

Computers and Advanced Technology in Education ~CATE 2006~

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The International Association of Science and Technology for Development (IASTED)

- Technical Committee on Advanced Technology in Education

World Modelling and Simulation Forum (WMSF)

CONFERENCE CHAIR

Prof. Vladimir Uskov - Bradley University, USA

KEYNOTE SPEAKERS

Dr. Elliot Soloway - University of Michigan, USA

Dr. Cathie Norris - University of North Texas, USA

INVITED SPEAKER

Prof. Valeri Pougatchev - University of Technology, Jamaica

TUTORIAL PRESENTATION

Dr. Cathie Norris - University of North Texas, USA

Dr. Elliot Soloway - University of Michigan, USA

SPECIAL SESSION ORGANIZERS

Prof. Dr. Heinz Mandl - University of Munich, Germany

Prof. Dr. Luis Anido - University of Vigo, Spain

Prof. Dr. Alexander Ivannikov - State Research Institute of Information and Telecommunication Technologies, Russia

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T. Herman – Bowling Green State University, USA

J. Hopkins – Leeds College of Technology, UK

M.M. Htay – Radford University, USA

A. Ivannikov – State Research Institute on Information and Telecommunication Technologies "INFORMIKA", Russia

J. Karet – Chaffey College, USA

M. Khan – Ministry of Education, Singapore

C. Kiyari – Institute of Tropical Medicine Alexander von Humboldt, Peru

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A. Lazakidou - University of Piraeus, Greece

T. Leacock - Simon Fraser University, Canada

E. Levner - Holon Academic Institute of Technology, Israel

M. Li - University of Science & Technology of China, PRC

M. Liberzon - Tsiolkovsky Moscow Aviation Technology Institute, Russia

R. Llamasa-Villalba - Industrial University of Santander, Colombia

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H. Miyata - Shiga University, Japan

A. Molinari - University of Trento, Italy

A. Moshaiov - Tel-Aviv University, Israel

D. Mukherjee - Bowling Green State University, USA

G.D. Nag - National Informatics Centre, India

D. Nichols - University of Waikato, New Zealand

A. Ninck - Berne University of Applied Sciences, Switzerland

M. Llamas-Nistal - University of Vigo, Spain

C.E. Palau - Polytechnic University of Valencia, Spain

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P. Polsani - Satyam Computer Services Ltd., India

V. Pougatchev - University of Technology, Jamaica

E. Prasolova-Forland - Norwegian University of Science and Technology (NTNU), Norway

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M. Recchioni - Didagroup, Italy

E. Regentova - University of Nevada Las Vegas, USA

J. Rutkowski - Silesian University of Technology, Poland

D. Sampson - University of Piraeus, Greece

S. Sauer Sloan - Global Wireless Education Consortium, USA

L.B. Sheremetov - Mexican Petroleum Institute, Mexico

M.-A. Sicilia - University of Alcala, Spain

J. Smid - SKS Enterprises, USA

S. Tansley - Microsoft Research, USA

I. Tomek - Acadia University, Canada

P. Uys - Charles Sturt University, Australia

C.-C. Wu - National Taiwan Normal University, Taiwan

J. Yorke - University of Plymouth, UK

Z. Zhang - Microsoft Research, USA

PROGRAM OVERVIEW

Wednesday, October 4, 2006

- 07:00 – Registration
08:30 (Foyer)
- 08:30 – Welcome Address
09:00 (*Independencia Sur Room*)
- 09:00 Keynote Address –
“Technologies That Motivate
Learning”
(*Independencia Sur Room*)
- 10:00 – Coffee Break
10:30 (Foyer)
- 10:30 Session 1 – Studies on
Advanced Technology –
Based Teaching and
Learning I
(*Precursores B Room*)
- Session 2 – Advanced
Software and Hardware
Systems and Tools for
Technology – Based
Education I
(*Precursores C Room*)
- 14:00 Session 3 – Studies on
Advanced Technology –
Based Teaching and
Learning II
(*Precursores B Room*)
- Session 4 – Advanced
Software and Hardware
Systems and Tools for
Technology – Based
Education II
(*Precursores C Room*)
- 15:30 – Coffee Break
16:00 (Foyer)
- 16:00 Sessions 3 and 4 Continued
- 18:30 International Competition of
Software Systems and Tools
for Technology-based
Education
(*Precursores C Room*)

