

DR. MARIA VIRVOU
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HEAD OF THE DEPARTMENT OF
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UNIVERSITY OF PIRAEUS

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EDUCATION

- 1993 **D.Phil** in Computer Science and Artificial Intelligence, University of Sussex, U.K.
Supervisors: Professor B. du Boulay,
Dr. M. Millington.
1987 **M.Sc. in Computer Science**, University of London
(University College London), U.K.
1986 **Degree in Mathematics**, University of Athens, Greece.

DISTINCTIONS

- 1988 Awarded the national scholarship from the Greek Foundation of State Scholarships for Ph.D. studies in a foreign country, after having obtained the highest marks of all the candidates in a panhellenic examination for the award.

2003-2004 The first research award from the Research Center of the University of Piraeus as the member of faculty (among 200 colleagues of hers) having the highest number of publications in high quality research journals.

FOREIGN LANGUAGES

ENGLISH

CERTIFICATE OF PROFICIENCY, University of CAMBRIDGE.

FRENCH

DIPLOME D' ETUDES SUPERIEURES, Institut Francais.

PROFESSIONAL APPOINTMENTS

2004: Elected an **Associate Professor** at the Department of Informatics,
University of Piraeus in Software Engineering.

1999 – 2004: Elected an Assistant Professor at the Department of Informatics,
University of Piraeus in Software Engineering.

1994- 1999: Elected a Lecturer at the Department of Informatics,
University of Piraeus in Software Engineering.

TEACHING

A. UNDERGRADUATE COURSES

1995 – 2004

[1] *Software Engineering*

(10 years)

[2] *Object-Oriented Analysis and Design*

[3] *Computers in Education*

[4] *Compilers*

[5] *Human-Computer Interaction*

1995 – 1998 [6] *Assembler Programming*

(4 years)

B. POST-GRADUATE COURSES

1998-2002 In the Master of Science (M.Sc.) in *Medical Informatics*

(4 years) Course: **Methodologies for the development of Information Systems**

Ph.D. SUPERVISION

A. FIRST SUPERVISOR OF COMPLETED Ph.D. DISSERTATIONS

Completed	<u>1. Maria Moundridou:</u>
	Dissertation Title:
25/11/2002	“Web-based Authoring Tools for Intelligent Tutoring Systems with emphasis on instructor modeling”
Completed	<u>2. Victoria Tsiriga:</u>
	Dissertation Title:
29/5/2003	“Individualised Learning in Web-based Intelligent Tutoring Systems”
Completed	<u>3. Katerina Kabassi:</u>
	Dissertation Title:
28/11/2003	“Intelligent Methods for the Individualisation of Help in Object-Oriented Graphical User Interfaces”
Completed	<u>4. George Katsionis:</u>
	Dissertation Title:

“Affective user modelling and adaptive tutoring in Virtual Reality games for education”

Completed	<u>5. Eythymios Alepis:</u> Dissertation Title:
06/04/2009	“Affective computing in object-oriented multimodal user interfaces for mobile learning and e-learning”

B. FIRST SUPERVISOR OF CURRENT Ph.D. STUDENTS:

1. Kalliopi Tourtoglou:

Research Area:

“User modelling and adaptive management of human groups in Computer Assisted Software Engineering”

2. Konstantinos Manos:

Research Area:

“Cognitive modelling of user memory –Application areas: Intelligent Tutoring Systems, Virtual Reality Games and Interactive Software”

3. Leondios Perdikaris:

Research Area:

“Generic architectures for adaptive information systems over the Web”

4. Anastasios Savvopoulos:

Research Area:

“Adaptivity in e-commerce applications”

C. PARTICIPATION IN Ph.D. SUPERVISION COMMITTEES:

Member of 8 Ph.D. Supervision Committees.

SUPERVISION OF UNDERGRADUATE FINAL YEAR DISSERTATIONS

- Supervisor of 62 dissertations that have been completed successfully.
- Currently supervising 8 dissertations.

