ntoa, A. Savidis, C. Stephanidis (2009). *Automatic Hierarchical Scanning for Windows Applications*. In *Universal Access Handbook*, C. Stephanidis (Ed), Taylor & Francis, Chapter 35-1.
- [D12] A. Savidis, C. Stephanidis (2009). *Developing Inclusive e-Training*. In *Universal Access Handbook*, C. Stephanidis (Ed), Taylor & Francis, Chapter 44-1.
- [D13] A. Savidis, D. Grammenos, C. Stephanidis (2009). *Training through Entertainment for Learning Difficulties*. In *Universal Access Handbook*, C. Stephanidis (Ed), Taylor & Francis, Chapter 45-1.
- [D14] D. Grammenos, A. Savidis, Y. Geogralis, T. Bourdenas, C. Stephanidis (2009). *Electronic Educational Books for Blind Users*. In *Universal Access Handbook*, C. Stephanidis (Ed), Taylor & Francis, Chapter 50-1.
- [D15] Savidis, A., Stephanidis, C. (2007). *Unified User Interface Development: New Challenges and Opportunities*. In J. Jacko & A. Sears (Eds.), 2<sup>nd</sup> Edition of *The Human-Computer Interaction Handbook – Fundamentals, Evolving Technologies and Emerging Applications*. Mahwah, New Jersey: Lawrence Erlbaum Associates, pp 1083-1106.
- [D16] Lalis, S., Savidis, A. Karypidis, A., Gutknect, J., Stephanidis, C. (2007). Towards Dynamic and Cooperative Multi-device Personal Computing. In *The Disappearing Computer*, N. Streitz, A. Kameas, I. Mavrommati (Eds), Springer LNCS 4500, pp 182-204.
- [D17] Stephanidis, C., Paramythis, C., Savidis, A. (2005). *Developing Adaptive Interfaces for the Web*. In *Handbook of Human Factors in Web Design*, Proctor, R., Vu, Kim-Phuong (Eds), LEA, London – New Jersey, pp 251-266.
- [D18] Stephanidis, C., Antona, M., Savidis, A. (2005). *Design for All: Computer Assisted Design of User Interface Adaptation*. In G. Salvendy (ed.) *Handbook of Human Factors and Ergonomics*, 3<sup>rd</sup> Edition (Chapter 57), John Wiley and Sons, pp 1459 – 1484.
- [D19] Savidis A., Antona, M., Stephanidis, C. (2005). *Applying the Unified User Interface Design Method in Health Telematics*. In C. Stephanidis (Ed.) *Universal Access Code of Practice in Health Telematics*. Springer, Lecture Notes in Computer Science (LNCS) 3041, pp 115-140.
- [D20] Stephanidis, C., Paramythis, A., Zarikas, V., & Savidis, A. (2004). *The PALIO Framework for Adaptive Information Services*. In A. Seffah & H. Javahery (Eds.), *Multiple User Interfaces: Cross-Platform Applications and Context-Aware Interfaces* (pp. 69-92). Chichester, UK: John Wiley & Sons, Ltd.
- [D21] Stephanidis, C., & Savidis, A. (2003). *Unified User Interface Development*. In J. Jacko & A. Sears (Eds.), *The Human-Computer Interaction Handbook – Fundamentals, Evolving Technologies and Emerging Applications* (pp. 1069-1089). Mahwah, New Jersey: Lawrence Erlbaum Associates.
- [D22] Stephanidis, C., Akoumianakis, D., & Savidis, A. (2001). *Universal Design in Human-Computer Interaction*. In W. Karwowski (Ed.), *International Encyclopaedia of Ergonomics and Human Factors*, Vol. 1, pp. 741-745. Philadelphia: Taylor & Francis.

