

## Schedule

### Notes for paper presenters:

1. Each full paper presentation is of 30 minutes duration, including questions and answers.
2. Each short paper presentation is of 20 minutes duration, including questions and answers.
3. Please bring your presentation on a disk, CD, or USB drive. We encourage you to bring it on more than one media.
4. Presenters may also plug-in their own laptops.
5. Japan runs 110 Volts electricity. The plugs are Japan/US type. Please do not forget to bring power converters and adapters as needed for your laptops and other electrical equipments.
6. Each presentation room will be equipped with a computer for presentation, with Windows XP, Internet Explorer7.0, and Office2007 (Word2007, Power Point2007). This computer will also have Internet access.
7. For email checking, there will be separate room with wireless access. Participants will be able to use their own wireless-enabled laptops in this room (no wired connection will be available for this purpose). For people to fully enjoy the conference presentations, wireless access will not be available in presentation rooms.

### Notes for poster presenters:

1. Poster display board size: 2m40cm vertical, 1m20cm horizontal
2. Posters can be put using pins. Although pins will be provided, please bring your own pins as backup.
3. Electricity and Internet connection will **NOT** be provided for poster displays.

## Wednesday 18 July 2007

<b>Time</b>	<b>Room B</b>	<b>Room C</b>	<b>Room D</b>	<b>Room E</b>	<b>Room F</b>	<b>Room G</b>
8:30 – 9:30	Registration [Hall]					
9:30 – 10:00	Opening ceremony [Room A]					
10:00 – 10:45	Keynote 1 [Room A]					
10:45 – 11:00	Coffee break					
11:00 – 12:30 (90 min)	Session 1: Content authoring technologies	Session 2: Organizational Management of e-Learning in Universities	Session 3: New Generations of educational technologies	Session 4: Educational technologies for new generations	Session 5: Technologies for real-time assessment of learning and performance	Session 6: Panel 1
12:30 – 14:00	Lunch [Hotel Nikko]					
14:00 – 16:00 (120 min)	Session 7: CSCL technologies	Session 8: e-Pedagogy and Instructional Design	Session 9: Personalized systems	Session 10: New Generations of educational technologies	Session 11: Technologies for real-time assessment of learning and performance	Session 12: Workshop IWOM3C
16:00 – 16:15	Coffee break					
16:15 – 17:45 (90 min)	Session 13: Knowledge Management Technologies in Education	Session 14: CSCL technologies	Session 15: New Generations of educational technologies	Session 16: Personalized systems	Session 17: Educational technologies for new generations	Session 18: Panel 2
17:45 – 18:45 (60 min)	Session 19: CSCL technologies	Session 20: Technologies for real-time assessment of learning and performance	Session 21: Personalized mobile computing for learning and instruction	Session 22: New Generations of educational technologies	Session 23: Personalized systems	Session 24: Content authoring technologies

## Thursday 19 July 2007

<b>Time</b>	<b>Room B</b>	<b>Room C</b>	<b>Room D</b>	<b>Room E</b>	<b>Room F</b>	<b>Room G</b>
8:30 – 9:30	Registration [Hall]					
9:30 – 10:15	Keynote 2 [Room A]					
10:15 – 10:30	Coffee break					
10:30 – 12:30 (120 min)	Session 25: Social computing	Session 26: e- testing and new test theories	Session 27: Knowledge Management Technologies in Education	Session 28: Personalized mobile computing for learning and instruction	Session 29: New Generations of educational technologies	Session 30: Workshop WALTD
12:30 – 14:00	Lunch [Hotel Nikko]					
14:00 – 15:00	Session 31: Posters 1 [The fourth floor]					
15:00 – 16:00 (60 min)	Session 32: Data mining, text mining, and web mining in education	Session 33: CSCL technologies	Session 34: Educational technologies for new generations	Session 35: Technologies for real-time assessment of learning and performance	Session 36: New Generations of educational technologies	Session 37: Personalized systems
16:00 – 17:00 (60 min)	Session 38: Personalized mobile computing for learning and instruction	Session 39: CSCL technologies	Session 40: Educational technologies for new generations	Session 41: New Generations of educational technologies	Session 42: Personalized systems	Session 43: New Generations of educational technologies
17:00 – 19:00 (120 minutes)	Session 44: Content authoring technologies	Session 45: Knowledge Management Technologies in Education	Session 46: Personalized mobile computing for learning and instruction	Session 47: New Generations of educational technologies	Session 48: Personalized systems	Session 49: Workshop EDM
19:00	Move to Hotel Nikko					
19:30 – 21:30	Conference dinner at Hotel Nikko					
21:30	[Please check what should be here]					

## Friday 20 July 2007

<b>Time</b>	<b>Room B</b>	<b>Room C</b>	<b>Room D</b>	<b>Room E</b>	<b>Room F</b>	<b>Room G</b>
8:30 – 9:30	Registration [Hall]					
9:30 – 10:15	Keynote 3 [Room A]					
10:15 – 10:30	Coffee break					
10:30 – 11:30 (60 min)	Session 50: Personalized systems	Session 51: e-Pedagogy and Instructional Design	Session 52: New Generations of educational technologies	Session 53: Content authoring technologies	Session 54: New Generations of educational technologies	Session 55: Data mining, text mining, and web mining in education
11:30 – 12:30 (60 min)	Session 56: Technologies for real-time assessment of learning and performance	Session 57: e-Pedagogy and Instructional Design	Session 58: New Generations of educational technologies	Session 59: Personalized systems	Session 60: Data mining, text mining, and web mining in education	Session 61: New Generations of educational technologies
12:30 – 14:00	Lunch [Hotel Nikko]					
14:00 – 15:00	Session 62: Posters 2 [The fourth floor]					
15:00 – 16:00 (60 min)	Session 63: New Generations of educational technologies	Session 64: Personalized systems	Session 65: New Generations of educational technologies	Session 66: e-Pedagogy and Instructional Design	Session 67: Educational technologies for new generations	Session 68: Organizational Management of e- Learning in Universities
16:00 – 16:15	Coffee break					
16:15 – 16:30	Closing session [Room A]					
16:45 – 19:45	Tutorial 1	Tutorial 2	Tutorial 3			

Keynote - Wednesday 18 July 2007 [10:00 – 10:45]

Keynote1 New educational technology models for social and personal computing *Eileen Scanlon and Tim O'Shea*

Session 1: Content authoring technologies

Session Chair: *Jon A. Elorriaga*

26	Towards Collaborative Domain Module Authoring	<i>Mikel Larrañaga, Ianire Niebla, Urko Rueda, Ana Arruarte and Jon A. Elorriaga</i>	Full
51	A Computer-Assisted Collaborative Approach for E-Training Course Design	<i>Hui-Chun Chu, Gwo-Jen Hwang, Po-Han Wu and Jun-Ming Chen</i>	Full
71	An Ontology-Based Framework for Authoring Assisted by Recommendation	<i>Saša Nešić, Dragan Gašević and Mehdi Jazayeri</i>	Full

Session 2: Organizational Management of e-Learning in Universities

Session Chair: *E. Marcia Johnson*

13	Designing a Dynamic E-learning Project Performance Evaluation Framework	<i>Hsiao-Ya Chiu, Chieh-Chung Sheng and An-Pin Chen</i>	Full
129	A Petri Net-based Approach to Trust Development and Activity Understanding in Virtual University	<i>Chun-Chia Wang, Lawrence Y. Deng and Yung-Hui Chen</i>	Full
139	The Promise and Practice of E-Learning within Complex Tertiary Environments	<i>E. Marcia Johnson and Ruth Walker</i>	Full

### Session 3: New Generations of educational technologies

Session Chair: *Yasuhiko Morimoto*

61	An Experimental CALL System Enhanced with Wiki	<i>Masahiro Mochizuki</i>	Full
63	Delivering Context-aware Learning Guidance in the Mobile Learning Environment based on Information Theory	<i>Rita Kuo, Min-Chang Wu, Alex Chang, Maiga Chang and Jia-Sheng Heh</i>	Full
72	Not Afraid to Ask	<i>Ko-Kang Chu, Ming-Chaun Li and Yen-Teh Hsia</i>	Full