Thursday, October 5, 2006

- 08:30 Tutorial Presentation –
“Classroom Uses of
Handheld Computers”
(*Independencia Sur Room*)
- 10:00 – Coffee Break
10:30 (Foyer)
- 10:30 Tutorial Presentation
Continued
- 14:00 Invited Speaker – “ICT-
Based Education: Caribbean
Region Perspectives”
(*Independencia Sur Room*)
- 15:30 – Coffee Break
16:00 (Foyer)
- 16:00 Session 5 – Mobile Learning
(*Precursores B Room*)
- Session 6 – Curriculum and
Content Development Issues
(*Precursores C Room*)

19:30 – Dinner Banquet
23:00 (*Independencia Norte Room*)

10:30 Sessions 7 and 8 Continued

Friday, October 6, 2006

09:00 Session 7 – Special Session
(*Precursores B Room*)

Session 8 – Blended,
Distance, Open and Adult
Education
(*Precursores C Room*)

10:00 – Coffee Break
10:30 (*Foyer*)

14:00 Session 9 – Virtual Reality
and Virtual Scientific Labs
(*Precursores B Room*)

Session 10 – Quality,
Evaluation and Assessment
Issues of Technology – Based
Education
(*Precursores C Room*)

15:30 – Coffee Break
16:00 (*Foyer*)

16:00 Sessions 9 and 10 Continued

PLEASE NOTE

- ❖ Paper presentations are 15 minutes in length with an additional 5 minutes for questions.
- ❖ Report to your Session Chair 15 minutes before the session is scheduled to begin.
- ❖ Presentations should be loaded onto the presentation laptop in the appropriate room prior to your session.
- ❖ End times of sessions vary depending on the number of papers scheduled.

WEDNESDAY, OCTOBER 4, 2006

07:00 – 08:30 REGISTRATION

IASTED Staff: L. Redeker (Canada)

Location: Foyer

08:30 – 09:00 WELCOME ADDRESS

Presenter: V. Uskov (USA)

Room: Independencia Sur

09:00 – KEYNOTE ADDRESS - “TECHNOLOGIES THAT MOTIVATE LEARNING”

*Presenters: E. Soloway and C. Norris
(USA)*

Room: Independencia Sur

While we can dicker about the details, at its core, school is about helping children to be successful, and helping children to learn and to achieve. In order to learn, children need to be motivated and engaged. For the “kids these days,” what deeply engages them is being continuously connected – to each other, to their music, to their games, to digital things that they create. Outside of school, such connections are facilitated by technology – cell phones, MP3 players, digital cameras, etc., which they use for text messaging, for remixing songs to create their own personal ringtones, and for expressing themselves through multiple media. If we think that

the kids these days are going to find paper-and-pencil assignments motivating, we are fooling ourselves. Fortunately, there are powerful, but low-cost, handheld, mobile, multimedia computers that schools can provide for children to use on a continuous basis that children do find motivating. Most importantly, teachers can use their existing instructional strategies with these devices; with experience, we find teachers adapting their strategies to better leverage the affordances of these task-appropriate, non-overwhelming devices. In our presentation we will describe classrooms – urban, suburban, rural – all around America where children and teachers are using these truly personal, palm-sized computers to pursue state-mandated curricula to learn and achieve.

Dr. Elliot Soloway and his colleagues in the Center for Highly Interactive Computing in Education (Hi-CE) – now composed of over 60 undergraduate and graduate students – have been exploring the ways in which computing and communications technologies can be the catalyst in bringing a constructivist, project-based pedagogy to science classrooms. The Hi-CE group is developing science curricula that embeds technology into the everyday

experiences of students and teachers. The Hi-CE group is also developing professional development workshops and materials that support teachers in carrying out these project-based, technology-pervasive curricula in their classrooms.

Dr. Cathleen Norris is a Professor in the Department of Technology and Cognition, College of Education at the University of North Texas, in Denton, Texas. Dr. Norris' efforts in research, teaching and service all have a common focus: integrate learning technologies more effectively into classrooms, in K-12 as well as post-secondary education. Cathie is a Past President of the International Society for Technology in Education (ISTE), the leading international organization for technology-minded educators. From 1991 to 2001, she was the President of the National Educational Computing Association (NECA) that organized the premier conference, NECC, on technology in K-12.

