

CW 2011 - Conference Program

Monday October 3, 2011

18:00-21:00 Registration Open – PDC Lobby, Banff Centre

Tuesday October 4th, 2011

8:00-16:00 CW Registration Open - PDC 104, Banff Centre

9:00-9:15 CW 2011 Official Opening – PDC 103, Main Plenary

Session 1 Keynote - PDC 103, Main Plenary

9:15-10:15 **Crossing the Line: Cyberspace Terrorism and Real-World Targets in Fact and Fiction**
Prof. Larry Constantine, IDSA, Portugal

10:15-10:45 *Coffee Break, PDC 104*

Parallel Session PDC103

Parallel Session PDC102

Session 2A Security in Virtual Worlds

Session 2B Models for Virtual Worlds 1

10:45-11:05 Evaluation of Face Recognition Algorithms on Avatar Face Datasets (FP)
Roman Yampolskiy, Gyuchoon Cho, Richard Rosenthal and Marina Gavrilova

An Example of a Charge Calculation System using the Numerical Value and Exponential Calculation of the Cellular Data System (FP)
Toshio Kodama, Toshiyasu L. Kunii and Yoichi Seki

11:05-11:25 Using Image Morphing for Memory-Efficient Impostor Rendering on GPU (FP)
Kamer Ali Yuksel, Alp Yucebilgin, Selim Balcisoy and Aytul Ercil

An Open Modular Architecture for Effective Integration of Virtual Worlds in the Web (FP)
Sergiy Byelozyorov, Vincent Pegoraro and Philipp Slusallek

11:25-11:45 An Entropy and Volume-based Approach for Identifying Malicious Activities in Honeynet Traffic (FP) *Mohammed H. Sqalli, Syed Naeem Firdous, Zubair Baig and Farag Azzedin*

The Development of Core Logic for an Estimate System using the Cellular Data System (SP)
Toshio Kodama, Toshiyasu L. Kunii and Yoichi Seki

11:45-13:30 *Lunch Dining Centre*

Session 3 Tutorial - PDC 103, Main Plenary

13:30-14:15 **Cyberworld Architectural Design and Applications**
Prof. Toshiyasu L. Kunii, U of Tokyo, Japan

Session 4A Biometric Security and Data Mining

Session 4B Sensor-based Methods

14:15-14:35 A novel multi-modal biometric architecture for high-dimensional features (FP)
Kushan Ahmadian and Marina Gavrilova

A Sensor Based 3D Annotation Authoring Tool for Outdoor Field Applications (FP)
Mustafa Tolga Eren and Selim Balcisoy

14:35-14:55 Techniques and methods for "smart" processing of information flows in applications of information and telecommunication technologies: the use of expert systems for data mining (FP) *Anatoly Lezhenko, Ilya Kuznetsov and Sergey Kuznetsov*

Enhancement of Stage Performances by Projecting CG Animation and Control of Images with Sensors (FP)
Masahito Shiba, Asako Soga and Jonah Salz

14:55-15:15 Face Detection using Skin Color Recursive Clustering and Recognition using Multilinear PCA (FP)
Padma Polash Paul, Md. Maruf Monwar and Marina Gavrilova

Evaluation of a Technique for Collision and Object Detection with the Z-buffer in Cyber Space (FP) *Hidemi Yamachi, Yasuyuki Souma, Yasushi Kambayashi, Yasuhiro Tsujimura and Tomoaki Iida*

15:15-15:45 *Coffee Break PDC 104*

Session 5A Haptic Interfaces

Session 5B Models for Virtual Worlds 2

15:45-16:05 Comparison of Force and Vibrotactile Feedback with Direct Stimulation for Texture Recognition (FP) *Jonatan Martinez, Diego Martinez, José P. Molina, Pascual González and Arturo Garcia*

Building a Collaborative Virtual Environment: A Programming Language Codesign Approach (FP) *Jafar Al-Gharaibeh, Clinton Jeffery and Hani Bani-Salameh*

16:05-16:25 Haptic Rendering of Virtual Hand Moving Object (FP)
Wenzhen Yang, Wenhua Chen

ESimp: Error-Controllable Simplification with Feature Preservation for Surface Reconstruction (FP) *Mingqiang Wei, Yichen Li, Jianhuang Wu and Mingyong Pang*

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16:25-16:40	Function-based Haptic Interaction in Cyberworlds (SP) <i>Lei Wei and Alexei Sourin</i>	An Information-Based Perception Model for Agent-Based Crowd and Egress Simulation (FP) <i>Vaisagh Viswanathan T and Michael Lees</i>
17:30-18:30	<i>Guided Walking Tour (starts at PDC Lobby)</i>	
18:30-20:00	<i>Welcome Reception PDC 301</i>	