### Session 4: Educational technologies for new generations

Session Chair: *Chin-Hwa Kuo*

80	The Designing of a Web Page Recommendation System for ESL	<i>Chen-Chung Chi, Chin-Hwa Kuo and Chia-Chun Peng</i>	Full
93	Is Less Actually More? The Usefulness of Educational Mini-games	<i>Alex Frazer, David Argles and Gary Wills</i>	Full
104	Interactive Educational Technologies for New Generations in China	<i>Xuemei Li</i>	Full

### Session 5: Technologies for real-time assessment of learning and performance

Session Chair: *Nian-Shing Chen*

25	Mining Key Formative Assessment Rules based on Learner Profiles for Web-based Learning Systems	<i>Chih-Ming Chen, Ming-Chuan Chen and Yi-Lun Li</i>	Full
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123	Classroom Climate and Learning Effectiveness Comparison for Physical and Cyber F2F Interaction in Holistic-Blended Learning Environment	<i>Nian-Shing Chen, Kinshuk, Chun-Wang Wei, Yi-Ru Chen and Yu-Chun Wang</i>	Full
183	Towards Advanced Learner Modeling: Discussions on Quasi Real-time Adaptation with Physiological Data	<i>Emmanuel Blanchard, Pierre Chalfoun and Claude Frasson</i>	Full

Session 6: Panel 1 - Wednesday 18 July 2007 [11:00 – 12:30]

P_hartley	Preparing Coming Generations of Educational Technologists: Technology, Pedagogy and Curricula—Changes and Challenges	<i>Roger Hartley, Kinshuk and Rob Koper</i>	
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Session 7: CSCL technologies

Session Chair: *Roger Nkambou*

65	Constructing an MCSCL Groupware to Improve the Problem-solving Experience of Mathematics for Hearing-impaired Students	<i>Chen-Chung Liu, Shu-Yuan Tao, Kuang-Wen Ho, Baw-Jhiune Liu and Ching-Chi Hsu</i>	Short
171	Motivating Online Expertise-Sharing for Informal Learning: The Influence of Age and Tenure in Knowledge Organizations	<i>David Huffaker and Jennifer Lai</i>	Full

194	Development of an intellectual e-NOTEBOOK system for group learning support	<i>Xin Wan, Toshie Ninomiya and Toshio Okamoto</i>	Short
241	A SCORM-compliant Learning Management System that Enhances Learning By Managing the Learning Itself	<i>Yasuhiko Morimoto, Maomi Ueno, Setsuo Yokoyama and Youzou Miyadera</i>	Full
364	Towards Semantic Group Formation	<i>Asma Ounnas, Hugh C Davis and David E Millard</i>	Short

## Session 8: e-Pedagogy and Instructional Design

Session Chair: *Toshio Okamoto*

179	The Views of Educational Practitioners in Ghana on ICT Use and Instructional Design Practice for Promoting Quality Education	<i>Frederick Kwaku Sarfo</i>	Full
195	Different Evaluations of e-Learning for Japanese Academic Reading between Foreign Students and Japanese language Teachers	<i>Yukari Kato and Toshio Okamoto</i>	Full
346	Which are the best e-learning tools for an Engineering Degree in the European Higher Education Area?	<i>Lluís Vicent, Guillem Bou, Xavier Àvila, Jordi Riera, José A. Montero and Jaume Anguera</i>	Full
384	Finding a Fitting Learning Path in E-learning for Juvenile	<i>Jin-Cherng Lin and Kuo-Chiang Wu</i>	Full

## Session 9: Personalized systems

Session Chair: *Kinshuk*

216	VCSR: Video Content Summarization for Recommendation	<i>Chi-Cheng Tsai, Ching-I Chung, Yi-Ting Huang, Chia-Hsing Shen, Yu-Chieh Wu and Jie-Chi Yang</i>	Short
311	A Multiagent Extension for Virtual Reality Based Intelligent Tutoring Systems	<i>Ricardo Imbert, Leticia Sánchez, Angélica de Antonio, Gonzalo Méndez and Jaime Ramírez</i>	Short
315	Activity Plan Structure and Processing in Virtual Environments for Training Supported by Intelligent Tutoring Systems	<i>Leticia Sánchez, Ricardo Imbert and Jaime Ramírez</i>	Short
321	Semantic Relation Analysis and Its Application in Cognitive Profiling	<i>Taiyu Lin, Kinshuk and Sabine Graf</i>	Short
400	Predicting the Learner's Emotional Reaction towards the Tutor's Intervention	<i>Soumaya Chaffar, Gerardo Cepeda and Claude Frasson</i>	Short
347	An Animated Pedagogical Agent as a Learning Management System manipulating Intelligent Learning Objects	<i>Beatriz Wilges, Gustavo Pereira Mateus, Ricardo Azambuja Silveira and Silvia Modesto Nassar</i>	Short

## Session 10: New Generations of educational technologies

Session Chair: *Jean-Marc Labat*

70	The emergence of pragmatic community practice and specifications - Results from the European LIFE project	<i>Tore Hoel and Paul Hollins</i>	Short
87	Using Chatbots for Network Management Training through Problem -based Oriented Education	<i>Michelle Denise Leonhardt, Liane Tarouco, Rosa Maria Vicari, Elder Rizzon Santos and Michele dos Santos da Silva</i>	Short

111	Instructional Software Analysis: Lessons from Software Development Process Improvement	<i>David Díez, Camino Fernández, Juan Manuel Doderó, Paloma Díaz and Ignacio Aedo</i>	Short
154	Learning Management Systems' database exploration by means of Information Visualization-based query tools	<i>Celmar Guimarães da Silva and Heloísa Vieira da Rocha</i>	Short
170	Effective Student Assistance in Virtual Reality Based Intelligent Tutoring Systems	<i>Leticia Sánchez and Ricardo Imbert</i>	Short
174	A Heuristic Understanding Model	<i>Roland Kaschek, Eyas El-Qawasmeh and Alexei Tretiakov</i>	Short

### Session 11: Technologies for real-time assessment of learning and performance

Session Chair: *Vive Kumar*

21	Bayesian Agent in e-Learning	<i>Maomi Ueno and Toshio Okamoto</i>	Short
66	The Analysis of Simpson's Psychomotor Domain Educational Objectives and its Application on the Skill Evaluation for the Department of Computer Engineering at Vocational School	<i>Wen Chuan Wu, Yi Chyang Yang and Chien Pen Chuang</i>	Short
92	Effect of Learning Styles on Peer Assessment in an Agent-based Collaborative Learning Environment	<i>Chung Hsien Lan, Sabine Graf, K.Robert Lai and Kinshuk</i>	Short

126	Towards Mixed-Initiative Interactions in Novice Programming	<i>Shilpi Rao, Liam Doherty and Vive Kumar</i>	Short
208	Bayesian Modelling of Confusability of Phoneme-Grapheme Connections	<i>Mikko Vilenius, Janne V. Kujala, Ulla Richardson, Heikki Lyytinen and Toshio Okamoto</i>	Short
246	Evaluating Learners' Knowledge-structure using Bayesian networks	<i>Yasuko Namatame and Maomi Ueno</i>	Short

#### Session 12: Workshop IWOM3C

W3-1	Machine-Mediated Communication of information	<i>Adel Elsayed</i>
W3-2	Communication and Design in Multimodal Presentations	<i>Roger Hartley, Adel Elsayed and Milena Pesheva</i>
W3-3	Dimensions of Media Object Comprehensibility	<i>Lawrie Hunter</i>
W3-4	Cooperative Picture Card Dictionary Authoring System For Communicative Language Learning	<i>Masahiro Yachi</i>
W3-5	Applying Web Usage Mining Techniques to Discover Potential Browsing Problems of Users	<i>I-Hsien Ting, Chris Kimble and Daniel Kudenko</i>
W3-6	Semantic processing for text mapping onto information space	<i>Weiqiang Ou and Adel Elsayed</i>