10:00 – 10:30 COFFEE BREAK

Location: Foyer

10:30 – SESSION 1 – STUDIES ON ADVANCED TECHNOLOGY- BASED TEACHING AND LEARNING I

Chairs: A. Bernuy Alva (Peru) and C. Miller (USA)

Room: Precursores B

528-102

The Challenge of eLearning Environments

R. Beheshti, E. Dado, and H. de Ridder (The Netherlands)

528-098

There is More than One Correct Solution: From Simple Questions to Explorative Simulations with Progress Maps

S. Rizzotti and H. Burkhart (Switzerland)

528-038

Demystifying Aesthetics: An Exploration of Emotional Design

C. Miller, G. Veletsianos, and S. Hooper (USA)

528-063

Monitoring e-Learning: Concepts, Scenarios, Architecture and Conceptual Model

M.F. Rodrigues Vaz, G. Bressan, and W. Ruggiero (Brazil)

528-123

Strategies for Productivity and Efficiency in Design and Use of Electronic Thesis and Dissertations

A. Bernuy Alva, R. Rodríguez Ulloa, M. Fernández Azuela, and L. Joyanes Aguilar (Peru)

528-120

A Comparative Study of Online and Traditional Undergraduate Business Law Courses

D.J. Shelley, L.B. Swartz, and M.T. Cole (USA)

528-805

Ludic Epistemology? Knowledge-Representation in Game-based Learning

S. de Castell and J. Jenson (Canada)

**10:30 - SESSION 2 -
ADVANCED SOFTWARE AND
HARDWARE SYSTEMS AND
TOOLS FOR
TECHNOLOGY-BASED
EDUCATION I**

Chairs: R. Aust (USA) and

H. D. Wuttke (Germany)

Room: Precursores C

528-054

The Development and Validation of a Modular e-Book Authoring System

E. Meyen and R. Aust (USA)

528-022

Learning Management System of Tidia-AE Project

L.A.M. Zaina, G. Bressan, and W.V. Ruggiero (Brazil)

528-105

From e-Learning Standards and F/OSS to Adaptive Learning Systems

E. Õunapuu (Estonia)

528-109

An Applet-based Approach to Reusable Learning Objects

H. D. Wuttke (Germany)

528-085

Cyberl@b: Technology Enriched English Language Learning in Costa Rica

A.G. Quesada P. (Costa Rica) and R.J. Aust (USA)

528-037

Educational Software for Force and Roughness Prediction in Turning Operations based on Neural Networks

S.L.R. Almeida, M. Stipkovic, and O. Novaski (Brazil)

528-128

PDA Sign Language Editor

B.M. Vargas, M. da S. Antunes, P.R.G. Luzzardi, A.C. da R. Costa, G.D. Duarte, and R.A. Cava (Brazil)

528-052

The Impact of Procedural Generation and *Modding* on the Participatory Design of Educational Video Games
A.V. Moshirnia (USA)

14:00 - SESSION 3 - STUDIES ON ADVANCED TECHNOLOGY-BASED TEACHING AND LEARNING II

Chairs: R. Eggen and P. Serdyukov (USA)
Room: Precursores B

528-020

Innovative Approaches in Technology-based Education: Accelerated and Intensive Learning
P. Serdyukov and N. Serdyukova (USA)

528-017

Parallelism and Distributed Computing in Undergraduate Education
M. Eggen and R. Eggen (USA)

528-065

The ICT in Latin America: Some Experiences, Problems and Limitations
J.L. Ramirez-Romero and N. Y Galeana (Mexico)

528-013

Practical Suggestions for Addressing Learning Styles in Computer-based Simulations
P. Fenrich (Canada)

528-107

Innovation in Education for Construction IT in the Advent of Globalization
F. Farinha, R. Jardim-Gonçalves, and D. Rebelj (Portugal)

528-029

Applying the Pedagogical Illustrative Method using Animation
D. Vanecek (Czech Republic)

528-058

Initializing Student Models using Dempster-Shafer Theory
S. Sonamthiang, K. Naruedomkul (Thailand), and N. Cercone (Canada)

528-097

Studying Students' Difficulties in an OOP Course based on BlueJ
S. Xinogalos, M. Sartatzemi, and V. Dagdilelis (Greece)

528-806

"You're Going to Die": Gender, Performance and Digital Gameplay
J. Jenson and S. de Castell (Canada)

