

## CURRICULUM VITAE

**Spyros Vosinakis**  
Lecturer  
Department of Product and Systems Design Engineering  
University of the Aegean

Konstantinoupoleos 2  
Hermoupolis, 84100, Syros  
Tel: 22810 97125, 6944 711279  
E-Mail: [spyrosv@aegean.gr](mailto:spyrosv@aegean.gr)

Home Page:  
<http://www.syros.aegean.gr/users/spyrosv>

<b>DATE OF BIRTH</b>	7 January 1976
<b>NATIONALITY</b>	Greek
<b>SEX</b>	Male
<b>MARITAL STATUS</b>	Single

### STUDIES

---

November 1998 – May 2003  
**UNIVERSITY OF PIRAEUS**  
Department of Informatics  
PhD with subject “Intelligent Agents in Virtual Environments”

September 1999 – September 2000  
**UNIVERSITY OF HULL, UK**  
MSc in “Computer Graphics and Virtual Environments”

September 1993 – March 1998  
**UNIVERSITY OF PIRAEUS**  
Department of Informatics  
BSc in Informatics

### LANGUAGES

---

**Greek:** mother tongue  
**English:** Cambridge Proficiency, MSc in the University of Hull, UK.  
**German:** Mittelstufe, Abitur

### RESEARCH EXPERIENCE

---

S. Vosinakis has worked in two national research projects co-funded by the EU: PENED'99 “Intensional languages and applications in multimedia, hypermedia and virtual reality” (1 year as a junior researcher) and PYTHAGORAS “Spatio-temporal Data and Knowledge Management in Intelligent Virtual Environments” (2.5 years as a post-doctoral researcher).

## RESEARCH INTERESTS

---

Virtual Environment Architectures, Virtual Agents, Intelligent Virtual Environments, Virtual Museums, Personalization in Virtual Environments, Autonomous Agents, Semantic Virtual Environments, Educational Virtual Worlds, Accessibility in Virtual Worlds, Collaborative Virtual Environments, Virtual Worlds for Product and Systems Design, Affective Agents, Crowd Modeling, Presence.

## EDITOR OF CONFERENCE PROCEEDINGS

---

[1] J. Darzentas, G.A. Vouros, S. Vosinakis and A. Arnellos (Editors). "*Artificial Intelligence: Theories, Models and Applications*", Proceedings of the 5<sup>th</sup> Hellenic Conference on Artificial Intelligence, SETN 2008, LNAI 5138, Springer, 2008.

[2] T. Panayiotopoulos, S. Vosinakis (Editors). "*Intelligent Agents and Virtual Reality*", Workshop of Artificial Intelligence Human Networks, Athens University of Business and Economics, July 29, 2001.

## ORGANIZATION OF SCIENTIFIC CONFERENCES

---

Member of the steering committee of the annual conference "*Experiential Learning in Virtual Worlds*".

Member of the organizing and scientific committee of "*SETN 08: 5<sup>th</sup> Hellenic Conference on Artificial Intelligence*", Syros, Greece, October 2-4, 2008.

Member of the organizing and scientific committee of "*IVA 05: 5<sup>th</sup> International Working Conference on Intelligent Virtual Agents*", Kos Island, Greece, September 12-14, 2005.

## REVIEWER

---

Reviewer in the following scientific journals:

1. Computers & Graphics (Elsevier)
2. International Journal of Human-Computer Studies (Elsevier)
3. Journal of Network and Computer Applications (Elsevier)
4. Virtual Reality (Springer)
5. Journal of Media and Communication Studies (Academic Journals)
6. Journal of Zhejiang University SCIENCE
7. 3D Research (Springer)

Reviewer in the following scientific conferences:

1. Experiential Learning in Virtual Worlds 2012
2. IADIS Game and Entertainment Technologies 2011
3. WSCG 2011
4. SETN 2004, 2008, 2010 and 2012
5. Innovations 2008
6. MIC-CCA 2008
7. Applied Computing 2007
8. Intelligent Virtual Agents 2005 and 2006