### Session 13: Knowledge Management Technologies in Education

Session Chair: *Monique Grandbastien*

79	An Ontological Approach for Semantic Learning Objects Interoperability	<i>Ming Che Lee, Kun Hua Tsai, Tung Cheng Hsieh, Ti Kai Chiu and Tzone I Wang</i>	Full
120	Toward Making Didactics a Subject of Knowledge Engineering	<i>Rainer Knaf, Yoshitaka Sakurai and Setsuo Tsuruta</i>	Full
130	Using a Competence Model to Aggregate Learning Knowledge Objects	<i>Amal Zouaq, Roger Nkambou and Claude Frasson</i>	Full

### Session 14: CSCL technologies

Session Chair: *Henning Breuer*

273	A Collaborative Support Tool for Creativity Learning: Idea Storming Cube	<i>Chun-Chieh Huang, Tsai-Yen Li, Hao-Chuan Wang and Chun-Yen Chang</i>	Full
276	A Lightweight Open Space for the Classroom – Collaborative Learning with Whiteboards and Pen-Tablets	<i>Henning Breuer, Christian Sousa, Nelson Baloian and Mitsuji Matsumoto</i>	Full
283	An Interaction Study of Learning with Handhelds and Large Shared-Displays in Technology-Enriched Collaborative Classroom	<i>Chen-Chung Liu, Chen-Wei Chung, Yu-Lin Weng, Cheng-Yu Wu and Pei-Ting Kao</i>	Full

### Session 15: New Generations of educational technologies

Session Chair: *Tore Hoel*

95	A Case Study of the Development of e-Learning Systems Following a Component-based Layered Architecture	<i>Delano M. Beder, André C. Silva, Joice L. Otsuka, Celmar G. Silva and Heloísa V. Rocha</i>	Full
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94	CIEL, architectures for collaborative inquiry and experiential learning	<i>Wouter R. van Joolingen, Lars Bollen, Ulrich Hoppe and Ton de Jong</i>	Full
96	A Multi-Agent Formative Assessment Support Model for Learning Management Systems	<i>Joice Lee Otsuka, Heloísa Vieira da Rocha and Delano Medeiros Beder</i>	Full

### Session 16: Personalized systems

Session Chair: *Kirsi Silius*

55	Intelligent Web-based Tutoring System with Personalized Learning Path Guidance	<i>Chin-Ming Hong, Chih-Ming Chen, Mei-Hui Chang and Shin-Chia Chen</i>	Full
59	A Dynamic E-learning System for the Collaborative Business Environment	<i>Hsien-Jung Wu and Shih-Chieh Huang</i>	Full
127	Variety of Quality Experiences on Web-Based Courses	<i>Kirsi Silius and Anne-Maritta Tervakari</i>	Full

### Session 17: Educational technologies for new generations

Session Chair: *Kiyoshi Nakabayashi*

156	Using a Programmable Storytelling Robot to Motivate Learning Second Language	<i>Ying-Tsuan Lu, Chih-Wei Chang and Gwo-Dong Chen</i>	Full
166	Design and Implementation of Video-enabled Web-based Pronunciation Debugging System	<i>Chiung-Fang Chiu, Greg C Lee and Ju-Hsush Yang</i>	Full
270	Automated Course Composition and Recommendation based on a Learner Intention	<i>Kun Hua Tsai, Tung Cheng Hsieh, Ti Kai Chiu, Ming Che Lee and Tzone I Wang</i>	Full

Session 18: Panel 2 - Wednesday 18 July 2007 [16:15 – 17:45]

P1-00	In Search of Quality Learning Technologies for Online Distributed Classrooms	<i>Madhumita Bhattacharya and Jon Dron</i>
P1-01	Lost in the Web 2.0 jungle	<i>Jon Dron and Madhumita Bhattacharya</i>
P1-02	Cultivating the Web 2.0 jungle	<i>Madhumita Bhattacharya and Jon Dron</i>
P1-03	Diversity in online learners: Searching for differences that may matter	<i>Maggie Hartnett, Madhumita Bhattacharya and Jon Dron</i>
P1-04	Interaction analysis to design distributed learning environment	<i>Laila Oubenaïssa-Giardina and Madhumita Bhattacharya</i>
P1-05	Does interactivity with content enhance the quality of learning?	<i>Yasmin Bhattacharya and Madhumita Bhattacharya</i>
P1-06	Challenges for the Enhancement of Learning Activities on Electronic Discussion Forums: with Tools and Educational Programs	<i>Satoru Fujitani</i>
P1-07	Constructive alignment' and learning technologies: some implications for the quality of teaching and learning in higher education	<i>Mike Mimirinis</i>
P1-08	Inspectable Collaborations in Online Distributed Classrooms	<i>Vive Kumar</i>
P1-10	E-portfolio as Intercultural Cognitive Environment to Enhance Teachers' Professional Development and Personal Growth	<i>Laila oubenaïssa-Giardina, Helen Hensler and France Lacourse</i>

### Session 19: CSCL technologies

Session Chair: *Akihiro Kashihara*

- |     |  |   |      |
|-----|--|---|------|
| 301 | From Knowledge Publishing to Peer Review                                       | <i>Akihiro Kashihara and Yasuhiro Kamoshita</i>   | Full |
| 374 | Reach: an Awareness Rich CSCL Text Chat Tool with Real-time Key Typing Display | <i>Wataru Tsukahara, Zhang Zisheng, Shingo Akamatsu, Fumihiko Anma and Toshio Okamoto</i> | Full |

### Session 20: Technologies for real-time assessment of learning and performance

Session Chair: *Cara MacNish*

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|-----|---|--|------|
| 186 | Longitudinal Syntactic Analysis of Laboratory Submissions for Examining Problem-Solving Behaviour | <i>Cara MacNish</i>  | Full |
| 215 | A Mobile Video Question Answering System for E-learning   | <i>Yi-Ting Huang, Ching-I Chung, Chi-Cheng Tsai, Chia-Hsing Shen, Yu-Chieh Wu and Jie-Chi Yang</i> | Full |

### Session 21: Personalized mobile computing for learning and instruction

Session Chair: *Yasuko Namatame*

- |     |   |  |       |
|-----|---|--|-------|
| 163 | Long-term Memory of Foreign-word Learning by Short Movies for iPods | <i>Satoko Amemiya, Kazunori Hasegawa, Keiichi Kaneko, Haruko Miyakoda and Wataru Tsukahara</i> | Short |
| 201 | E-mail-based Education Environment Using Mobile Phone Communication | <i>Toshiyuki Maeda, Tadayuki Okamoto, Tetsushi Miura, Yae Fukushige and Takayuki Asada</i>     | Short |

211	A Platform to Support Anytime, Anywhere, Just-for-me M-Learning	<i>Davide Tosi and Roberto Bisiani</i>	Short
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### Session 22: New Generations of educational technologies

Session Chair: *Yasuhiko Morimoto*

180	Leveraging the Semantic Web for Providing Educational Feedback	<i>Jelena Jovanović, Dragan Gašević, Christopher Brooks, Timmy Eap, Vladan Devedzic, Marek Hatala and Griff Richards</i>	Full
181	AirTransNote: An Instant Note Sharing and Reproducing System to Support Students Learning	<i>Motoki Miura, Susumu Kunifuji and Yasuyuki Sakamoto</i>	Full

### Session 23: Personalized systems

Session Chair: *Kinshuk*

17	A Pilot Study of Applying Hierarchical Curriculum Structure Graph for Remedial Learning	<i>YuLung Wu</i>	Full
167	The Interactive Multimedia Textbook: Using A Digital Pen to Support Learning for Computer Programming	<i>Wei-Chu Lai, Po-Yao Chao and Gwo-Dong Chen</i>	Full