**14:00 - SESSION 4 -
ADVANCED SOFTWARE AND
HARDWARE SYSTEMS AND
TOOLS FOR
TECHNOLOGY-BASED
EDUCATION II**

*Chairs: S. Ruecker (Canada) and
J.-P. Gervol (France)
Room: Precursores C*

528-073
From Social Algorithm to
Pedagogical Application: Some
Implications for Educational
Software
D. Pratt (South Africa)

528-075
Teaching Children with Down
Syndrome Pronunciations using
Speech Recognition
*S. Al Shamsi, H. Talhami, and
K. Shaalan (UAE)*

528-027
A Microprocessor IP for Web-
based Digital Electronic Design
and Assembly Language Practical
Activities
*J.-P. Gervol, A. Labbe, Y. Le Ru, and
G. Sagot (France)*

528-008
Saving Bandwidth for RSS Feeds
by using ASN.1 in e-Learning
Applications
*R. De Sutter and R. Van de Walle
(Belgium)*

528-034
An Internet Social Networking
Tool for Education
*K.O. Chow, K.Y.K. Fan,
A.Y.K. Chan, and S.K.S. Cheung
(P. R. China)*

528-023
Defining and Supporting
Personalized Learning Processes
*I.T. Hawryszkiewicz and W. Pan
(Australia)*

528-079
Watch My Moves: From Digital
Plays to the Digital Playbook
*S. Ruecker, A. Sapp, B. Roessler,
M. Radzikowska, S. Sinclair,
K. Uszkalo, and S. Gabriele (Canada)*

528-802
An Innovative Approach to
Teaching EMI using Virtual
Instrumentation Techniques
*Ö. Göl, S. Giaccio, and A. Nafalski
(Australia)*

15:30 - 16:00 COFFEE BREAK
Location: Foyer

**16:00 SESSIONS 3 AND 4
CONTINUED**

**18:30 - INTERNATIONAL
COMPETITION OF SOFTWARE
SYSTEMS AND TOOLS FOR
TECHNOLOGY-BASED
EDUCATION**

*Chairs: J.-P. Gerval (France),
V. Uskov and J. Karet (USA)*

Room: Precursores C

A List of the International
Competition Referees:

Dr. J.-P.Gerval (*France*) – Chair

Dr. V. Uskov (*USA*) - Co-Chair

Dr. H.-D. Wuttke (*Germany*)

Dr. A. Ivannikov (*Russia*)

Dr. A. Bernuy (*Peru*)

Dr. K.O.Chow (*Hong-Kong*)

Dr. L. Anido (*France*)

Prof. V. Pougatchev (*Jamaica*)

Dr. J. Karet (*USA*) - Co-Chair

Dr. W. Tarng (*Taiwan*)

Dr. K. Henke (*Germany*)

Dr. J. Rutkowski (*Poland*)

**THURSDAY, OCTOBER 5,
2006**

**08:30 - TUTORIAL
PRESENTATION -
“CLASSROOM USES OF
HANDHELD COMPUTERS”**

*Presenters: C. Norris and
E. Soloway (USA)*

Room: Independencia Sur

10:00 - 10:30 COFFEE BREAK

Location: Foyer

**10:30 TUTORIAL
PRESENTATION CONTINUED**

**14:00 – INVITED SPEAKER -
“ICT-BASED EDUCATION:
CARIBBEAN REGION
PERSPECTIVES”**

Presenter: V. Pougatchev (Jamaica)

Room: Independencia Sur

In 2004 the United Nations Educational, Scientific and Cultural Organization (UNESCO) launched the international project entitled Caribbean Regional Standards for Information Communication Technologies in Tertiary Education Institutions in several countries of the Caribbean Region including Jamaica, Barbados, Trinidad & Tobago, St. Lucia and Surinam. This UNESCO project covers various aspects of Primary, Secondary,

Tertiary Education and Vocational Training in designated countries and is aligned with goals, objectives and main activities of the Caribbean Community (CARICOM), the Caribbean Area Network for Quality Assurance in Tertiary Education (CANQUATE), Caribbean Examination Council (CXC), the Caribbean Knowledge and Learning Network (CKLN) and Caribbean Association of National Training Agencies (CANTA).