AUTHOR OF UNIVERSITY LECTURE NOTES

[1] ***“SOFTWARE ENGINEERING”***

[2] ***“HUMAN COMPUTER INTERACTION”***

[3] ***“COMPUTERS IN EDUCATION”***

SOLE AUTHOR OF BOOKS

[1] ***“INTRODUCTON TO COMPILERS”***

Varvarigou Publivcations, 1996

[2] ***“OBJECT-ORIENTED TECHNOLOGY”***

Varvarigou Publications, 1997

[3] ***“OBJECT-ORIENTED SOFTWARE ENGINEERING”***

Varvarigou Publications 2001

J. PUBLICATIONS IN INTERNATIONAL JOURNALS

AFTER FULL REVIEW

2009

J. 38 *"On assisting a visual-facial affect recognition system with keyboard-stroke pattern information"*

I.-O. Stathopoulou , E. Alepis, G.A. Tsihrintzis, **M. Virvou** , 2010
In Knowledge-Based Systems, Elsevier Science.

J. 37 *"Evaluation of mobile authoring and tutoring in medical issues"*

Alepis, E. and **M. Virvou**, 2008

In US-China Education Review, Vol.7, No.7, 2010

J. 36 *"Mobile Education: Towards affective bi-modal interaction for adaptivity"*

*Alepis, E., **Virvou, M.** & Kabassi, K. (2009)*

In INTERNATIONAL JOURNAL OF INTERACTIVE MOBILE

TECHNOLOGIES (iJim), Volume 3(2), pp. 40-45.

2008

J. 35 *"On the usability and likeability of virtual reality games for
education: The case of VR-ENGAGE"*

M. Virvou & G. Katsionis, 2008

In COMPUTERS & EDUCATION, Vol. 50 (1) (Jan. 2008), pp. 154–178,
Elsevier Science.

J. 34 *"Personalised e-learning through an Educational Virtual Reality Game
using Web Services"*

G. Katsionis and **M. Virvou**, 2008

In international journal MULTIMEDIA TOOLS AND APPLICATIONS,
Volume 39, Number 1 / August, 2008, pp. 47-71, Springer.

- J. 33** *“Specifying the personalization reasoning mechanism for an intelligent medical e-learning system on Atheromatosis: An empirical study”*

K. Kabassi, **M. Virvou**, G. A. Tsihrintzis, Y. Vlachos & D. Perrea, 2008

In international journal INTELLIGENT DECISION TECHNOLOGIES,
2(3): 179-190 (2008), IOS press.

2007

- J. 32** *“Development Process of an Affective Bi-Modal Intelligent Tutoring System”*

E. Alepis, **M. Virvou** & K. Kabassi, 2007

In international journal INTELLIGENT DECISION TECHNOLOGIES
1(3), pp. 117-126, IOS press.

- J. 31** *“Web Services User Model Server Performing Decision Making”*

K. Kabassi, **M. Virvou** & G. A. Tsihrintzis , 2007

In INTERNATIONAL JOURNAL OF PATTERN RECOGNITION AND
ARTIFICIAL INTELLIGENCE, Vol. 21, No. 2 (2007) pp. 245-264, World
Scientific.

2006

- J. 30** *“A Knowledge-based Software Life-Cycle Framework for the incorporation of Multi-Criteria Analysis in Intelligent User Interfaces”*

K. Kabassi & **M. Virvou**, 2006

In IEEE TRANSACTIONS ON KNOWLEDGE AND DATA
ENGINEERING, 18 (9): 1265-1277 September 2006 IEEE Publications.

- J. 29** *“On the usability and likeability of virtual reality games for education: The*

case of VR-ENGAGE”

M. Virvou & G. Katsionis, 2006

In COMPUTERS & EDUCATION, Elsevier Science, to appear.

J. 28 *“Web Services User Model Server Performing Decision Making”*

K. Kabassi, M. Virvou & G. A. Tsihrintzis, 2006

Έχει γίνει δεκτό προς δημοσίευση στο INTERNATIONAL JOURNAL OF PATTERN RECOGNITION AND ARTIFICIAL INTELLIGENCE, World Scientific

J. 27 *“Multi-Attribute Utility Theory and Adaptive Techniques for Intelligent Web-Based Educational Software”*

K. Kabassi & M. Virvou, 2006

In INSTRUCTIONAL SCIENCE, Vol. 34, pp. 131-158, Springer Netherlands, 2006.

2005

J. 26 *“Combining software games with education: Evaluation of its educational effectiveness”*

M. Virvou, G. Katsionis & K. Manos, 2005

EDUCATIONAL TECHNOLOGY & SOCIETY, Journal of International Forum of Educational Technology & Society and IEEE Learning Technology Task Force, to appear.