### Session 24: Content authoring technologies

Session Chair: *Madhumita Bhattacharya*

145	Developing a robust authoring annotation system for the Semantic Web	<i>Yan Bodain and Jean-Marc Robert</i>	Full
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212	Virtual Experiment using Cyber Assistant Professor: CAP	<i>Yoshiaki Shindo and Hiroshi Matsuda</i>	Full
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Keynote - Thursday 19 July 2007 [9:30 – 10:15]

Keynote2	Torn between Technology Lust and Teaching Humans	<i>Carmen Taran</i>
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Session 25: Social computing

Session Chair: *Gwo-Jen Hwang*

49	Personalized Annotation Management: A Web 2.0 Social Software for Enhancing Knowledge Sharing in Communities of Practice	<i>Stephen J.H. Yang, Irene Y.L. Chen and Addison Y.S. Su</i>	Short
143	A methodology to facilitate Inter-Trust in Computer Supported Collaborative Learning	<i>Chih-Wei Chang and Gwo-Dong Chen</i>	Short
192	The Use of XML to Create a Historical Knowledge Base	<i>Katsuko T. Nakahira, Masashi Matsui and Yoshiki Mikami</i>	Short
370	A Case Study of Applying SNA to Analyze CSCL Social Network	<i>Zuoliang Chen and Shigeyoshi Watanabe</i>	Short
411	A Swarm Approach for Automatic Auditing of Pedagogical Planning	<i>Sergio Gutiérrez, Grégory Valigiani, Yannick Jamont, Pierre Collet and Carlos Delgado Kloos</i>	Short

## Session 26: e- testing and new test theories

Session Chair: *Carlo Giovannella*

113	Internet-based Survey Design: Principles from a Thai Experimental Study	<i>Poonsri Vate-U-Lan</i>	Full
160	Operationalization of the Metadata Element "Difficulty"	<i>Margit Kastner and Gerhard Furtmüller</i>	Full
275	Quantitative evaluation of Intelligent Ability with Computer Games	<i>Makoto Hasegawa and Yukuo Isomoto</i>	Full
322	MapEvaluator in action: a comparative test on the efficiency of the quantitative concept map evaluation in a primary school	<i>Carlo Giovannella, Paolo Emilio Selva and Sara Fraioli</i>	Full

## Session 27: Knowledge Management Technologies in Education

Session Chair: *Tzone I Wang*

114	Sharing an ontology in Education: Lessons learnt from the OURAL project	<i>Monique Grandbastien, Faïçal Azouaou, Cyrille Desmoulins, Richard Faerber, Dominique Lecllet and Céline Quénu-Joiron</i>	Full
152	Indicators' Elicitation Process for Re-Engineering of Learning Scenario: Tracks Approach Based on Usage Tracking Language	<i>Noa Randriamalaka, Sébastien Iksal and Christophe Choquet</i>	Full
161	mArachna - Applying Natural Language Processing Techniques to Ontology Engineering	<i>Sabina Jeschke, Nicole Natho, Sebastian Rittau and Marc Wilke</i>	Full
219	Streaming Multimedia Delivery in Web Services Based E-Learning Platforms	<i>Gibson Lam and David Rossiter</i>	Full

## Session 28: Personalized mobile computing for learning and instruction

Session Chair: *Kiyoshi Nakabayashi*

50	Applying Content Adaptation Technique to Enhance Mobile Learning on Blackboard Learning System	<i>Stephen J.H. Yang, Irene Y.L. Chen and Rick Chen</i>	Full
68	Design and Implementation of a Mobile Learning Environment as an Extension of SCORM 2004 Specifications	<i>Kiyoshi Nakabayashi, Takahide Hoshide, Masanobu Hosokawa, Taichi Kawakami and Kazuo Sato</i>	Full
300	Adaptable InfoStation-based mLecture Service Provision within a University Campus	<i>Ivan Ganchev, Stanimir Stojanov, Mairtin O'Droma and Damien Meere</i>	Full
309	Architecture of a Context-aware and Adaptive Learning Schedule for Learning Java	<i>Jane Yau and Mike Joy</i>	Full

## Session 29: New Generations of educational technologies

Session Chair: *Imed Hammouda*

115	Replacing the Monolithic LOM: A Folksonomic Approach	<i>Hend S. Al-Khalifa and Hugh C. Davis</i>	Full
148	Learning Information Systems Engineering and Its Management from Experience of a Tiny Project through University-Industry Collaboration	<i>Yoshiaki Matsuzawa and Hajime Ohiwa</i>	Full
150	Two different methods to analyze the strategies of problem solving in a natural situation using a simulator: A case study	<i>Jean-Marc Labat, Pierre Pastré, Pierre Parage, Michel Futtersack, Jean-François Richard and Emmanuel Sander</i>	Full
155	Building an Interactive Caring Agent for Students in Computer-based Learning Environments	<i>Tzung-Yi Lee, Chih-Wei Chang and Gwo-Dong Chen</i>	Full

### Session 30: Workshop WALTD

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|--------|---|--|
| WALTD1 | Training of Speechreading for Severely Hearing-Impaired Persons by Human and Computer                                       | <i>Hans-Heinrich Bothe</i>                       |
| WALTD2 | Mathematical Working Environments for the Blind: What is Needed Now?  | <i>Dominique Archambault and Bernhard Stöger</i> |
| WALTD3 | Teaching Science subjects to Blind Students   | <i>Dónal Fitzpatrick</i>                         |
| WALTD9 | A User-Centred Approach For Developing Advanced Learning Technologies Based On the Comprehensive Assistive Technology Model | <i>Marion A. Hersh and Michael A. Johnson</i>    |

### Session 31 – Posters 1 – Thursday 19 July 2007 [14:00 – 15:00]

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|----|--|---|
| 3  | Concerto II: A Learning Community Support System Based on Question-posing  | <i>Atsuo Hazeyama and Yuuki Hirai</i>                                   |
| 5  | Managing Personalized and Adapted Medical Learning Objects   | <i>Juha Puustjärvi and Leena Puustjärvi</i>                             |
| 12 | Standards and Tools for Context-Aware Ubiquitous Learning  | <i>Fan-Ray Kuo, Gwo-Jen Hwang, Yen-Jung Chen and Shu-Ling Wang</i>      |
| 27 | A Conceptual Structure for Organizational Learning and Organizational Performance                                  | <i>Li Zhang, Qiong Jia and Ping Li</i>                                  |
| 29 | Proactive e-Learning Management System   | <i>Denis Zampuniéris</i>  |
| 31 | Experiences of Adopting In-class Blogs in the Teaching of Hands-on Computer Laboratory Courses                     | <i>Yao-Jen Chang and Chiu-Hui Chen</i>                                  |
| 36 | Social Network Analysis of Interaction in Online Learning Communities  | <i>Yonggu Wang and Xiaojuan Li</i>                                      |
| 56 | Personalized E-Learning System with Self-Regulated Learning Assisted Mechanisms for Promoting Learning Performance | <i>Chih-Ming Chen, Ting-Chun Huang, Tai-Hung Li and Chia-Meng Huang</i> |