Wednesday October 5th, 2011		
8:00-14:00	CW Registration - PDC 104, Banff Centre	
	Session 6 Keynote - PDC 103, Main Plenary	
9:15-10:15	Non-traditional Modeling <i>Brian Wyvill, U Victoria, Canada</i>	
10:15-10:45	<i>Coffee Break PDC 104</i>	
	Parallel Session PDC103	Parallel Session PDC102
	Session 7A Virtual Environments	Session 7B Arts & Virtual Worlds 1 Chair: G. Mura
10:45-11:05	The Use of Online Virtual Environments to Assess the Appeal of Interactive Elements within Buildings (FP) <i>Mohamad Nadim Adi and David Roberts</i>	The Open Metaplastic Platform for Digital Art (FP) <i>Gianluca Mura</i>
11:05-11:25	Visualized Deformation of Joinery to Understand Jointing Process by Homotopy Theory and Attaching Maps (FP) <i>Kenji Ohmori and Tosiyasu L. Kunii</i>	Transmedia storytelling and online representations -issues of trust on the internet (FP) <i>Andreas Zingerle and Linda Kronman</i>
11:25-11:45	Sina Microblog: An Information-driven Online Social Network (FP) <i>Zhengbiao Guo, Zhitang Li and Hao Tu</i>	The Undiscovered Country, The Art of Pictorial 3-D Stereo Animation (FP) <i>Ina Conradi and Yong Xiang Ivan Yew</i>
11:45-13:30	<i>Lunch Dining Centre</i>	
	Session 8 Tutorial - PDC 103, Main Plenary	
13:30-14:10	Cyber-Physical and Networked Sensor Systems: Challenges and Opportunities <i>Sajal K. Das, U of Texas at Arlington, USA</i>	
	Session 9A Algorithms and Optimization 1	Session 9B Arts & Virtual Worlds 2 Chair: G. Mura
14:10-14:30	Optimization of Inverse Snyder Polyhedral Projection (FP) <i>Erika Harrison, Ali Mahdavi-Amiri and Faramarz Samavati</i>	Emergent Imagination: A developing framework for the analysis of artworks in virtual worlds (FP) <i>Denise Doyle</i>
14:30-14:45	Visual 3d perception of the ski course and visibility factors at virtual space (SP) <i>Vladimir Aleshin, Valery Afanasiev, Alexander Bobkov, Stanislav Klimenko, Vitaly Kuliev and Dmitry Novgorodtsev</i>	Of Bikes and Virtual Worlds (SP) <i>Everardo Reyes-García, Genesaret Miranda-Correa, Jessai Maya González, Mariano Romero-Texis, Luis César Osorio-Fernández, Alejandro Derbez-Gómez, Gustavo Torres-Altamirano, Isaac Rudomin and Daniel Rivera</i>
14:45-15:00	Continuous control of style trough linear interpolation in Hidden Markov Model based stylistic walk synthesis (SP) <i>Joëlle Tilmanne and Thierry Dutoit</i>	Crossing Over: Oscillations Between the Virtual and the Real (SP) <i>Dew Harrison</i>
15:00-15:15	Face It: 3D facial reconstruction from a single 2D image for games and simulations (SP) <i>J. Steven Kirtzic and Ovidiu Daescu</i>	Avatar Impotence: On 'User Will,' 'Avatar Agency,' and 'System Control' in Second Life (SP) <i>Katherine Behar, Ben Chang and Silvia Ruzanka</i>
15:15-15:45	<i>Coffee Break PDC 104</i>	

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	Session 10A Algorithms and Optimization 2	Session 10B Applications of Cyberworlds
15:45-16:00	Face Lift Surgery for Reconstructed Virtual Humans (SP) <i>Rafael Pagés, Sergio Arnaldo and Francisco Morán</i>	One and Three Virtual Chairs: Kosuth in Second Life (SP) <i>Alejandro Schianchi (Arts & Virtual Worlds)</i>
16:00-16:20	Shoulder Point Detection: A Fast Geometric Data Fitting Algorithm (FP) <i>Hadi Mansourifar, Mohammad Mahdi Dehshibi and Azam Bastanfard</i>	Folkways in Wonderland: a cyberworld laboratory for ethnomusicology (FP) <i>Rasika Ranaweera, Michael Frishkopf, Michael Cohen</i>
16:20-16:40	Post-Biological Hypersurfacing: Embodied Mixed Reality Data Transfer (SP) <i>Julian Staddon</i>	Let the Game do the Talking: The influence of explicitness and game behavior on comprehension in an educational computer game (FP) <i>Erwin Bergervoet, Frans Van Der Sluis, Betsy Van Dijk and Anton Nijholt</i>
16:40-16:55		Designing e-learning in virtual worlds for Apprenticeship students in Canada (SP) <i>Martha Burkle (oral presentation)</i>
18:00-19:00	<i>Dinner Reception Kinnear Centre, Husky Great Hall</i>	
19:00-22:00	<i>CW 2011 Gala Dinner Kinnear Centre, Husky Great Hall</i>	

Thursday, October 6th, 2011		
	Session 11 Keynote - PDC 103, Main Plenary	
9:15-10:15	EEG-enabled Personalized Digital Experience in Co-Space <i>Olga Sourina, NTU, Singapore</i>	
10:15-10:45	<i>Coffee Break PDC 104</i>	
	Session 12 Tutorial - PDC 103, Main Plenary	
10:45-11:30	Synthetic biometrics for training users of biometric and biomedical systems <i>Svetlana Yanushkevich, U of Calgary, Canada</i>	
11:30-12:00	<i>Nutri Break PDC 104</i>	
12:00-1:00	Check-out	
13:30-19:00	<i>Banff and Lake Louise Bus Tour</i>	