J. 25 *“Adapting the Human Plausible Reasoning Theory to a Graphical*

User Interface”

M. Virvou & K. Kabassi, 2003

Accepted to the journal **IEEE TRANSACTIONS**

ON SYSTEMS MAN AND CYBERNETICS: PART A’, Vol. 34, No. 4, July 2004, pp. 546-563, IEEE Publications.

J. 24 *“Mobile educational features in authoring tools for personalised tutoring”*

M. Virvou & E. Alepis, 2004

Accepted to the journal COMPUTERS & EDUCATION, Elsevier Science.

J. 23 *“Evaluating an Intelligent Graphical User Interface by Comparison with Human Experts”*

M. Virvou & K. Kabassi, 2004

In KNOWLEDGE-BASED SYSTEMS, Vol. 17(1), January 2004, pp. 31-37, Elsevier Science.

J. 22 *“Personalised Adult e-Training on Computer Use based on Multiple Attribute Decision Making”*

K. Kabassi & M. Virvou, 2004

In INTERACTING WITH COMPUTERS, Vol. 16, Issue 1, Feb 2004, pp. 115-132, Elsevier Science.

J. 21 *“A Generic Framework for the Initialization of Student Models in Web-based Intelligent Tutoring Systems»*

V. Tsiriga & M. Virvou, 2004

Accepted to the journal USER MODELING AND USER ADAPTED INTERACTION, Kluwer Academic Publishers.

J. 20 “A Multicriteria Approach to Dynamic Reasoning in an Intelligent User Interface”

K. Kabassi, D. Despotis & M. Virvou, 2004

Έχει γίνει δεκτό προς δημοσίευση στο INTERNATIONAL JOURNAL OF INFORMATION TECHNOLOGY AND DECISION MAKING, Vol.3, Issue 4, December 2004.

J. 19 “*Evaluating the Intelligent Features of a Web-Based Computer Assisted Language Learning System*”

V. Tsiriga & M. Virvou, 2004

In INTERNATIONAL JOURNAL ON ARTIFICIAL INTELLIGENCE TOOLS, IJAIT, Vol.13, No 2, 2004, pp. 411-425, World Scientific.

2003

J. 18 “*Modelling the Knowledge and Reasoning of Users in a Knowledge-Based Authoring Tool*”

M. Virvou, 2003

In INTERNATIONAL JOURNAL OF CONTINUING

ENGINEERING EDUCATION and LIFE-LONG LEARNING, Vol. 13, Nos 3-4, 2003, pp. 399- 412, Inderscience Publishers.

J. 17 “*Experimental Studies within the Software Engineering Process for Intelligent Assisatnce in a GUI*”

M. Virvou & K. Kabassi, 2003

In JOURNAL OF UNIVERSAL COMPUTER SCIENCE,

Vol. 8, No 1, pp. 51-85, Springer Verlag.

- J. 16** *“Memory Features in Simulated Students to Improve the Software Engineering Process and the Performance of Intelligent Tutoring Systems”*

K. Manos & M. Virvou, 2003

Accepted to the journal TECHNOLOGY, INSTRUCTION,
COGNITION AND LEARNING, OCP Science Publishers, Germany.

- J. 15** *“Using Web Services for Personalised Web-based Learning”*

K. Kabassi & M. Virvou, 2003

In EDUCATIONAL TECHNOLOGY & SOCIETY, Journal of International Forum of Educational Technology & Society and IEEE Learning Technology Task Force, Vol. 6, No 3, pp. 61-71,

July Issue 2003.

Also in the Russian version of the journal for Eastern Europe,

April Issue.

- J. 14** *“Analysis and design of a web-based authoring tool generating intelligent tutoring systems”*
M. Moundridou & **M. Virvou**, 2003

In COMPUTERS & EDUCATION, Vol. 40, No 2, Feb 2003,

pp. 157-181, Elsevier Science.

J. 13 *“Modelling the Student to Individualise Tutoring in a
Web-Based ICALL”*

V. Tsiriga & **M. Virvou**, 2003

In INTERNATIONAL JOURNAL OF CONTINUING ENGINEERING
EDUCATION and LIFE-LONG LEARNING, Vol. 13,

Nos.3-4, pp. 350-365, Inderscience Publishers.