60	Handheld Computer Supported Context-aware learning with 2D Barcodes	<i>Yu-Ling Chu and Tsung-Yu Liu</i>
77	The role of evaluation in an effective development of didactic materials: The MD2 approach	<i>Carmen L. Padrón, Paloma Díaz and Ignacio Aedo</i>
83	The Effects of Knowledge Sources and Learning Styles of the Elders on Their Motivations to Use Weblog Tools for Lifelong Learning	<i>Li-Chieh Chen, Po-Ying Chu, Chang-Chen Lin and Yun-Maw Cheng</i>
91	Combine Adaptive Education Hypermedia and SCORM compliant Learning Management Systems	<i>Ioannis Kazanidis and Maya Satratzemi</i>
105	A Learning Support System by Reflection and Knowledge Collaboration in a Software Engineering Project Course and Its Preliminary Evaluation	<i>Atsuo Hazeyama, Chika Takayama, Yuusuke Kobayashi and Yoshihide Ohgame</i>
110	Enabling Knowledge Sharing with an Institutional Repository	<i>Gayatri Doctor and Smitha Ramachandran</i>
117	FM and Web Broadcasting Systems for Mobile Language Listening	<i>Wang Shudong and Neil Heffernan</i>
132	The Development of Computerized Two-tier Diagnostic Test and Remedial Learning System for Elementary Science Learning	<i>Ah-Fur Lai</i>
133	Development and Evaluation of a Self-Regulatory-Learning-Cycle-Based System for Self-Regulated e/m-Learning	<i>Kuei-Ping Shih, Tai-Chien Kao, Chih-Yung Chang and Hung-Chang Chen</i>
134	A Multi-Parameters Personalization Approach of Learning Scenarios	<i>Fathi Essalmi, Leila Jemni Ben Ayed and Mohamed Jemni</i>
142	Impact of Process Goal and Outcome Goal on Learning Performance for Web-based Learners	<i>Nian-Shing Chen, Kinshuk, Chun-Wang Wei and Feng-Hsien Hsu</i>
164	The application of IMS Learning Design to Develop Compute-based Educational Game	<i>Miaomiao Zeng and Yueliang Zhou</i>
165	The Analysis of Response Patterns on IRT Ability Estimation Methods in Computerized Adaptive Test	<i>Deng-Jyi Chen, Ah-Fur Lai and Chia-Chi Mao</i>
178	Adaptable Instructional Images versus Adaptable Instructional Video: Comparison of the Two Methods of Instruction and Results of a Post-Research Survey	<i>Stavros K. Filippidis and Ioannis A. Tsoukalas</i>

188	Teaching UML Modeling Before Programming at the High School Level	<i>Cortland Starrett</i>
196	CLUSPI® Support for Collaborative Learning in a Dynamic Group Environment	<i>Kamen Kanev, Deborah Turk, John Brine and Thomas Orr</i>
206	Virtual Laboratory with Force Feedback Device for Physics Collaborative Learning using Lever Content	<i>Hiroyuki Hamanaka, Yukihiro Matsubara and Noriyuki Iwane</i>
210	A Scoring Tool for Electronic Paper Exams	<i>Narcis Lozano, Koichi Hirose and Masaki Nakagawa</i>

### Session 32: Data mining, text mining, and web mining in education

Session Chair: *Mykola Pechenizkiy*

57	Personalized E-learning System based on Ontology-based Concept Map Generation Scheme	<i>Chih-Ming Chen and Chi-Jui Peng</i>	Short
227	Observation Scenario Development Using Recommendations	<i>Vincent Barre, Christophe Choquet and Sébastien Iksal</i>	Short
377	Discovering new knowledge with advanced data mining tool	<i>Simon Kocbek, Primoz Kosec, Peter Kokol, Mitja Lenic and Matjaz Debevc</i>	Short

### Session 33: CSCL technologies

Session Chair: *Akihiro Kashihara*

67	A Web-based Visual Simulator with Communication Support and its Application to Computer Architecture Education	<i>Yoshiro Imai, Keiichi Kaneko and Masaki Nakagawa</i>	Full
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102	Assessing Collaborative Process in CSCL with an Intelligent Content Analysis Toolkit	<i>Yanyan Li, Jing Wang, Jian Liao, Donglun Zhao and Ronghuai Huang</i>	Full
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#### Session 34: Educational technologies for new generations

Session Chair: *Yasuko Namatame*

62	Analyzing the Motivation of the Students in the Art Faculty for Learning Programming	<i>Yasuhiro Takemura, Hideo Nagumo, Hidekuni Tsukamoto and Kuo-Li Huang</i>	Short
99	Authoring Tools in e-Learning: A Case Study	<i>Yaming Tai and Robert Yu-Liang Ting</i>	Short
200	A Pilot Study on 3G Mobile Phone and Two Dimension Barcode in Classroom Communication and Support System	<i>Prach Chaisatien and Kanji Akahori</i>	Short

#### Session 35: Technologies for real-time assessment of learning and performance

Session Chair: *Steven Tanimoto*

410	Sequential Input Graphical Model Assessment Diagrams for Analysis of Student Activity Data	<i>Steven Tanimoto, Nathan Evans and Adam Carlson</i>	Full
421	Using Graphical Models to Unobtrusively Assess Student Performance in Educational Image Processing Activities	<i>Steven Tanimoto, Nathan Evans and Adam Carlson</i>	Full

### Session 36: New Generations of educational technologies

Session Chair: *Roger Hartley*

189	Data Flow between Tools: Towards a Composition-Based Solution for Learning Design	<i>Luis Palomino-Ramírez, Alejandra Martínez-Monés, Miguel L. Bote-Lorenzo, Juan I. Asensio-Pérez and Yannis A. Dimitriadis</i>	Full
232	Robot as a Storytelling Partner in the English Classroom - Preliminary Discussion	<i>Chao-Fen Shih, Chih-Wei Chang and Gwo-Dong Chen</i>	Full

### Session 37: Personalized systems

Session Chair: *Marta Costa Rosatelli*

245	Analysing the Relationship between Learning Styles and Cognitive Traits	<i>Sabine Graf, Taiyu Lin and Kinshuk</i>	Full
349	An Approach to Personalisation in E-learning	<i>Itana Stiubiener, Wilson Vicente Ruggiero and Marta Costa Rosatelli</i>	Full

### Session 38: Personalized mobile computing for learning and instruction

Session Chair: *Nelson Baloian*

286	Memorization and training activities in mobile devices	<i>Ainara Urrutia, Naiara Maya, Josune Gereka, Ohian Odriozola, Jon A. Elorriaga and Ana Arruarte</i>	Short
304	Mobile Computing to Seamlessly Integrate Formal and Informal Learning	<i>Henning Breuer, Roberto Konow, Nelson Baloian and Gustavo Zurita</i>	Short
385	Constructing the game-based learning environment on handheld devices to facilitate English vocabulary building	<i>Hui-Chun Hung and Shelley Shwu-Ching Young</i>	Short

### Session 39: CSCL technologies

Session Chair: *Ulrich Hoppe*

- |     |  |   |       |
|-----|--|---|-------|
| 306 | A Prototype Live Virtual Classroom for Shared Tertiary Instruction   | <i>Mici Halse, Brenda Mallinson and Greg Foster</i>                             | Short |
| 230 | Constructing an authentic learning community through Wiki for advanced group collaboration and knowledge sharing | <i>Chien-Hui Lin, Liang-Yi Li ,Wen-Chu Hu, Gwo-Dong Chen and Baw-Jhiune Liu</i> | Short |
| 401 | A Broker Architecture for Integration of Heterogeneous Applications for Inquiry Learning                         | <i>Lars Bollen, Andreas Harrer, H. Ulrich Hoppe and Wouter van Joolingen</i>    | Short |

### Session 40: Educational technologies for new generations

Session Chair: *David E. Millard*

- |     |  |  |      |
|-----|--|--|------|
| 332 | Active Learning based on Contents-Sharable Management System - Its Functions and Practices - | <i>Mizue Kayama and Toshio Okamoto</i>   | Full |
| 353 | Towards a Canonical View of Peer Assessment  | <i>David E. Millard, Karen Fill, Lester Gilbert, Yvonne Howard, Patrick Sinclair, Damilola O. Senbanjo and Gary B. Wills</i> | Full |

### Session 41: New Generations of educational technologies

Session Chair: *Miguel L. Bote-Lorenzo*

- |     |   |  |      |
|-----|---|--|------|
| 247 | A Grid Service-Based Collaborative Network Simulation Environment for Computer Networks Education | <i>Miguel L. Bote-Lorenzo, Juan I. Asensio-Pérez, Eduardo Gómez-Sánchez, Guillermo Vega-Gorgojo, Yannis A. Dimitriadis and Sergio Guíñez-Molinos</i> | Full |
|-----|---|--|------|