- [D23] Stephanidis, C., Paramythis, A., Sfyarakis, M., & Savidis, A. (2001). *A Case Study in Unified User Interface Development: The AVANTI Web Browser*. In C. Stephanidis (Ed.), *User Interfaces for All - Concepts, Methods, and Tools* (pp. 525-568). Mahwah, NJ: Lawrence Erlbaum Associates (ISBN 0-8058-2967-9, 760 pages).
- [D24] Savidis, A., & Stephanidis, C. (2001). *The I-GET UIMS for Unified User Interface Implementation*. In C. Stephanidis (Ed.), *User Interfaces for All - Concepts, Methods, and Tools* (pp. 489-523). Mahwah, NJ: Lawrence Erlbaum Associates (ISBN 0-8058-2967-9, 760 pages).
- [D25] Savidis, A., & Stephanidis, C. (2001). *Development Requirements for Implementing Unified User Interfaces*. In C. Stephanidis (Ed.), *User Interfaces for All - Concepts, Methods, and Tools* (pp. 441-468). Mahwah, NJ: Lawrence Erlbaum Associates (ISBN 0-8058-2967-9, 760 pages).
- [D26] Savidis, A., Akoumianakis, D., & Stephanidis, C. (2001). *The Unified User Interface Design Method*. In C. Stephanidis (Ed.), *User Interfaces for All - Concepts, Methods, and Tools* (pp. 417-440). Mahwah, NJ: Lawrence Erlbaum Associates (ISBN 0-8058-2967-9, 760 pages).
- [D27] Savidis, A., & Stephanidis, C. (2001). *The Unified User Interface Software Architecture*. In C. Stephanidis (Ed.), *User Interfaces for All - Concepts, Methods, and Tools* (pp. 389-415). Mahwah, NJ: Lawrence Erlbaum Associates (ISBN 0-8058-2967-9, 760 pages).

#### V. Peer reviewed conference tutorials (5)

- [T1] Gramenos, D., Savidis, A. (2005). *Design and Implementation of Universally Accessible Computer Games*. Half-day tutorial. 11th International Conference on Human-Computer Interaction (HCI International 2005), July 22-27, Las Vegas, Nevada, USA. 30% rate.
- [T2] Antona, M., Savidis, A., Styephanidis, C. (2005). *Designing for All: methods, tools and practice*. Half-day tutorial. 11th International Conference on Human-Computer Interaction (HCI International 2005), July 22-27, Las Vegas, Nevada, USA. 30% rate
- [T3] Stephanidis, C., Savidis, A., & Akoumianakis, D. (2001). *Engineering Universal Access: Unified User Interfaces*. Full-day tutorial. 9th International Conference on Human-Computer Interaction (HCI International 2001), 5-10 August, New Orleans, Louisiana, USA. 35% rate
- [T4] Stephanidis, C., Savidis, A., & Akoumianakis, D. (2001). *Universally accessible UIs: The Unified User Interface Development*. Full-day tutorial. *ACM Conference on Human Factors in Computing Systems (CHI 2001)*, 31 March - 5 April, Seattle, Washington, USA. 15% rate
- [T5] Stephanidis, C., Savidis, A., & Akoumianakis, D. (1997). *Unified Interface Development: Tools for Constructing Accessible and Usable User interfaces*. Full-day tutorial. 7th International Conference on Human-Computer Interaction (HCI International '97), 24-29 August, San Francisco, California, USA. 35% rate

#### VIVII. Other reviewed conference publications (25)

- [O1] Karouzaki, E., Savidis, A., Katzourakis, A., Stephanidis, C. (2007). *Tile Dreamer: Game Tiles Made Easy*. In proceedings of the HCI International 2007 Conference, Part I, Springer LNCS Volume 4554, pp 382-391.
- [O2] Grammenos, D., Savidis, A., Stephanidis, C. (2007). *Unified Design of Universally Accessible Games*. In proceedings of the HCI International 2007 Conference, Part I, Springer LNCS Volume 4554, pp 607-616.
- [O3] Savidis, A., Georgalis, Y., Stephanidis, C. (2005). *A pervasive game with a dynamically distributed and configurable User Interface*. 11th International Conference on Human-Computer Interaction (HCI International 2005), July 22-27, Las Vegas, Nevada, USA.

- [O4] Savidis, A., Stephanidis, C. (2005). *Dynamic deployment of remote graphical toolkits over Bluetooth from wearable devices*. 11th International Conference on Human-Computer Interaction (HCI International 2005), July 22-27, Las Vegas, Nevada, USA.
- [O5] Savidis, A., Antona, M., Stephanidis, C. (2005). *A decision-making specification language for automatic interface adaptation*. 11th International Conference on Human-Computer Interaction (HCI International 2005), July 22-27, Las Vegas, Nevada, USA.
- [O6] M. Antona, A. Savidis, C. Stephanidis. (2005). *A support tool for the design of user interface adaptation*. 11th International Conference on Human-Computer Interaction (HCI International 2005), July 22-27, Las Vegas, Nevada, USA.
- [O7] D. Grammenos, A. Savidis, C. Stephanidis. (2005). *UA-Chess: A universally accessible board game*. 11th International Conference on Human-Computer Interaction (HCI International 2005), July 22-27, Las Vegas, Nevada, USA. *LEA, CD-ROM*.
- [O8] D. Grammenos, A. Savidis, C. Stephanidis. (2005). *The development of a sensory system for intelligent game creatures*. 11th International Conference on Human-Computer Interaction (HCI International 2005), July 22-27, Las Vegas, Nevada, USA.
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#### VIII. Reviewed workshop position papers (8)