2002

J. 12 *“Reasoning About Users’ Actions in a Graphical User Interface”*

M. Virvou & K. Kabassi, 2002

In HUMAN COMPUTER INTERACTION, Vol. 17, No. 4, pp. 369-399,
2002, Lawrence Erlbaum Associates.

J. 11 *“Evaluating the persona effect of an interface agent in an
intelligent tutoring system”*

M. Moundridou & **M. Virvou**, 2002

In JOURNAL OF COMPUTER ASSISTED LEARNING,

Vol. 18, No. 3, σελ. 253-261, September 2002, Blackwell Science.

2001

J. 10 *“Adding an Instructor Modelling Component to the Architecture of
ITS Authoring Tools”*

M. Virvou & M. Moundridou, 2001

In INTERNATIONAL JOURNAL OF ARTIFICIAL INTELLIGENCE
IN EDUCATION, Vol. 12, No 2, pp. 185-211, IOS press.

2000

- J. 9** *“An object-oriented software life cycle of an intelligent tutoring system”*

M. Virvou & V. Tsiriga, 2001

In JOURNAL OF COMPUTER ASSISTED LEARNING , Vol. 17, No 2, pp. 200-206, Blackwell Science.

- J. 8** *“A Web-based authoring tool for Algebra-related ITSs.”*

M. Virvou & M. Moundridou, 2000

In EDUCATIONAL TECHNOLOGY & SOCIETY,

Journal of International Forum of Educational Technology & Society and IEEE Learning Technology Task Force, Volume 3, Issue 2, 2000, pp. 61-70.

http://ifets.gmd.de/periodical/vol_2_2000/virvou.pdf

- J. 7** *“Involving effectively teachers and students in the life cycle of an Intelligent Tutoring System.”*

M. Virvou & V. Tsiriga, 2000

In EDUCATIONAL TECHNOLOGY & SOCIETY,

Journal of International Forum of Educational Technology & Society and IEEE Learning Technology Task Force, Volume 3, Issue 3,

pp. 511-521.

http://ifets.ieee.org/periodical/vol_3_2000/virvou.pdf

J. 6 *“Student Modelling in an Intelligent Tutoring System for the Passive Voice of English Language.”*

M. Virvou, V. Tsiriga & D. Maras 2000

In EDUCATIONAL TECHNOLOGY & SOCIETY, Journal of International Forum of Educational Technology & Society and IEEE Learning Technology Task Force, Volume 3, Issue 4, pp. 139-150.

http://ifets.ieee.org/periodical/vol_4_2000/virvou.html

J. 5 *"Virtues and Problems of an Active Help System for UNIX"*

M. Virvou, J. Jones & M. Millington, 2000

In ARTIFICIAL INTELLIGENCE REVIEW, Vol. 14, No (1/2), pp. 23- 42, April 2000, Kluwer Academic Publishers.
Also in:

«Intelligent help systems for UNIX»

ISBN-07923-6641-7

Boston, USA & Dordrecht, The Netherlands:

Kluwer Academic Publishers, 2000

J. 4 *“An Assumption-Based Truth Maintenance System in active aid for UNIX users”*

J. Jones, M. Millington & **M. Virvou**, 2000

In ARTIFICIAL INTELLIGENCE REVIEW, Vol. 14, No 3, pp. 229-252, Kluwer Academic Publishers.

Also in:

«Intelligent help systems for UNIX»

ISBN-07923-6641-7

Boston, USA & Dordrecht, The Netherlands:

Kluwer Academic Publishers, 2000

1999

- J. 3** *"Automatic reasoning and help about human errors in using
an operating system"*

M. Virvou, 1999

In INTERACTING WITH COMPUTERS, Vol. 11, No 5,

pp. 545 - 573, Elsevier Science.

- J. 2** *"Human Plausible Reasoning for intelligent help"*

M. Virvou & B. du Boulay, 1999

In USER MODELING AND USER ADAPTED INTERACTION, Vol. 9,
pp. 321 - 375, 1999, Kluwer Academic Publishers.

1991

- J. 1** *"User modelling and advice giving in Intelligent Help Systems for
UNIX"*

Jones & M. Virvou, 1991

In INFORMATION AND SOFTWARE TECHNOLOGY, Vol. 33,

pp. 121-133, Elsevier Science.