278	A Wireless Sensor-based Toolkit for Building Tangible Learning Systems	<i>Imran A. Zualkernan, Abdul-Rahman Al-Ali, Hassan A. M. Muhsen, Mohammadhossein Afrasiabi and Serop Babikian</i>	Full
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#### Session 42: Personalized systems

Session Chair: *Elvira Popescu*

352	Towards a Unified Learning Style Model in Adaptive Educational Systems	<i>Elvira Popescu, Philippe Trigano and Costin Badica</i>	Full
394	To improve Bayesian Network Learner Modelling thanks to Multinet	<i>Mathieu Hibou and Jean-Marc Labat</i>	Full

#### Session 43: New Generations of educational technologies

Session Chair: *Ignacio Aedo*

185	Towards a Computer-based Supporting Infrastructure for Outcome-based Education	<i>Mangtang Chan, Florence Yu Mong and Francis Kar Ho Chan</i>	Short
225	Data-Driven Approach to Pronunciation Error Detection for Computer Assisted Language Teaching	<i>Min-Siong Liang, Zien-Yong Hong, Ren-Yuan Lyu and Yuang-Chin Chiang</i>	Short
255	Learning Objects Reusability and Retrieval through Ontological Sharing: A Hybrid Unsupervised Data Mining Approach	<i>Ching-Chieh Kiu and Chien-Sing Lee</i>	Short

#### Session 44: Content authoring technologies

Session Chair: *Maomi Ueno*

187	Assisted Ontology Instantiation: a LearningKit perspective	<i>Liam Doherty, Vive Kumar and Phil Winne</i>	Short
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231	An analysis using eye-mark recorder of the effectiveness of presentation methods for e-learning	<i>Masahiro Ando, Masahito Nagamori, Pokpong Songmuang, Maomi Ueno and Toshio Okamoto</i>	Short
239	Functionality and SCORM-compliancy Evaluation of eLearning Tools	<i>Ivan Ganchev, Mairtin O'Droma and Radoslav Andreev</i>	Short
284	Finding the Right Tool for the Community: Bringing a Wiki-Type Editor to the World of Reusable Learning Objects	<i>Chu Wang, Hugh C Davis, Kate Dickens, Gary Wills and Su White</i>	Short
326	Doctorate_machine: An Innovative Tool for a Non Paper Ph.D. Dissertation	<i>Manthos Santorineos</i>	Short
383	Usability of a Content Construction System for Collaborative Learning	<i>Tomoo Inoue, Naoko Yoshimura, Shigeo Sugimoto and Noriko Kando</i>	Short

#### Session 45: Knowledge Management Technologies in Education

Session Chair: *Nicole Natho*

42	Organizational Memory towards School Customs Constructing	<i>Yueliang Zhou and Jingyao Wang</i>	Short
162	Can Learning Object Metadata stand as Learning Resource Models for iLMS?	<i>Lahcen Oubahssi and Monique Grandbastien</i>	Short
169	Services for Knowledge Resource Sharing & Management in an Open Source Infrastructure for Lifelong Competence Development	<i>Elena Demidova, Philipp Kärger, Daniel Olmedilla, Stefaan Ternier, Erik Duval, Michele Dicerto, Carlos Mendez and Krassen Stefanov</i>	Short

173	A taxonomy for cataloging LOs using IEEE educational metadata	<i>Pierpaolo Di Bitonto, Vito Leonardo Plantamura, Teresa Roselli and Veronica Rossano</i>	Short
262	The Web 2.0 Driven SECI Model Based Learning Process	<i>Mohamed Amine Chatti, Ralf Klamma, Matthias Jarke and Ambjörn Naeve</i>	Short
382	Modeling and Building Intelligent Learning Environments through Intelligent Learning Objects	<i>Júlia Marques Carvalho da Silva and Ricardo Azambuja Silveira</i>	Short

#### Session 46: Personalized mobile computing for learning and instruction

Session Chair: *Stephen J.H. Yang*

24	Personalized Context-Aware Ubiquitous Learning System for Supporting Effectively English Vocabulary Learning	<i>Chih-Ming Chen, Yi-Lun Li and Ming-Chuan Chen</i>	Short
34	RFID-based Ubiquitous Learning Environment for Outdoor Learning	<i>Tsung-Yu Liu, Yu-Ling Chu, Tan-Hsu Tan and Chi-Cheng Chang</i>	Short
74	Conceptual Multi-Device Design on the Transition between e-learning and m-learning	<i>Rodrigo de Oliveira and Heloísa Vieira da Rocha</i>	Short
98	The Advanced Mobile Learning Practices: Learning Features and Implications	<i>Robert Yu-Liang Ting</i>	Short
146	An Adaptive Framework for Aggregating Mobile Learning Materials	<i>Meng-Chien Yang</i>	Short
151	Context-Aware Ubiquitous English Learning in a Campus Environment	<i>Hsin-Chun Hsieh, Chih-Ming Chen and Chin-Ming Hong</i>	Short

## Session 47: New Generations of educational technologies

Session Chair: *Chris Stary*

281	Integrating face recognition techniques with blog as a distance education support system (DESS) in international distance learning	<i>Hsiu-Ping Yueh, Yi-Ling Liu, Wei-Jane Lin, Tetsuo Shoji and Michihiko Minoh</i>	Full
290	Intelligibility Catchers for Self-Managed Knowledge Transfer	<i>Chris Stary</i>	Full
307	Geography Learning Technology Based on 3D CG with Geography Data Archives	<i>Daisuke Yoshino, Satoshi Kishira, Miyuki Shimizu, Kensei Tsuchida, Shin-ya Uehara and Takeo Yaku</i>	Full
371	Building a Babel Tower in 21st Century: Supporting Cross-Cultural Collaboration and Learning in a 3D CVE Spanning Three Continents	<i>Ekaterina Prasolova-Førland and Teng-Wen Chang</i>	Full

## Session 48: Personalized systems

Session Chair: *Dietrich Albert*

28	The PLExus Prototype: A PLE realized as Topic Maps	<i>Line Kolås and Arvid Staupe</i>	Short
41	Personality and collaborative learning experience	<i>Amal Al-Dujaily and Hokyoung Ryu</i>	Short
85	Cognitive Structural Modelling of Skills for Technology-Enhanced Learning	<i>Dietrich Albert, Cord Hockemeyer, Birgit Mayer and Christina M. Steiner</i>	Short
109	The adaptive and intelligent testing framework: PersonFit	<i>Komi Sodoké, Gilles Raïche and Roger Nkambou</i>	Short
124	The Open Lausanne Model: A reference model for Open Adaptive Learning Objects Systems	<i>Hend Madhour and Maia Wentland Forte</i>	Short

204	Personalized Courses Recommendation Functionality for Flex-eL	<i>Alex Pongpech, Maria E. Orlowska and Shazia W. Sadiq</i>	Short
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#### Session 49: Workshop EDM

W- EDM1	Workshop on Educational Data Mining @ ICALT07 (EDM@ICALT07)	<i>Joseph E. Beck, Toon Calders, Mykola Pechenizkiy and Silvia Rita Viola</i>
W- EDM2	A Outliers Analysis of Learner's Data based on User Interface Behaviors	<i>Yong Se Kim, Tae Bok Yoon, Hyun Jin Cha, Young Mo Jung, Eric Wang and Jee Hyong Lee</i>
W- EDM3	A Framework for Using Web Usage Mining to Personalise E- learning	<i>Hafidh Ba-Omar, Ilias Petrounias and Fahad Anwar</i>
W- EDM4	User Session Models for Educational Systems based on Multiple Knowledge Structures	<i>Judit Jassó and Alfredo Milani</i>
W- EDM5	Analyzing the Data Collected by Programming Tutors that Provide Post-Practice Reflection	<i>Amruth Kumar and Peter Rutigliano</i>

