# Conference Programme

# Saturday 23 June

19.00 **Get Together Party** 

Hotel Victoria

Address: Itsenäisyydenkatu 1

### Sunday 24 June

Registration: open every day, starting at 08.00

Tampere Hall

Address: Yliopistonkatu 55

08.45 - 09.00 Opening

09.00 - 09.45 Keynote

# **Adaptive Educational Hypermedia**

Peter Brusilovsky, University of Pittsburgh, USA

09.45 - 10.00 Refreshment Break

#### **Tools and Supports for Learning**

10.00 - 10.30

1. Informational Support for Learners and Teachers in Web-Based Education Lora Aroyo, University of Twente, The Netherlands & Darina Dicheva, Winston-Salem State University, USA

10.30 - 11.00

SESSIONS

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2. IT-Supported Knowledge Creation: The Right Tools for Right Use

Tommi Tikka, Fortum Service, Finland, Sami Hautakangas & Pekka Ranta, Tampere University of Technology, Finland

11.00 - 11.30

3. Scaffolds for Web Discussion: Do They Help? Pentti Hietala, University of Tampere, Finland

11.30 - 12.30 Lunch Break

#### **Intelligent Tutoring Systems**

12.30 - 13.00

4. VITA: Software for Web-Based Tutorials Tatiana A. Gavrilova, Saint-Petersburg State Technical University, Russia, Rodolphe Texier, E.N.S.A.E, France & Natalie V. Stash, Saint-Petersburg Electrotechnical University, Russia

13.00 - 13.30

5. Is the Domain Expert Module for Expression Manipulation Exercises Ready?
Rein Prank & Eno Tönisson, Tartu University, Estonia

13.30 - 14.00

6. Client-Server Architecture Based Integrated System for Education at a Distance

Kinshuk, Hong Hong, Neena Albi, Massey University, New Zealand, Ashok Patel, De Montfort University, UK & Chris Jesshope, Massey University, New Zealand

14.00 - 14.30 Refreshment Break

#### **Experiences of Using Web in Education**

14.30 - 15.00

7. Experiences on Virtual Problem-Based Learning

Tuija Helokunnas & Juha Herrala, Tampere University of Technology, Finland

15.00 - 15.30

8. Individual, Society and Technology: Multidisciplinary Computer Supported Collaborative Learning

Kirsti Ala-Mutka, Tampere University of Technology, Finland & Kari Peltola, University of Tampere, Finland

15.30 - 16.00

9. Creating a Web Based Multimedia Environment to Enhance the Learning Experience Robert S. Doiel, Apryl Lundsten, Eileen Flick, Karen Howell & Dan Heller, University of Southern California, USA

16.00 - 16.15 Refreshment Break

#### **Future Trends in Educational IT**

16.15 - 16.45

10. Keying into Flexible Design: Opening the Door to Learning in Online Communities Roxanne Toto, Pennsylvania State University, USA, Friedrich Scheuermann, University of Innsbruck, Austria, & Ken Larsson, Stockholm University/Royal Institute of Technology, Sweden

16.45 - 17.15

11. Various Facets of Constructivism in Education for New Information Society Vladimir A. Fomichov, Moscow State Institute of Electronics and Mathematics — Technical University, Russia & Olga S. Fomichova, Moscow Children and Teenagers Palace of Creative Work, Russia

# Monday 25 June

Registration: open every day, starting at 08.00

Tampere Hall

Address: Yliopistonkatu 55

09.00 - 09.45 Keynote

# **Machine Learning in Data Mining**

Erkki Oja, Helsinki University of Technology, Finland

09.45 - 10.00 Refreshment Break

#### **Information Tools for Education**

10.00 - 10.30

12. Bayesian Modeling in an Adaptive On-Line Questionnaire for Education and Educational Research

Jaakko Kurhila, Miikka Miettinen, Markku Niemivirta, Petri Nokelainen, Tomi Şilander & Henry Tirri, University of Helsinki, Finland

10.30 - 11.00

SESSION

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13. Modeling Students' Views on the Advantages of Web-Based Learning with Bayesian Networks Petri Nokelainen, Tomi Silander, Henry Tirri, Anne Nevgi & Kirsi Tirri, University of Helsinki, Finland

11.00 - 11.30

14. Understanding Communication in Learning — Selecting Tools for On-Line Communities Raila Ollikainen & Chris Fowler, Helsinki University of Technology, Finland

11.30 - 12.30 Lunch Break

#### **Real-World Cases and Experiments**

12.30 - 13.00

15. A Learning Experiment in Mathematics Using A&O Learning Environment

Seppo Pohjolainen, Sami Hautakangas, Pekka Ranta, Jarkko Levasma & Katja Pesonen, Tampere University of Technology, Finland

13.00 - 13.30

16. Simulation-Based Learning Environment and Adaptive Support System for Designing Neural Networks

Safia Belkada & Toshio Okamoto, University of Electro-Communications, Information Systems and Science, Japan