- [W1] Lalis, S., Savidis, A., Stephanidis, C. (2010). *Supporting Distributed User Interfaces in Mobile and Wearable Device Ensembles: the 2WEAR Experience*. Workshop on "Ensembles of On-Body Devices", organised in the context of the Mobile HCI 2010 Conference, 7-10 September, 2010, Lisbon, Portugal.

- [W2] Savidis, A., & Stephanidis, C. (2001). *Designing with varying design parameters: The Unified Design process*. In *Proceedings of the Workshop No. 14 "Universal design: Towards universal access in the info society"*, organised in the context of the ACM Conference on Human Factors in Computing Systems (CHI 2001), Seattle, Washington, USA, 31 March - 5 April.
- [W3] Antona, M., Savidis, A., Paramythis, A., & Stephanidis, C. (2001). Self-adaptation of educational software. In *Proceedings of the 3rd Workshop "New Information and Tele-communication Technologies to support Distance Learning"*, organised by HERMES - New Technologies for Distance Education, Rhodes, Greece, 16-17 June.
- [W4] Antona, M., Savidis, A., Protogeros, Z., & Stephanidis, C. (2001). Learner-centred adaptation of interactive courseware. In *Proceedings of the 2nd Workshop "Knowledge-based systems for the delivery and adaptation of educational courseware"*, organised by HERMES - New Technologies for Distance Education, University of Patras, Patra, Greece, 15-18 February (pp. B-23 – B-38).
- [W5] Stephanidis, C. & Savidis, A. (1995). Towards Multimedia Interfaces for All: a New Generation of Tools Supporting Integration of Design-time and Run-time Adaptivity Methods. In R. Heller (Eds.), *Proceedings of ACM Multimedia '95, NSF Workshop on Adaptive Multimedia Technologies for People with Disabilities*, San Francisco, USA, 10 November (11 pages). New York: ACM Press.
- [W6] Stephanidis, C., Savidis, A. (1994). HANDYNET, a multimedia tool: the technological trends in the provision of information. In *Helios plenary session on 'The Handynet System Today and in the Future'*, Cologne, Germany, 17-18 May, 16 pages. *Invited talk*.
- [W7] Stephanidis, C., Savidis, A., Homatas, G. (1991). Considerations of an integrated GUI environment accessible by blind people in the context of a UIMS architecture. In conference of the *Concerted Action Programme on Technology and blindness of the COMAC BME*, Stuttgart, Germany, 15-16 December, 9 pages. *Invited talk*.
- [W8] Styephanidis, C., Savidis, A., Weber, G. (1990). Some Issues on the Accessibility of Graphical User Interfaces by Blind People. In conference of the *Concerted Action Programme on Technology and blindness of the COMAC BME*, Florence, Italy, 6-7 December, 5 pages.

#### **IX. Distinguished and important invitations (8)**

- [I1] *Invited member*, ETHZ DOSE initiative, *Software Engineering course with a Globally Distributed Project* (Europe, Asia and South America), led by Bertrand Meyer, June 2012.
- [I2] *Invited expert*, IST (Information Society Technologies) FET (Future and Emerging Technologies) to *identify new research challenges and opportunities for the future of Pervasive Adaptation*, December 2010.
- [I3] *Invited member*, VSTTE initiative for a funded Project on "*Verifying Software – Theory, Tools, and Experiments*", led by Bertrand Meyer, Jim Woodcock and Richard Paige (2007-2008), reflecting Tony Hoare's (also a member of VSSTE) vision of a Verifying Compiler.
- [I4] *Invited talk*, IBM workshop on *Inclusive e-Learning Technologies*, NY (Thomas Watson Research Center), October (7-8), 2005.
- [I5] *Invited talk*, *Framework Programme VII Exploratory Workshop "Knowledge Anywhere, Anytime"*, organized by the Information Society DG of the European Commission (April 28-29 2004, Brussels).
- [I6] *Invited talk*, *Framework Programme VII Exploratory Workshop "Knowledge Management and Ambient Intelligence"*, organized by the Information Society DG of the European Commission (October 14-15 2004, Brussels).
- [I7] *Invited lecture*, Dagstuhl Seminar N° 03481, *Perspectives Workshop: e-Accessibility - new Devices, new Technologies and new Challenges in the Information Society*, (November 23-27, 2003).