B. CHAPTERS IN EDITED BOOKS AFTER FULL REVIEW

2004

2009

B. 34 “*Testing the Effectiveness of MBIUI Life-Cycle Framework*

for the Development of Affective Interfaces»

Kabassi, K., **Virvou, M.** & Alepis, E. (2009)

In Communications in Computer and Information Science, Software and Data Technologies, Volume 22, **Best Papers of ICSOFT 2007**, Springer-Verlag Berlin Heidelberg, pp. 159-171.

B. 33 “*Knowledge Engineering Aspects of Affective Bi-Modal*

Educational Applications”

Alepis, E., **Virvou, M.** & Kabassi, K. (2009)

In Communications in Computer and Information Science, E-business and Telecommunications, Volume 23, **Best Papers of ICSOFT 2007**, Springer-Verlag Berlin Heidelberg, pp. 328-339.

B. 32 “*Animated Agents in the User Interface of Recommender Systems”*

Anastasios Savvopoulos, **Maria Virvou**, (2009)

To appear Intelligent Interactive Multimedia Systems and Services, Studies in Computational Intelligence, Springer-Verlag Berlin Heidelberg (2009)

B. 31 “*Emotional Intelligence In Multimodal Object Oriented User Interfaces”*

Alepis, E., **Virvou, M.** (2009)

To appear Intelligent Interactive Multimedia Systems and Services, Studies in Computational Intelligence, Springer-Verlag Berlin Heidelberg (2009)

B. 30 “*Usability Factors for an Intelligent Tutoring System on Computer*

Programming”

Chrysafiadi, K., **Virvou, M.** (2009)

To appear Intelligent Interactive Multimedia Systems and Services, Studies in Computational Intelligence, Springer-Verlag Berlin Heidelberg (2009)

2008

B. 29 “*User Stereotypes for Student Modelling in Collaborative Learning:*

Adaptive Advice to Trainers”

Kalliopi Tourtoglou, **Maria Virvou** (2008)

In Knowledge-Based Software Engineering, JCKBSE 2008, Frontiers in Artificial Intelligence and Applications, Vol. 180, ISBN 978-1-58603-900-4, pp. 505-514

B. 28 “*Personalized Teaching of a Programming language over the web:*

Stereotypes and rule-based mechanisms”

Konstantina Chrysafiadi, **Maria Virvou** (2008)

In Knowledge-Based Software Engineering, JCKBSE 2008, Frontiers in Artificial Intelligence and Applications, Vol. 180, ISBN 978-1-58603-900-4, pp. 484-492

B. 27 “*Designing a multi-modal affective knowledge-based user interface:*

combining empirical studies”

Maria Virvou, George A. Tsihrintzis,

Efthymios Alepis, Ioanna-Ourania Stathopoulou (2008)

In Knowledge-Based Software Engineering, JCKBSE 2008, Frontiers in Artificial Intelligence and Applications, Vol. 180, ISBN 978-1-58603-900-4, pp. 250-259

B. 26 “*Clustering for user modeling in recommender e-commerce application: A RUP-based intelligent software life-cycle*”

Anastasios Savvopoulos, **Maria Virvou**,

Dionisios N. Sotiropoulos, George A. Tsihrintzis (2008)

In Knowledge-Based Software Engineering, JCKBSE 2008, Frontiers in Artificial Intelligence and Applications, Vol. 180, ISBN 978-1-58603-900-4, pp. 295-304

B. 25 “*Knowledge Engineering for Affective Bi-Modal Interaction*

in Mobile Devices”

Efthymios Alepis, **Maria Virvou**, Katerina Kabassi (2008)

In Knowledge-Based Software Engineering, JCKBSE 2008, Frontiers in Artificial Intelligence and Applications, Vol. 180, ISBN 978-1-58603-900-4, pp. 305-314

- B. 24** *“Intelligent interactive systems in knowledge-based environments: An introduction”*

Virvou, M., Jain, L.C., 2008

Intelligent Interactive Systems in Knowledge-Based Environments, Studies in Computational Intelligence 104, pp. 1-8, 2008, Springer-Verlag Berlin Heidelberg

- B. 23** *“Requirements analysis and design of an affective bi-modal intelligent tutoring system: The case of keyboard and microphone”*

Alepis, E., **Virvou, M.**, Kabassi, K., 2008

Intelligent Interactive Systems in Knowledge-Based Environments, Studies in Computational Intelligence, Volume 104/2008, pp. 9-24, Springer-Verlag Berlin Heidelberg