The presentation will cover in details 1) project goals, objectives, and main approaches, 2) collaboration of project team members -- ministries of education, colleges, schools, universities, vocational training centers, 3) specific features and characteristics of local schools, colleges and universities and vocational centers, 4) a proposed methodology for this study aimed on development of standards for ICT-based education in the Caribbean region, 5) a summary of project team activities and tasks, 6) project main results, findings and outcomes, 7) a list of tangible and intangible benefits of ICT-based education that are specific for the Caribbean region, and 8) project recommendation and conclusions aimed on significant improvement of ICT-based education in the Caribbean region. Project framework, findings and outcomes,

conclusions and recommendations could be of interest for developers of ICT-based education in developing countries.

Prof. Valeri Pougatchev has been working in the area of Information and Communication Technology (ICT) for about 25 years in Russia, Jamaica, and the United States (including Silicon Valley area in California and Massachusetts). His other research areas include but are not limited to software engineering of enterprise-wide systems, design and development of assessment and evaluations systems, and information science, specifically compression of information using interpolation polynomials and wavelets. He is a recipient of The Best E-Commerce System - Caribbean Region award at the Microsoft International Conference in California, USA, 2000. He is an author of two textbooks on ICT applications in education. From 2004 Prof. Pougatchev serves as a consultant of the UNESCO on applications of ICT in Tertiary Education and Vocational Training (TVET) for the Caribbean Region and as a co-principal investigator of the UNESCO project on Standards for ICT-Based Education in the Caribbean Region.

15:30 – 16:00 COFFEE BREAK

Location: Foyer

16:00 – SESSION 5 – MOBILE LEARNING

Chairs: R. Davidrajuh (Norway) and M. Milrad (Sweden)

Room: Precursores B

528-051

Standardization and Mobile Learning. An Initial Proposal to Complete the Learner Information
F. Mikic and L. Anido (Spain)

528-069

Designing and Implementing Ubiquitous Learning Activities Supported by Mobile and Positioning Technologies
A. Kurti, M. Milrad, F. Alserin, and J. Gustafsson (Sweden)

528-053

Mobile Multimedia Communications for Distance Education: Possible Use in Croatian Schools
M. Suknaic, B. Zovko-Cihlar, M. Grgic, and A. Dodig (Croatia)

528-024

Effects of Using Digital Contents Designed for PDA as a Teaching Aid in an Observational Learning of Planktons for Fieldworks on a Ship
H. Miyata and M. Ishigami (Japan)

528-080

Designing an Interactive Bluetooth-based Classroom Tool
R. Davidrajuh (Norway)

16:00 – SESSION 6 – CURRICULUM AND CONTENT DEVELOPMENT ISSUES

Chairs: A. Dollár (USA) and J.J. Neto (Brazil)

Room: Precursores C

528-046

Web-based Statics Course
A. Dollár and P.S. Steif (USA)

528-059

A Service-Oriented Portal for Software Engineering Education
S. Ramakrishnan (Australia)

528-082

A Pedagogical Environment to Teach Formal Languages, Automata and Compiler Construction
R.L. de Azevedo da Rocha, D.P. Shibata, and J.J. Neto (Brazil)

528-110

Using the Clustering Technique in the Development of Learning Objects Digital Libraries
C.B. Baruque and L. A. Rivera (Brazil)

**19:30 – 23:00 DINNER
BANQUET**

Location: Independencia Norte

**FRIDAY, OCTOBER 6,
2006**

**09:00 – SESSION 7 – DESIGN
AND EVALUATION OF
COMPUTER-BASED
LEARNING ENVIRONMENTS**

*Chairs: E. Prasolova-Førland
(Norway) and H. Mandl (Germany)*

Room: Precursores B

528-811

Collaborative Learning in Virtual
Seminars – Evaluation Data and
Process-Product-Analyses

*B. Kopp, K. Schnurer, and
H. Mandl (Germany)*

528-812

Evaluating Interpersonal
Knowledge in Virtual Seminars
O. Diekamp (Germany)

528-813

Instructional Design for
Hyperaudio Learning with
Cellular Phones

J. Zumbach (Austria)

528-814

Integrating and Conveying
Knowledge on How to Design
Multimedia Learning
Environments – The
Development of an eLearning
Design Assistant

H.M. Niegemann (Germany)

528-800

A Collaborative University-
Enterprise Project for Training of
Professionals in Industrial
Processes

*P. Mariño, M.Á. Domínguez,
S. Otero, and M. Merino (Spain)*

528-118

Creative Curriculum
Visualization in a 3D CVE
E. Prasolova-Førland (Norway)