Keynote - Friday 20 July 2007 [9:30 – 10:15]

Keynote3 Does Elearning Have To Be So Awful? *Marc Eisenstadt*  
(Time to Mashup or Shutup)

Session 50: Personalized systems

Session Chair: *Sabine Graf*

294	Principles for Designing Activity-based Personalized eLearning	<i>Owen Conlan, Ian O’Keeffe, Aoife Brady and Vincent Wade</i>	Short
234	Interoperable Bayesian Agents for Collaborative Learning	<i>Elisa Boff, Elder Rizzon Santos, Moser S. Fagundes and Rosa Maria Vicari</i>	Short
320	Cognitive Trait Model and Divergent Associative Learning	<i>Taiyu Lin, Kinshuk and Sabine Graf</i>	Short

Session 51: e-Pedagogy and Instructional Design

Session Chair: *Megan Hastie*

81	Analysis of Time-Management Pattern of Interactive Behaviors during Online Project-Based Learning	<i>Huei-Tse Hou, Kuo-En Chang and Yao-Ting Sung</i>	Full
100	Best Practice Instructional Design in the Synchronous Cyber Classroom for Early Childhood Students	<i>Megan Hastie, Nian-Shing Chen and Yen-Hung Kuo</i>	Full

### Session 52: New Generations of educational technologies

Session Chair: *Rosa Michaelson*

- |     |   |   |      |
|-----|---|---|------|
| 376 | The TenC Competence Observatory: An Enabling Technology for Common Description of Competences | <i>Panayiotis Zervas and Demetrios Sampson</i>                      | Full |
| 378 | An Evaluation Framework for Grid-based Learning Technologies                                  | <i>Colin Allison, Tim Storer, Stuart Purdie and Rosa Michaelson</i> | Full |

### Session 53: Content authoring technologies

Session Chair: *Alexandra Cristea*

- |     |  |   |      |
|-----|--|---|------|
| 249 | A Collaborative Medical Case Authoring Environment Based on UMLS         | <i>Siriwan Suebnukarn, Phattanon Rienmora and Peter Haddawy</i> | Full |
| 316 | Evaluating the automatic and manual creation process of adaptive lessons | <i>Maurice Hendrix, Alexandra Cristea and Mike Joy</i>          | Full |

### Session 54: New Generations of educational technologies

Session Chair: *Hugh C Davis*

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|-----|---|--|-------|
| 177 | Integrated Paper Slide in Classroom to Enhance Interaction Using Digital Pens | <i>Yi-Ping Lin, Po-Yao Chao, Gwo-Dong Chen and Jorng-Tzong Horng</i> | Short |
|-----|---|--|-------|

244	Towards a Common Graphical Language for Learning Flows: Transforming BPEL to IMS Learning Design Level A Representations	<i>Pythagoras Karampiperis and Demetrios Sampson</i>	Short
279	The Software Equipments based on Simulator	<i>Takahiro Masuda, Hiroshi Suda and Yoshiro Miida</i>	Short

#### Session 55: Data mining, text mining, and web mining in education

Session Chair: *Tatsunori Matsui*

15	Edu-mining for finding keywords to improve message-production skills	<i>Ryo Nagata, Koji Suda, Junichi Kakegawa, Koichiro Morihiro and Kazuhiko Showji</i>	Full
205	Using machine learning to predict learner emotional state from brainwaves	<i>Alicia Heraz, Ryad Razaki and Claude Frasson</i>	Full

#### Session 56: Technologies for real-time assessment of learning and performance

Session Chair: *Raquel Hijón-Neira*

271	A Software System for Second-Language Vocabulary Learning	<i>Yukiko Sasaki Alam</i>	Short
343	Assessing the Usability of a Cookies-Based Access Monitoring Tool for a CMS	<i>Raquel Hijón-Neira, Jaime Urquiza-Fuentes, Francisco Domínguez-Mateos and J. Ángel Velázquez-Iturbide</i>	Short
359	Augmented Interface for Children Chinese Learning	<i>Chien-Hsu Chen, Chun Chin Su, Po-Yen Lee and Fong-Gong Wu</i>	Short

### Session 57: e-Pedagogy and Instructional Design

Session Chair: *Maya Satratzemi*

- |     |   |  |      |
|-----|---|--|------|
| 137 | Reusing Pedagogical Scenarios at a Knowledge Level: a Model Driven Approach | <i>Hassina El-Kechai and Christophe Choquet</i>                    | Full |
| 147 | Re-designing an OOP course based on BlueJ                                   | <i>Stelios Xinogalos, Maya Satratzemi and Vassilios Dagdilelis</i> | Full |

### Session 58: New Generations of educational technologies

Session Chair: *James Ohene-Djan*

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|-----|---|---|------|
| 392 | Maths Adaptive Tutorial System for Learners With Disabilities | <i>James Ohene-Djan and Benoy Sen</i>   | Full |
| 409 | Grid Enabled Collaborative Learning                           | <i>Colin Allison, Ross Nicoll, Stuart D J Purdie, Marc Eisenstadt, Jiri Komzak and Chris Denham</i> | Full |

### Session 59: Personalized systems

Session Chair: *Ekaterina Vasilyeva*

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|-----|---|--|-------|
| 327 | A Contextualization Method of Browsing Events in Web-based Learning Content Management System for Personalized Learning | <i>Feng-Hsu Wang</i>   | Short |
| 361 | An optimized algorithm for distributing large numbers of students to small exercise groups                              | <i>Sabina Jeschke, Robert Luce, Olivier Pfeiffer and Erhard Zorn</i> | Short |

362	Personalization of Immediate Feedback to Learning Styles	<i>Ekaterina Vasilyeva, Mykola Pechenizkiy, Tatiana Gavrilova and Seppo Puuronen</i>	Short
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Session 60: Data mining, text mining, and web mining in education

Session Chair: *Tatsunori Matsui*

288	Visualizing Narrative Structures and Learning Style Information in Personalized e-Learning Systems	<i>Fionán Peter Williams and Owen Conlan</i>	Full
395	An Evaluation of Automatic Text Categorization in Online Discussion Analysis	<i>Andrew Kwok-Fai Lui, Siu Cheung Li and Sheung On Choy</i>	Full

Session 61: New Generations of educational technologies

Session Chair: *Yasuko Namatame*

280	Adapting health care competencies to a formal competency model	<i>Onjira Sitthisak, Lester Gilbert, Hugh C Davis and Mary Gobbi</i>	Short
305	Engineering Heterogeneous Distributed Learning Environments Using Tuple Spaces as an Architectural Platform	<i>Stefan Weinbrenner, Adam Giemza and H. Ulrich Hoppe</i>	Short
348	Concern-based Learning of Complex Software Platforms	<i>Imed Hammouda, Mika Jokinen, André L. Santos and Kai Koskimies</i>	Short

Session 62 – Posters 2 – Friday 20 July 2007 [14:00 – 15:00]