- B. 22** *“Affective reasoning based on bi-modal interaction and user stereotypes”*

Alepis, E., **Virvou, M.**, Kabassi, K., 2008

Intelligent Interactive Multimedia Systems and Services, Studies in Computational Intelligence 142, pp. 523-532, Springer-Verlag Berlin Heidelberg

- B. 21** *“Fuzzy logic decisions and web services for a personalized geographical information system”*

K. Chalvantzis & **M. Virvou**, 2008

Intelligent Interactive Multimedia Systems and Services, Studies in Computational Intelligence 142, pp. 439-450, Springer-Verlag Berlin Heidelberg

- B. 20** *“Dynamically extracting and exploiting information about customers for knowledge-based interactive TV-commerce”*

A.Savvopoulos & **M. Virvou**, 2008

Intelligent Interactive Multimedia Systems and Services, Studies in Computational Intelligence 142, pp. 471-480, Springer-Verlag Berlin Heidelberg

- B. 19** *“User stereotypes concerning cognitive, personality and performance issues in a collaborative learning environment for UML”*

K. Tourtoglou & **M. Virvou**, 2008

Intelligent Interactive Multimedia Systems and Services, Studies in Computational Intelligence 142, pp. 385-394, Springer-Verlag Berlin Heidelberg

- B. 18** *“User Modelling Sharing for Adaptive e-Learning and Intelligent Help”*, Kabassi, K., **Virvou, M.** & Tsihrintzis, G. (2008)

In G. Uchyigit & M.Y. Ma (eds.) Personalisation Techniques and Recommender Systems, pp. 85-108, World Scientific Publishing.

2007

- B. 17** *“Combining Empirical Studies of Audio-Lingual and Visual-Facial Modalities for Emotion Recognition”* M. Virvou, G.A., Tsihrintzis, E. Alepis, I.-O. Stathopoulou, and K. Kabassi, 2007

In [Bruno Apolloni](#), [Robert J. Howlett](#), [Lakhmi C. Jain](#) (Eds.): Knowledge-Based Intelligent Information and Engineering Systems, Lecture Notes in Computer Science 4693, Springer 2007, pp. 1130-1137

- B. 16** *“Constructing Stereotypes for an Adaptive e-Shop Using AIN-Based Clustering”* **M. Virvou**, A. Savvopoulos, G. A. Tsihrintzis and D. N. Sotiropoulos, 2007

In Adaptive and Natural Computing Algorithms, Lecture Notes in Computer Science (LNCS), Vol. 4431/2007, Springer Berlin / Heidelberg, pp. 837-845

2006

- B. 15** *“Intelligent Help for Managing and Training UML Software Engineering Teams”* **M. Virvou** & K. Tourtoglou, 2006

In Frontiers in Artificial Intelligence and Applications, Volume 140, 2006 “Knowledge-Based Software Engineering - Proceedings of the Seventh Joint Conference on Knowledge-Based Software Engineering”, Edited by Enn Tyugu, Takahira Yamaguchi ISBN 1-58603-640-8, pp. 11-20.

B. 14 *“INMA: A knowledge-based authoring tool for music education”*

M. Virvou, A. S. Lampropoulos & G. A. Tsihrintzis, 2006

In Lecture Notes in Computer Science: “Knowledge-based Intelligent Information and Engineering Systems”, Springer-Verlag Berlin Heidelberg 2006 (to appear).

B. 13 *“Virtual Reality edutainment: cost-effective development of personalised applications”*

M. Virvou, K. Manos & G. Katsionis, 2006

In Lecture Notes in Computer Science: Editors: M. Gavrilova, O. Gervasi, V. Kumar, C. J. K. Tan, D. Taniar, A. Lagana, Y. Mun, H. Choo “International Conference on Computational Science and its Applications – ICCSA 2006”, part I, pp. 251-260, Springer-Verlag Berlin Heidelberg 2006.

B. 12 *“Emotional Intelligence: Constructing user stereotypes for affective bi-modal interaction”*

E. Alepis & **M. Virvou**, 2006

In Lecture Notes in Computer Science: “Knowledge-based Intelligent Information and Engineering Systems”, Springer-Verlag Berlin Heidelberg 2006 (to appear).