Member of editorial board:

1. International Journal of Interactive Multimedia (Intech publisher)

## SUBMITTED PAPERS

---

1. S. Vosinakis and E. Vlachogiannis, "*Universal access to cultural heritage through Virtual Museums*", submitted to **Universal Access in the Information Society**.
2. S. Vosinakis and P. Koutsabasis, "*Interaction Design Studio Learning in Virtual Worlds*", submitted to **Virtual Reality**

3. S. Vosinakis, P. Koutsabasis, "Problem-based Learning for Design & Engineering Activities in Virtual Worlds", submitted to **Presence: Teleoperators and Virtual Environments**, major revisions.

## **JOURNAL PUBLICATIONS**

---

- [A11] S. Vosinakis and J. Papadakis, "*Enhancing semantic and social navigation in information-rich virtual worlds*", **International Journal of Interactive Worlds**, in print.
- [A10] P. Koutsabasis and S. Vosinakis, "*Rethinking HCI Education for Design: Problem-Based Learning and Virtual Worlds at an HCI Design Studio*", **International Journal of Human Computer Interaction**, in print.
- [A9] S. Vosinakis, P. Koutsabasis and P. Zaharias, "*Course Lectures as Problem-Based Learning Interventions in Virtual Worlds*", **LNCS Transactions on Edutainment**, in print.
- [A8] P. Koutsabasis, S. Vosinakis, K. Malisova and N. Paparounas, "*On the Value of Virtual Worlds for Collaborative Design*", **Design Studies**, in print.
- [A7] S. Vosinakis, P. Koutsabasis, "*Engaging Students in HCI Design Activities in Virtual Worlds*", **IEEE Learning Technology Newsletter**, special issue on Virtual Worlds for Academic, Organizational and Life-long Learning, October 2011.
- [A6] B. Bonis, J. Stamos, S. Vosinakis, I. Andreou and T. Panayiotopoulos, "*A Platform for Virtual Museums with Personalized Content*", **Multimedia Tools and Applications**, Springer, vol. 42 (2), pp. 139-159, 2009.
- [A5] S. Vosinakis, P. Koutsabasis, M. Stavarakis, N. Viorres, J. Darzentas, "*Virtual Environments for Collaborative Design: Requirements and Guidelines from a Social Action Perspective*", **CoDesign**, International Journal of CoCreation in Design and the Arts, Taylor & Francis, vol 4(3), pp.133-150, 2008.
- [A4] A. Arnellos, S. Vosinakis, T. Spyrou, J. Darzentas, "*The Emergence of Autonomous Representations in Artificial Agents*", **Journal of Computers (JCP)**, ISSN : 1796-203X Vol. 1 Iss. 6, pp. 29-36, 2006.
- [A3] S. Vosinakis, T. Panayiotopoulos. "*A tool for constructing 3D Environments with Virtual Agents*", **Multimedia Tools and Applications**, Kluwer Academic Publishers, Volume 25, Number 2, February 2005, pp. 253-279.
- [A2] N. Avradinis, S. Vosinakis, T. Panayiotopoulos, A. Belesiotis, I. Giannakas, R. Koutsiamanis, K. Tilelis, "*An Unreal Based Platform for Developing Intelligent Virtual Agents*", **WSEAS Transactions on Information Science and Applications**, August 2004, pp. 752-756.
- [A1] S. Vosinakis, T. Panayiotopoulos. "*A Task Definition Language for Virtual Agents*", **Journal of WSCG**, vol.11(3), ISSN 1213-6972, UNION Agency – Science Press, pp. 512-519, 2003.

## **BOOK CHAPTERS**

---

- [B11] S. Vosinakis, P. Koutsabasis, P. Zaharias, M. Belk, "*Problem-based Learning in Virtual Worlds: Two Case Studies in User Interface Design*", **Experiential Learning in Virtual Worlds - Exploring the Complexities**, Interdisciplinary Press, accepted for publication.
- [B10] B. Bonis, S. Vosinakis, I. Andreou, T. Panayiotopoulos, "*Adaptive Virtual Exhibitions*", in C. K. Ramaiah (ed), **Online Exhibitions: a handbook to library, archival & museum professionals**, accepted for publication.