**09:00 – SESSION 8 – BLENDED,
DISTANCE, OPEN AND
ADULT EDUCATION**

*Chairs: A. Mitra and
O. A. Yakimenko (USA)*

Room: Precursores C

528-025

A Conceptual Approach to Open
Learning Environments via User
Stories

*D. Rutkauskiene, A. Volungeviciene,
G. Rutkauskas (Lithuania), and
B. Kieslinger (Austria)*

528-007

Certified Distance Learning
Program on Classical/Modern
Navigation and Control
O. A. Yakimenko (USA)

528-114

Understanding Dynamic and
Collaborative Situation: A Context
based Approach
*C. Bossard, R. B nard, and
J. Tisseau (France)*

528-042

Developing a Profile of the Heavy
User of Instant Messaging Among
American College Students
A. Mitra (USA)

10:00 – 10:30 COFFEE BREAK

Location: Foyer

10:30 SESSIONS 7 AND 8 CONTINUED

14:00 – SESSION 9 – VIRTUAL REALITY AND VIRTUAL SCIENTIFIC LABS

*Chairs: M.E. Haque (USA) and
J. Karet (USA)*

Room: Precursores B

528-048

Real Laboratory in Web-based
Applications: Remote
Experiments with a Physical
Pendulum

*M.A. Gonzalez, J. Adiego, L.F. Sanz,
O. Mart nez, R. Garc a, C. Hermo,
and M. Herguedas (Spain)*

528-012

Virtual Reality: An Analytical
Concept Visualization Technique
for Architectural Engineering

*M.E. Haque and S.S. Mehtalia
(USA)*

528-010

Situation Awareness in Virtual
Environments: A Theoretical
Model and Investigation with
Different Interface Designs
U. Laptaned (Thailand)

528-035

Integration of Computer-based
Electronics Laboratory into a
Control Systems Course in
Electronics Technology
J.R. Garcia and M. Kim (USA)

528-113

Student Centred Learning in
Remote Laboratory NetLab

J. Machotka and Z. Nedic (Australia)

528-026
A Robot Off-Line Programming
Platform Dedicated to the
Training in Informatics and
Digital Electronics
*J.-P. Gervat, A. Labbe, Y. Le Ru, and
G. Sagot (France)*

528-062
Robots and Education: A
Framework for Development
*N.C. Bridgeman and E. Bridgeman
(New Zealand)*

528-066
The Application of Virtual Reality
in Astronomy Education
W. Tarng and H.-H. Liou (Taiwan)

528-089
The Use of Advanced Simulator
Technology in Aviation Education
S. Thatcher (Australia)

**14:00 - SESSION 10 - QUALITY,
EVALUATION AND
ASSESSMENT ISSUES OF
TECHNOLOGY-BASED
EDUCATION**

*Chairs: K. Henke (Germany)
and R.A. Hill (USA)
Room: Precursores C*

528-028
Web-based Test, Examination and
Assessment System
K. Henke (Germany)

528-019
Instructional Quality Assurance in
e-Learning: Foundation,
Implementation, and
Improvement
R.A. Hill and P. Serdyukov (USA)

528-005
Development and Evaluation of
Computer Assisted Exam - Circuit
Theory Example
*J. Rutkowski, K. Moscinska, and
L. Chruszczyk (Poland)*

528-101
Computer Simulation
Performance Testing:
Implementation Issues
D.J. Pucel and L.D. Anderson (USA)

528-032
An Object-Oriented Approach in
Development of On-Line
Evaluation Systems for
Educational Institutions
Valeri Pougatchev (Jamaica)

528-044
Adapting the Learning Process in
Distance Learning Systems based
on Evaluating the Speed of
Student's Perception and
Comprehensibility
P. Fedoruk (Ukraine)

528-072
The Role of Portal Technologies in
Corporate Lifelong Learning
System
*V. Pantović, M. Savković, and
D. Starcević (Serbia)*

528-050

Three Dimensions of the Online
Course Evaluation Instrument in
Postsecondary Education

*S. Seok, E. Meyen, R. Aust,
M. Fitzpatrick, and B. Newberry
(USA)*

**IASTED would like to thank you
for attending CATE 2006. Your
participation helped make this
international event a success.**

528-116

On-Line Quizzes with
Randomized Parameters

*Z. Nedic, J. Machotka, and
A. Nafalski (Australia)*

15:30 - 16:00 COFFEE BREAK

Location: Foyer

**16:00 SESSIONS 9 AND 10
CONTINUED**