B. 11 *“Hybrid Intelligent Medical Tutor for Atheromatosis”*

K. Kabassi, **M. Virvou** & G. A. Tsihrintzis, 2006

In Lecture Notes in Computer Science: “Knowledge-based Intelligent Information and Engineering Systems”, Springer-Verlag Berlin Heidelberg 2006 (to appear).

B. 10 *“User modelling: An empirical study for affect perception through keyboard and speech in a bi-modal user interface”*

E. Alepis & **M. Virvou**, 2006

In Lecture Notes in Computer Science: “Adaptive Hypermedia”, Springer-Verlag Berlin Heidelberg 2006 (to appear).

B. 9 *“A comparison of clustering techniques in an e-shop application”*

D. Sotiropoulos, G. Tsihrintzis, A. Savvopoulos & **M. Virvou**, 2006

In Lecture Notes in Computer Science: “Adaptive Hypermedia”, Springer-Verlag Berlin Heidelberg 2006 (to appear).

- B. 8** *“On the motivation and attractiveness scope of the virtual reality
user interface of an educational game”*

M. Virvou, G. Katsionis & K. Manos, 2004

In Lecture Notes in Computer Science, Vol 3038, Editors M. Bubak et al.:

ICCS 2004, pp. 962-969, Springer-Verlag Berlin Heidelberg 2004.

2003

- B. 7** *« Individualising a cognitive model of students’ memory in
Intelligent Tutoring Systems »*

M. Virvou & K. Manos, 2003

In Lecture Notes in Artificial Intelligence, Vol. 2773, Editors V. Palade, R.J. Howlett, L.C. Jain: “Knowledge-based Intelligent Information and Engineering Systems”, 2003, pp. 893-897, Springer, Berlin.

- B. 6** *“Combination of a Cognitive Theory with the Multi-Attribute
Utility Theory »*

K. Kabassi & **M. Virvou**, 2003

In Lecture Notes in Artificial Intelligence, Vol. 2773, Editors V. Palade, R.J. Howlett, L.C. Jain: “Knowledge-based Intelligent Information and Engineering Systems”, 2003, pp. 944-950, Springer, Berlin.

- B. 5** *“Evaluation of a Web-based Intelligent Language Tutor”*

V. Tsiriga & **M. Virvou**, 2003

In Lecture Notes in Artificial Intelligence, Vol. 2774, Editors V. Palade, R.J. Howlett, L.C. Jain: “Knowledge-based Intelligent Information and Engineering Systems”, 2003, pp. 275-281, Springer, Berlin.

2001

- B. 4** *“Student and Instructor Models: Two Kinds of User Model and their Interaction in an ITS Authoring Tool”*

M. Virvou & M. Moundridou, 2001

Lecture Notes in Artificial Intelligence, subseries of Lecture Notes in Computer Science, M. Bauer, P. J. Gmytrasiewicz and J. Vassileva (Eds.)

“User Modelling”, Vol. 2109, Springer-Verlag, Berlin, pp. 158 - 167.

<http://link.springer.de/link/service/series/0558/papers/2109/21090158.pdf>

2000

- B. 3** *“An Intelligent Learning Environment for Novice Users of a GUI.”*

M. Virvou & K. Kabassi, 2000

Lecture Notes in Computer Science, Eds. G. Gauthier, C. Frasson & K. Van Lehn: “Intelligent Tutoring Systems”, Vol. 1839, Springer, Berlin, 2000, pp. 484-493.

- B. 2** *“An Object-Oriented Approach in Knowledge Based Software Engineering of an Intelligent GUI”*

M. Virvou & K. Kabassi, 2000

Frontiers in Artificial Intelligence and Applications,

Eds. T. Hruska & M. Hashimoto:

“Knowledge-Based Software Engineering”, Vol. 62, IOS Press, Amsterdam, 2000, pp. 285-292.

B. 1 *"Modelling the Instructor in a WEB-Based Authoring Tool for Algebra-related ITSs"*

M. Virvou & M. Moundridou, 2000

Lecture Notes in Computer Science, Eds. G. Gauthier, C. Frasson & K. Van Lehn: "Intelligent Tutoring Systems", Vol. 1839, Berlin, 2000, pp. 635-644, Springer.

C. INTERNATIONAL CONFERENCES

2004

2006

C. 86 *«A Web-based Educational Application for Teaching of Programming: Individualization via Stereotypes»*

M. Virvou & K. Chryssafiadi, 2006

IEEE International Conference on Advanced Learning Technologies 2006, Netherlands.