- [B9] A. Zoumpoulaki, N. Avradinis and S. Vosinakis, “*A Multi-Agent Simulation Framework for Emergency Evacuations Incorporating Personality and Emotions*”, Proceedings of SETN 2010, Greece, **Lecture Notes in Artificial Intelligence**, Springer, 2010.
- [B8] A. Arnellos, S. Vosinakis, G. Anastassakis and J. Darzentas, “*Autonomy in Virtual Agents: Integrating Perception and Action on Functionally Grounded Representations*”, SETN’08, Greece, 2008, **Lecture Notes in Artificial Intelligence**, Springer, vol. 5138, 2008.
- [B7] S. Vosinakis, G. Anastassakis and T. Panayiotopoulos, “*Modeling Spatiotemporal Uncertainty in Dynamic Virtual Environments*”, Intelligent Virtual Agents 2007, **Lecture Notes in Computer Science**, vol. 4722, 2007.
- [B6] B. Bonis, J. Stamos, S. Vosinakis, I. Andreou and T. Panayiotopoulos, “*Personalization of Content in Virtual Exhibitions*”, 2nd International Conference on Semantic and Digital Media Technologies, **Lecture Notes in Computer Science**, vol. 4816, 2007.
- [B5] N. Pelekis, Y. Theodoridis, S. Vosinakis, T. Panayiotopoulos, “*Hermes - A Framework for Location-Based Data Management*”, EDBT 2006, **Lecture Notes in Computer Science**, vol. 3896, pp.1130-1134, 2006.
- [B4] A. Arnellos, S. Vosinakis, T. Spyrou, J. Darzentas, “*Towards Representational Autonomy of Agents in Artificial Environments*”, SETN 2006, **Lecture Notes in Artificial Intelligence**, vol. 3955, Springer, pp.474-477, 2006.
- [B3] N. Avradinis, T. Panayiotopoulos, S. Vosinakis. “*Synthetic Characters with Emotional States*”, SETN 2004, George A. Vouros and Themis Panayiotopoulos (Eds.): **Lecture Notes in Computer Science**, vol. 3025, Springer, pp. 505-514, 2004.
- [B2] S. Vosinakis, T. Panayiotopoulos, “*Programmable Agent Perception in Intelligent Virtual Environments*”, IVA 2003, Thomas Rist, Ruth Aylett, Daniel Ballin, Jeff Rickel (Eds.): **Lecture Notes in Computer Science**, vol. 2792, Springer, pp. 202-206, 2003.
- [B1] S. Vosinakis, T. Panayiotopoulos. “*SimHuman: A Platform for real time Virtual Agents with Planning Capabilities*”, IVA 2001, A. de Antonio, R. Aylett, D. Ballin (Eds.), **Lecture Notes in Artificial Intelligence**, vol. 2190, Springer, pp.210-223, 2001.

#### **CONFERENCE PUBLICATIONS WITH REVIEW OF THE FULL PAPER**

---

- [C15] S. Vosinakis, P. Koutsabasis, “*A Framework for Problem-Based Learning Activities in Virtual Worlds*”, 3rd Conference on Informatics in Education (CIE), 2011.
- [C14] S. Vosinakis, P. Koutsabasis and P. Zaharias, “*An Exploratory Study of Problem-Based Learning in Virtual Worlds*”, VS-GAMES 2011: 3rd International Conference in Games and Virtual Worlds for Serious Applications, 2011.
- [C13] S. Vosinakis and I. Papadakis, “*Virtual Worlds as Information Spaces: Supporting Semantic and Social Navigation in a shared 3D Environment*”, Workshop on "Leveraging the Potential of Virtual Worlds", VS-GAMES 2011: 3rd International Conference in Games and Virtual Worlds for Serious Applications, 2011.
- [C12] S. Vosinakis and I. Xenakis, “*A Virtual World Installation in an Art Exhibition: Providing a Shared Interaction Space for Local and Remote Visitors*”, Re-thinking Technology in Museums, 2011.
- [C11] P. Zaharias, I. Andreou and S. Vosinakis, “*Educational Virtual Worlds, Learning Styles and Learning Effectiveness: an empirical investigation*”, Proc. of HCICTE 2010.
- [C10] D. Lekkas, S. Vosinakis, C. Alifieris and J. Darzentas, “*MarineTraffic: Designing a Collaborative Interactive Vessel Traffic Information System*”, The International Workshop on Harbour, Maritime & Multimodal Logistics Modelling and Simulation, 2008.