- |     |   |   |
|-----|---|---|
| 228 | Geographical Concept Recognition With the Octgrid Method for Learning Geography and Geology                         | <i>Ryusuke Yokoyama, Akira Kureha, Tomoe Motohashi, Hiroyasu Ogasawara, Takeo Yaku and Daisuke Yoshino</i>                    |
| 229 | Collaborative e-Learning Among Teachers Using a Web Database in Special Support Education                           | <i>Masahito Nagamori, Msahiro Ando, Masaki Nagasawa, Pokpong Songmuang and Maomi Ueno</i>                                     |
| 235 | An Integrative Model for the Evaluation of E-portfolios   | <i>Madhumita Bhattacharya and Shannon Novak</i>   |
| 238 | SWAPS: Semantic Web Approach for Personalisation of Study   | <i>German Nemirovskij, Michael Thomas Egner and Eberhard Heuel</i>  |
| 250 | Delivering IMS Learning Design Activities via Mobile Devices  | <i>Demetrios Sampson, Kerstin Götze and Panayiotis Zervas</i>   |
| 252 | Cloze Information Gap Tasks with Print-Based Digital Content Interfaces   | <i>John Brine, Kamen Kanev, Thomas Orr and Deborah Turk</i>   |
| 264 | Integrating Dynamic Program Visualization into BlueJ: the Jeliot 3 Extension  | <i>Niko Myller, Roman Bednarik and Andrés Moreno</i>  |
| 265 | A music programming tool for learning object-oriented concepts  | <i>Hyosook Jung and Seongbin Park</i>   |
| 267 | An Automatic Quiz Generation System for English Text  | <i>Li-Chun Sung, Yi-Chien Lin and Meng Chang Chen</i>   |
| 282 | Conducting Classroom Discussions in the Manner of an Orchestra Using a Mobile Phone Based Response Analyzing System | <i>Ryo Nakai and Keizo Nagaoka</i>  |
| 285 | A Framework for Research on Technology-Enhanced Special Education   | <i>Ilkka Jormanainen, Eija Kärnä-Lin, Lauri Lahti, Kaisa Pihlainen-Bednarik, Erkki Sutinen, Jorma Tarhio and Marjo Virnes</i> |
| 287 | The Question Model inside ArikIturri  | <i>Itziar Aldabe, Maddalen Lopez de Lacalle, Montse Maritxalar and Edurne Martinez</i>  |
| 289 | E-Testing Construction Support System with some Prediction Tools  | <i>Pokpong Songmuang, Masahiro Ando, Masahito Nagamori, Maomi Ueno and Toshio Okamoto</i>                                     |

292	The use of practitioners concepts of inclusivity to inform the planning of learning activities	<i>Emma Bradburn</i>
299	A Participatory Learning Environment by Using Voice Trackback System in Zoological Garden	<i>Yutaro Ohashi, Shuichi Nagata, Hiroshi Mashima, Hideaki Ogawa and Makoto Arisawa</i>
303	Educational Information Search Service Using Ontology	<i>Byoungchol Chang, Dall-ho Ham, Dae-sung Moon, Yong S Choi and Jaehyuk Cha</i>
308	Bridging the Gap between Advanced Distributed Teaching and the Use of Learning Management Systems in the University Context	<i>Ari Marko Wahlstedt and Anne Marita Honkaranta</i>
318	Development of a Know-how Information Sharing System for Care Planning Processes	<i>Kaoru Eto, Tatsunori Matsui and Yasuo Kabasawa</i>
319	An Architecture for Dynamic Generation of QTI 2.1 Assessments for Mobile Devices Using Flash Lite	<i>Imran A. Zualkernan, Yaser A. Ghanam, Mohammed F. Shoshaa and Amir S. Kalbasi</i>
336	Innovative Technologies for Learning in Science Laboratories	<i>Frédéric Fournier and Martin Riopel</i>
350	An Educational System that Explains the Domain-oriented-explanation of Program's Behaviors	<i>Fumihiko Anma, Tomonori Kato, Tatsuhiro Konishi, Yukihiro Itoh and Toshio Okamoto</i>
360	Embracing Cognitive Aspects in Web Personalization Environments – The AdaptiveWeb Architecture	<i>Panagiotis Germanakos, Nikos Tsianos, Zacharias Lekkas, Constantinos Mourlas, Marios Belk and George Samaras</i>
386	A Pedagogy-driven Personalization Framework to Support Adaptive Learning Experiences	<i>Polyxeni Arapi, Nektarios Moumoutzis, Manolis Mylonakis and Stavros Christodoulakis</i>
391	Designing a Bayesian Network based Student Model for Distance Learning Environments	<i>Michele Silva, Ricardo Silveira, Cecília Flores and Rosa Vicari</i>
413	WebLD: A Web Portal to Design IMS LD Units of Learning	<i>Eduardo Sánchez, Manuel Lama, Ricardo R. Amorim and Angel Negrete</i>
416	Learning Mechanisms for a Tutoring Cognitive Agent	<i>Usef Faghihi, Daniel Dubois and Roger Nkambou</i>

422 The Design of e-Learning Environment Oriented for Personalized Adaptability *Toshie Ninomiya, Ken Nakayama, Miyuki Shimizu, Fumihiko Anma and Toshio Okamoto*

Session 63: New Generations of educational technologies

Session Chair: *Colin Allison*

415 Designing Innovative Learning Activities Using Ubiquitous Computing *Arianit Kurti, Marcelo Milrad and Daniel Spikol* Full

423 A Web-based Question Answering System for Effective e-Learning *Sangeetha Parthasarathy and Jinlin Chen* Full

Session 64: Personalized systems

Session Chair: *Bich-Liên Doan*

406 A Semi-Automatic Tool for Personalizing and Reusing Web Learning Resources *Doina Babu, Bich-Liên Doan and Yolaine Bourda* Short

408 PALS2: Pedagogically Adaptive Learning System based on Learning Styles *Melody Siadaty and Fattaneh Taghiyareh* Short

417 Automatic Evaluation of Spatial Representations for Complex Robotic Arms Manipulations *Philippe Fournier-Viger, Roger Nkambou, André Mayers and Daniel Dubois* Short

Session 65: New Generations of educational technologies

Session Chair: *Brent N. Reeves*

419 A Framework for Automated Diagram Assessment in Online Learning *Sandra B. Fan and Steven L. Tanimoto* Short

424	Zing'Em: a Web-based Likert-scale Student-Team Peer Evaluation Tool	<i>Brent N. Reeves</i>	Short
209	Activity theory and its application in analysing an immersive virtual reality-enhanced constructivist learning environment	<i>Ros Aizan Yahaya</i>	Full

### Session 66: e-Pedagogy and Instructional Design

Session Chair: *Meng-Jung Tsai*

10	A Pilot Study of the Development of Online Learning Strategies Scale (OLSS)	<i>Meng-Jung Tsai</i>	Short
261	From UML to CPM: a few lessons learnt about CPM language usability	<i>Thierry Nodenot</i>	Short
312	Graphical representation of abstract learning scenarios: the UML4LD experimentation	<i>Pierre Laforcade</i>	Short

### Session 67: Educational technologies for new generations

Session Chair: *Stavroula Zoi*

226	Proposal of Registry System for Sharing Educational Web Service	<i>Youji Ochi and Yoneo Yano</i>	Short
236	Impediments to adoption of e-Learning technology in combating anti-money laundering in UAE banks	<i>Alya Al Hammadi, Imran A. Zualkernan and Rana Ahmed</i>	Short
330	Towards Defining a Suitable Environment for Teaching Digital Arts: The Delphous Experiment	<i>Manthos Santorineos, Stavroula Zoi, Nefeli Dimitriadi and Chu-Yin Chen</i>	Short

## Session 68: Organizational Management of e-Learning in Universities

Session Chair: *Mohamed Hamada*

22	A Model for Analyzing and Evaluating the Return on Investment in e-Learning	<i>Ling-yun Yi, Ming-zhang Zuo and Zhi-xin Wang</i>	Short
202	Web-based Active e-Learning Tools for Automata Theory	<i>Mohamed Hamada</i>	Short
296	A Study of Using Analytic Hierarchy Process to Explore Critical Success Factors of the K12 Digital School	<i>Sheng-Wen Hsieh, Nian-Shing Chen, Min-Ping Wu and Ying-Hsiu Chen</i>	Short

## Tutorials - Friday 20 July 2007 [16:45 – 19:45]

Tut1	Authoring of Adaptive Educational Hypermedia	<i>Alexandra Cristea</i>
Tut2	Innovations in e-Pedagogy	<i>Vive Kumar</i>
Tut3	Creating E-portfolio with OSP	<i>Madhumita Bhattacharya and Mike Mimirinis</i>