- [18] *Invited expert*, Team of Experts Meeting, HELIOS (DGV), HANDYNET Technical Aids Module, plenary session *HANDYNET Today and in the Future*, Cologne, Germany, May 1994.

**IX. Reviewed conference posters (not included in proceedings) (3)**

- [P1] Savidis, A., Antona, M., Kartakis, G., Stephanidis, C. (2005). Digital Libraries of Learner-Adapted Courseware. In *DELOS AVIVDiLib 2005*. Cortona, Italy, May 4-6, 2005.
- [P2] Savidis, A., Stephanidis, C., Faehrich, K. P. (1997). Encapsulating Multi-Layer Interface Tools Architectures within the Component-Based Development Paradigm. Poster in *7th International Conference on Human-Computer Interaction (HCI International '97)*, San Francisco, USA, 24-29 August.
- [P3] Savidis, A., Stergiou, A., Stephanidis, C. (1997). Metaphor Fusion in Non-visual Interaction. Poster in *7th International Conference on Human-Computer Interaction (HCI International '97)*, San Francisco, USA, 24-29 August.

**X. Articles, technical reports and deliverables (37)**

- [N1] Savidis, A., Stephanidis, C. *Developing Inclusive e-Learning and e-Entertainment to Effectively Accommodate Learning Difficulties*. Issue 83 (September 2005), ACM SIGACCESS Newsletter on "Accessibility and Computing".
- [N2] Savidis, A., Stephanidis, C. Automated User Interface Software Engineering with a Pattern Reflecting Programming Language. (2004, July). In *ERCIM News, Special Theme: Automated Software Engineering*, 58, 61-63.
- [N3] Savidis, A., Stephanidis, C. Games with Wireless Dynamically Changing Input / Output Units. (2004, April). In *ERCIM News, Special Theme: Games*, 57, 16-17.
- [N4] Grammenos, D., Savidis, A., Stephanidis, C. An Accessible Two-player Multi-modal Board Game. (2004, April). In *ERCIM News, Special Theme: Games*, 57, 35-36.
- [N5] Savidis, A., Stephanidis, C. Development tools for dynamic environment-adapted mobile interfaces. (2003, July). In *ERCIM News, Special Theme: Mobile Interfaces*, 54, 44-45.
- [N6] Lalis, S., Savidis, A., & Stephanidis, C. Wearable Systems for Everyday Use. (2003, January). In *ERCIM News, Special Theme: Embedded Systems*, 52, 16-17.
- [N7] Stephanidis, C., Savidis, A. Interface development toolkits for non-visual and switch-based interaction. (2001, July). *ERCIM News, Special Theme: Human Computer Interaction*, 46, 14-15.
- [N8] Savidis, A. (2006). *An Informal Proof on the Contradictory Role of Finalizers in a Garbage Collection Context*. FORTH-ICS Technical Report 381 (10 pages), July 2006.
- [N9] Savidis, A. (2005). *The Delta Dynamic Object-Oriented Programming Language*. FORTH-ICS Technical Report 358 (55 pages), June 2005.
- [N10] Anthony Savidis. *Development Recipe for a Heap Manager Embedding Advanced Bug Defence*. FORTH-ICS Technical Report 346 (35 pages), November 2004.
- [N11] Antona, M., Savidis, A., Stephanidis, C. (2004). *MENTOR: An Interactive Design Environment for Automatic User Interface Adaptation*. FORTH-ICS Technical Report 341 (56 pages), August 2004.
- [N12] Savidis, A (2004). *The I-GET User Interface Programming Language: User's Guide*. FORTH-ICS Technical Report 332 (230 pages), January 2004.
- [N13] Savidis, A., Stephanidis, C. (2003). *Interacting with the Disappearing Computer: Evaluation of the Voyager Development Framework*. FORTH-ICS Technical Report 331 (43 pages), December 2003.
- [N14] Savidis, A., Stephanidis, C. (2002). *Interacting with the Disappearing Computer: Interaction Style, Design Method, and Development Toolkit*. FORTH-ICS Technical Report 317 (43 pages), December 2002.