- [C9] S. Vosinakis, P. Azariadis and N. Sapidis, “*A Virtual Reality Environment Supporting the Design and Evaluation of Interior Spaces*”, 4th INTUITION International Conference on Virtual Reality and Virtual Environments, Athens, 2007.
- [C8] S. Vosinakis, N. Pelekis, Y. Theodoridis and T. Panayiotopoulos, “*Handling Spatial Vagueness in Virtual Agent Control*”, GRAPP 2007, International Conference on Computer Graphics Theory and Applications, Barcelona, Spain, 2007.
- [C7] S. Vosinakis, P. Koutsabasis, M. Stavarakis, N. Viorres, J. Darzentas, “*Supporting Conceptual Design in Collaborative Virtual Environments*”, PCI 2007, Patras, Greece, 2007.
- [C6] N. Pelekis, S. Vosinakis, T. Panayiotopoulos and Y. Theodoridis, “*Towards a Virtual Agent Control Architecture Using a Spatiotemporal Data Management Framework*”, 4th INTUITION International Conference on Virtual Reality and Virtual Environments, Athens, 2007.
- [C5] S. Vosinakis, “*A Fuzzy Model for Agent Control in Virtual Environments*”, CSITeA-04, International Conference on Computer Science, Software Engineering, Information Technology, e-Business, and Applications, December 27-29, Cairo, Egypt, 2004.
- [C4] T. Panayiotopoulos, S. Vosinakis, G. Kalligatsis, K. Kambassi, “*Web-based, Dynamic and Intelligent Simulation Systems*”, Intelligent Systems and Control (ISC), Hawaii, 2000.
- [C3] T. Panayiotopoulos, S. Vosinakis, N. Avradinis. “*Using Virtual Reality Techniques for the Simulation of Physics Experiments*”, 4th World Multiconference on Systemics, Cybernetics and Informatics (SCI), Florida, 2000.
- [C2] T. Panayiotopoulos, S. Vosinakis, S. Kousidou, L. Balafa. “*Visualising Logic Programs in Virtual Worlds*”, ACM Symposium on Virtual Reality Software and Technology (VRST '99), London, 1999, short paper.
- [C1] S. Vosinakis, G. Anastassakis, T. Panayiotopoulos. “*DIVA: Distributed Intelligent Virtual Agents*”, Workshop on Intelligent Virtual Agents (Virtual Agents '99), Salford, 1999.