C. 85 *"An Adaptive Training Environment for UML"*

M. Virvou & K. Tourtoglou, 2006

IEEE International Conference on Advanced Learning Technologies 2006, Netherlands.

C. 84 *"Affective student modeling based on microphone and keyboard user actions"*

E. Alepis, M. Virvou & K. Kabassi, 2006

IEEE International Conference on Advanced Learning Technologies 2006,

Netherlands.

- C. 83** “*Completeness, Security and Privacy in User Modelling for Web-based Learning*”

M. Virvou, N. Polemi, K. Kabassi 2006

Proceedings of WEBIST 2006, 2nd International Conference on Web Information Systems and Technologies, 11-13 April 2006, Setubal,

Portugal.

- C. 82** “*Personalised Geographical Information System: An Empirical Study*”

K. Kabassi & M. Virvou, P. G Kazantzis & C. D. Desiniotis 2006

Proceedings of the 30th Annual Conference of the German Classification Society (GfKI): Advances in Data Analysis, March 8-10 2006, Berlin, Germany.

2005

- C. 81** “*Software engineering aspects of an Intelligent User Interface based On Multi Criteria Decision Making*”

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G. 4 *“User Modelling”*

M. Virvou, 2001

Είναι δημοσιευμένο στα πρακτικά της 2^{ης} Ημερίδας με θέμα
«Βασισμένα στη γνώση συστήματα για τη διάθεση και την
προσαρμογή εκπαιδευτικού λογισμικού» που διοργανώθηκε στο
πλαίσιο του ανθρώπινου δικτύου ΕΡΜΗΣ: «Νέες τεχνολογίες στην
από απόσταση εκπαίδευση».

G. 3 *«Τεχνολογία Λογισμικού για Περιβαλλοντική Εκπαίδευση»*

M. Βίρβου, 2001

Είναι δημοσιευμένο στα πρακτικά του 4^{ου} Πανελληνίου
Συνεδρίου Περιβάλλοντος που διοργανώθηκε από την Ένωση
Ελλήνων Φυσικών (26 – 28 Ιανουαρίου 2001).

1997

G. 2 *“Εξυπνα Διδακτικά Συστήματα”*

M.Βίρβου, 1997

Είναι δημοσιευμένο στο περιοδικό “ΑΣΤΡΟΛΑΒΟΣ” της
Ελληνικής Μαθηματικής Εταιρείας, Τεύχος 3, στις σελίδες 52-62,
Μάρτιος 1997

1996

G. 1 *“Models and Techniques of Intelligent Tutoring and Help”*

M. Virvou, 1996

Είναι δημοσιευμένο στα Proceedings of National Symposium of Artificial Intelligence organized by HAIS (Hellenic Society of Artificial Intelligence), 1996

PROJECTS

- ***Principal investigator from the University of Piraeus:***

Project “Seirines” (EPEAEK 1997, Activity 1.1.â): “Study And Development Of Educational Multimedia Software For Secondary Schools ”

- ***Principal investigator from the University of Piraeus:***

Project “Reform Of Syllabus In The Domain Of Mathematics Accompanied By The Production Of New Teaching Material” (EPEAEK/ Activity 1.1.á): “Development Of Educational Multimedia Software For Geometry”

- ***Co-investigator:***

Program EPEAEK “Development of the Library of the University of Piraeus”

- ***Member of the “Working Group for Education”***

Project “Horizontal Action For Libraries”.

- ***Co-investigator:***

Project «Apollodoros»: Development Of Information Centre and Modernisation Of The Library Of The Pedagogic Institute”.

- ***Co-investigator:***

Project “MITOS: System For Retrieval And Data Mining – Application In Financial News” (EPET II - Subprogram 1 – EKBAN).

RESEARCH INTERESTS

- *Software engineering.*
- *Adaptive software*
- *Educational software*
- *Authoring tools*
- *E-learning/ m-learning*
- *Interactive user environments*
- *User modeling*
- *User interface development*
- *Intelligent Help Systems/ Intelligent User Interfaces*
- *Object-Oriented software/ UML*
- *Intelligent Tutoring Systems*
- *Mobile software applications*
- *Web-based software applications*
- *E-service software applications*

"The research group of M.Virvou as it appears in the IEEE SMC Society Newsletter"

http://ins.cn.nctu.edu.tw/Sep2004/0308_news.htm