- [N15] Savidis, A. (2002). *An Advanced C++ Defensive Programming Technique for the Implementation of Generic Smart Pointers*. FORTH-ICS Technical Report 313 (12 pages), October 2002.
- [N16] Savidis, A. (1994). *The Concept of Dual Interfaces and the Design of a UIMS-Based Development Framework*. FORTH-ICS Technical Report 118 (154 pages), February 1994.
- [N17] Savidis, A., Stephanidis, C. (2004). Report on Evaluation. Project IST-2000-25286 2WEAR, Deliverable 21 (43 pages).
- [N18] Savidis, A., Stephanidis, C. (2003). Report on User Interaction Framework APIs. Project IST-2000-25286 2WEAR, Deliverable 10 (93 pages).
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- [N20] Stephanidis, C., Paramythis, A. Stergiou, A., Maou, N., Leventis, A. Savidis, A., Sfyraakis, M., Karagiannidis, C., Vernardos, G. & Paparoulis, G. (1998, February). *User Interface Final Development*. ACTS AC042 AVANTI Project, Deliverable DE025 (38 pages).
- [N21] Stephanidis, C. Karagiannidis, C., Paramythis, A., Sfyraakis, M., Stergiou, A. Savidis, A., Schreck, J., & Fink, J. (1997, February). *Report on Rules*. ACTS AC042 AVANTI Project, Deliverable DE012 (82 pages).
- [N22] Stephanidis, C., & Savidis, A. (1997, January). *Final Report on the I-GET tool*. TIDE TP1001 ACCESS Project, Deliverable D.1.4.2 (62 pages).
- [N23] Stephanidis, C., & Savidis, A. (1996, June). *Draft Report on the I-GET tool*. TIDE TP 1001 ACCESS, Project, Deliverable D.1.4.1 (47 pages).
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- [N26] Stephanidis, C., Savidis, A., & Gogoulou, R. (1995, June). *Report on the integration of target platforms*. TIDE TP1001 ACCESS Project, Deliverable D.1.5.1 (68 pages).
- [N27] Stephanidis, C., & Savidis, A. (1995, June). *Draft report on G-DISPEC*. TIDE TP1001 ACCESS, Project, Deliverable D.1.3.1 (45 pages).
- [N28] Stephanidis, C., & Savidis, A. (1995, June). *Final report on the implementation of the PIM tool*. TIDE TP1001 ACCESS Project, Deliverable D.1.1.2 (62 pages).
- [N29] Stephanidis, C., & Savidis, A. (1995, June). *Development of the tools for Workpackage 1*. TIDE TP1001 ACCESS Project, Progress Report No.3 (36 pages).
- [N30] Stephanidis, C., & Savidis, A. (1995, March). *Draft Report on the implementation of the PIM tool*. TIDE TP1001 ACCESS Project, Deliverable D.1.1.1 (37 pages).
- [N31] Stephanidis, C., & Savidis, A. (1995, March). *Development of the tools for Workpackage 1*. TIDE TP1001 ACCESS Project, Progress Report No2 (56 pages).
- [N32] Stephanidis, C., & Savidis, A. (1994, December). *Report on the Experimental prototyping of applications*. TIDE-GUIB II, Deliverable No 13.3, GUIB II Consortium (18 pages).
- [N33] Stephanidis, C., & Savidis, A. (1994, December). *Final Report on the demonstrator in the framework of multimedia UIMS*. TIDE-GUIB II Deliverable No 13.2, GUIB II Consortium (66 pages).
- [N34] Stephanidis, C., Savidis, A., & Akoumianakis, D. (1994, August). *Development of the tools for the Workpackage 1*. TIDE TP1001 ACCESS Project, Progress Report No 1 (41 pages).

- [N35] Stephanidis, C., & Savidis, A. (1994, May). *Draft report on the demonstrator in the framework of multimedia UIMS*. TIDE-GUIB II Deliverable No 13.1, GUIB II Consortium (32 pages).
- [N36] Stephanidis, C., & Savidis, A. (1993, May). *Investigation of multimedia UIMS architectures with respect to blind people*. TIDE-GUIB Deliverable No 6, GUIB Consortium (93 pages).
- [N37] Stephanidis, C., Homatas, G., & Savidis, A. (1991, June). *Contribution to the TIDE Market Survey Report*, EC - DG XIII, TIDE Central Office, Brussels, Belgium (113 pages).