## **CONFERENCE PUBLICATIONS WITH REVIEW OF THE ABSTRACT**

---

- [D6] S. Vosinakis, P. Koutsabasis, "Using Virtual Worlds to support Interaction Design Studio courses", 2nd Global Conference: Experiential Learning in Virtual Worlds, Prague, 2012.
- [D5] S. Vosinakis, P. Koutsabasis and P. Zaharias, "Problem-based Learning in Virtual Worlds: a Case Study in User Interface Design", 1st Global Conference: Experiential Learning in Virtual Worlds, Prague, 2011.
- [D4] S. Vosinakis, T. Panayiotopoulos. “*Design and Implementation of Synthetic Humans for Virtual Environments and Simulation Systems*”, Advances in Signal Processing and Computer Technologies, G.Antoniou, N.E. Mastorakis, O. Planfilov (Eds.), Electrical and Computer Engineering Series, WSES Press, pp.315-320, 2001.
- [D3] V. S. Belessiotis, S. Vosinakis, N. Alexandris. “*The use of the Virtual Agent SimHuman in the ISM scenario system*”, Advances in Automation, Multimedia and Video Systems, and Modern Computer Science, V.V. Kluev, C.E.D’Attellis, N.E. Mastorakis (Eds.), Electrical and Computer Engineering Series, WSES Press, pp.97-101, 2001.
- [D2] T. Panayiotopoulos, N. Zacharis, S. Vosinakis. “*Intelligent Guidance in a Virtual University*”, SOFTCOM’98, Advances in Intelligent Systems: Concepts, Tools and Applications, (S. Tzafestas ed.), Chapter 10, pp.109-119, Kluwer Academic Publishers, Netherlands, 1999.
- [D1] T. Panayiotopoulos, G. Katsirelos, S. Vosinakis, S. Kousidou. “*An Intelligent Agent Framework in VRML worlds*”, EURISCON’98, Advances in Intelligent Systems: Concepts, Tools and Applications, (S. Tzafestas ed.), Chapter 3, pp.33-43, Kluwer Academic Publishers, Netherlands, 1999.

## CONFERENCE PRESENTATIONS

---

- [E7] Σ. Βοσινάκης, Η. Μυγδάλης, «Πρόσφατες Εξελίξεις στον τομέα της Ιατρικής Εικονικής Πραγματικότητας», 23ο Ιατρικό Συνέδριο Ενόπλων Δυνάμεων, Θεσσαλονίκη, 2010, πόστερ.
- [E6] Σ. Βοσινάκης, Η. Μυγδάλης, «Εικονική Πραγματικότητα για την Αντιμετώπιση Φοβιών», 23ο Ιατρικό Συνέδριο Ενόπλων Δυνάμεων, Θεσσαλονίκη, 2010.
- [E5] A. Arnellos, C. El-Hani, S. Vosinakis, J. Queiroz and J. Darzentas, “*A Biosemiotic Modeling of Signal Transduction in the B-cells Activation: Implications for Simulation Methods*”, 9th International Conference in Biosemiotics, Hermoupolis, Syros, 2008.
- [E4] A. Arnelos, S. Vosinakis, “*Emergence of Representational Structures in Virtual Agents*”, IVA2005: Fifth International Working Conference on Intelligent Virtual Agents, Kos Island, Greece, 2005, poster presentation.
- [E3] T. Panayiotopoulos, S. Vosinakis, N. Avradinis. “*Intelligent Virtual Environments*”, Workshop on Intelligent Agents and Virtual Reality, Artificial Intelligence Human Networks, Athens University of Business and Economics, pp.3-8, June 29, 2001
- [E2] S. Vosinakis, T. Panayiotopoulos. “*SimHuman: Structure, Functionality and Behaviour of a Believable Agent*”, Workshop on Intelligent Agents and Virtual Reality, Artificial Intelligence Human Networks, Athens University of Business and Economics, pp.9-15, June 29, 2001.
- [E1] T. Panayiotopoulos, S. Vosinakis, N. Avradinis, G. Katsirelos. “*Interactive Experimentation in Virtual Laboratories*”, Virtuality in Education, CAL '99, London, 1999.

## **CITATIONS (EXCLUDING SELF) OF THE PUBLISHED WORK**

---

According to google scholar (April 2012) the published work has the following number of citations (excluding self):

[A1]: 14 citations, [A3]: 23 citations, [A4]: 2 citations, [A6]: 7 citations, [B1]: 28 citations, [B2]: 5 citations, [B5]: 31 citations, [B6]: 2 citations, [B9]: 2 citations, [Γ1]: 14 citations, [Γ3]: 12 citations, [Γ4]: 1 citation, [Γ6]: 1 citation, [Γ7]: 2 citations, [Γ9]: 1 citation, [Δ1]: 4 citations, [Δ2]: 17 citations

**Total: 166**