13.30 - 14.00

17. Supporting Innovation in the Water Industry via ICT Based Learning Systems

Paola Forcheri, Maria Teresa Molfino & Alfonso Quarati, Istituto per la Matematica Applicata — Consiglio Nazionale delle Ricerche, Italy

14.00 — 14.30 Refreshment Break

14.30 - 15.00

18. Web-Based Learning Environment Applied to the Instruction of Electric Power Engineering Pekka Saari, Heli Hytönen, Johanna Koivisto, Anna Seppänen, Sami Silvennoinen, Sanna Mäenpää & Leena Korpinen, Tampere University of Technology, Finland

15.00 - 15.30

19. Organization of Learning by Computer Science Projects

Sarah Pollack & Zahava Scherz, The Weizmann Institute of Science, Israel

15.30 - 16.00

20. Multimedia-Based Teaching in Signal and Image Processing

Reiner Creutzburg, University of Applied Sciences, Germany & Artur Lugmayr, Tampere University of Technology, Finland

16.00 - 16.15 Refreshment Break

#### **Information Technology in Learning**

16.15 - 16.45

21. Digital, Interactive TV as Future Platform for Distance Learning

Artur Lugmayr & Reiner Creutzburg, Tampere University of Technology, Finland

16.45 - 17.15

22. Videolecturing for International Students Pekka Nieminen, Lappeenranta University of Technology, Finland

20.00 **Conference Dinner** 

Restaurant Alexanderin Palatsi Address: Kuninkaankatu 1

# PEG 2001 is sponsored by:







ESSIONS

# Tuesday 26 June

Registration: open every day, starting at 08.00

Tampere Hall

Address: Yliopistonkatu 55

09.00 - 09.45 Keynote

# Instructional Technology and the Quality of Learning

Erno Lehtinen, University of Turku, Finland

09.45 - 10.00 Refreshment Break

#### **Learning Communities and Cognition**

10.00 - 10.30

23. Studying Changes in Learning Environments Brought About by ICT-Based Systems

Rosa Maria Bottino & Giampaolo Chiappini, Istituto per la Matematica Applicata — Consiglio Nazionale delle Ricerche, Italy

10.30 - 11.00

24. Learning in Virtual Communities — The Paderborn Approach to Cooperative Learning Thorsten Hampel & Reinhard Keil-Slawik, University of Paderborn, Germany

11.00 - 11.30

25. Building Simulations to Develop Complex Skills

Rob Wright & Barry Harper, University of Wollongong, Australia

11.30 - 12.30 Lunch Break

#### **Computer Supported Collaborative Learning**

12.30 - 13.00

26. The Solver Learning Environment for Solving Mathematical Word-Problems — How to Support Reflectivity?

Heli Ruokamo, University of Lapland, Finland

13.00 - 13.30

27. Design for Collaboration: Enabling Cooperative Work among Children

M. Cecília C. Baranauskas & Gianfrancesca C. Barcellos, State University of Campinas UNICAMP, Brazil

13.00 - 14.00 Refreshment Break

Address for Correspondence Conference Secretary Kirsti Tikka PEG2001 Conference Secretariat Edutech, Tampere University of Technology New Pedagogical Models for Learning Environments

14.00 - 14.30

28. Supporting Mrs Jones, the Concept Mapper Tom Conlon, University of Edinburgh, Scotland

14.30 - 15.00

29. The Virtual Shopping Mall: Recasting Computer Game Protocols as Supports for Learning Annamarie Jagose, Somaiya Naidu & Lee Wallace, University of Melbourne, Australia

15.00 - 15.30

30. The Virtual Print Exhibition: A Case of Learning by Designing

Som Naidu, Jaynie Anderson & Mathew Riddle, The University of Melbourne, Australia

15.30 - 16.00 Refreshment Break

# Examples of Using Information and Communication Technology in Education

16.00 - 16.30

31. Supporting Students and Tutors in Web-Based Virtual Seminars. Suggestions to Improve Small-Group Teaching

Anne Jelfs & Chris Colbourn, University College Northampton, UK

16.30 - 17.00

32. Knowledge Transformation through ICT in Science Education

Linda Baggott la Velle, Angela McFarlane & Richard Brawn, University of Bristol, UK

17.00 - 17.30

33. Hyperlink: A Generic Tool for Exploratory and Expressive Teaching and Learning Jon Nichol, Kate Watson, University of Exeter, UK, Kevin O'Connell, Derek Brough, Imperial College, UK & Linda Baggott la Velle, University of Bristol, UK

17.30 - 17.45 Closing

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# Intelligent Computer and Communications Technology – Learning in On-Line Communities

THE TENTH INTERNATIONAL PEG CONFERENCE

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# Organised by:



Digital Media Institute (DMI)
Hypermedia Laboratory
http://matriisi.ee.tut.fi/hypermedia



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