Cyberworlds 2014

Schedule-At-A-Glance

October 5th, Sunday (Day 0)	
17:30 – 18:30	**Guided Visit of the Royal Palace** (Royal Palace of La Magdalena)
18:30 – 20:00	**Welcome Reception & Cocktail** (Royal Palace of La Magdalena)

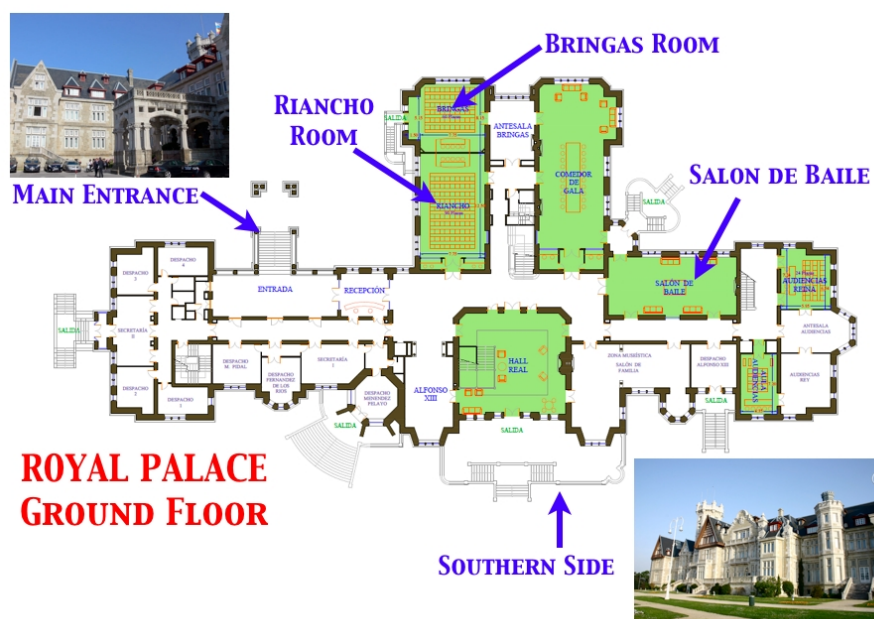| October 6th, Monday (Day 1)		
8:00 – 9:00	Registration Starts (Conference Desk)	
9:00 – 9:30	Opening Ceremony (Riancho Room)	
9:30 – 10:30	**Invited Talk 1** + Q&A *Professor Tomoyuki Nishita* (Riancho Room)	
10:30 – 11:00	Coffee Break (Salon de Baile)	
	Parallel Session I	
11:00 – 12:35	Session 1: Interaction (F4+S1) (Riancho Room)	Session 2: Arts I (F4+S1) (Bringas Room)
12:35 – 13:00	Poster Fast Forward & Announcements	
13:00 – 14:20	LUNCH	
	Parallel Session II	
14:20 – 16:00	Session 3: Multisensory (F5) (Riancho Room)	Session 4: BioSec I (F5) (Bringas Room)
16:00 – 16:30	Coffee Break (Salon de Baile)	
	Parallel Session III	
16:30 – 17:40	Session 5: Arts II (F2+S2) (Riancho Room)	Session 6a: BioSec II (F2) Session 6b: Cyberhumans I (F1) (Bringas Room)
19:30 – 22:30	**Gala Dinner** (Grand Casino of El Sardinero)	

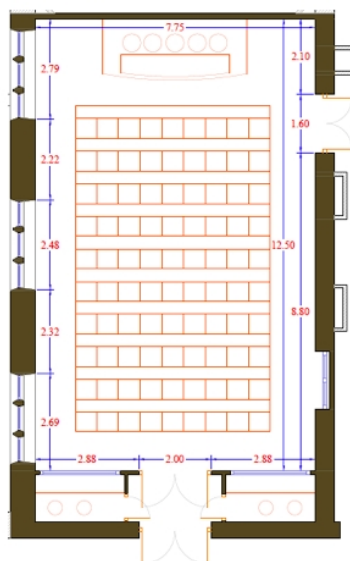F: Full papers (20 mins.), S: Short Papers (15 mins.)

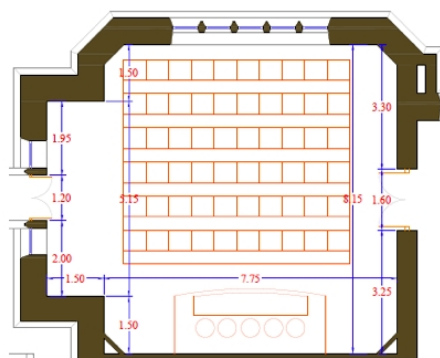| October 7th, Tuesday (Day 2)		
	Parallel Session IV	
9:00 – 10:40	Session 7: Shapes & Curves (F5) (Riancho Room)	Session 8: Cyberhumans II (F5) (Bringas Room)
10:40 – 11:10	Coffee Break (Salon de Baile)	
11:10 – 12:10	**Invited Talk 2** + Q&A *Professor Jian Jun Zhang*	
	Parallel Session V	
12:10 – 13:30	Session 9: Visualization (F4) (Riancho Room)	Session 10: Geometry & Maths (F4) (Bringas Room)
13:30 – 14:45	LUNCH	
15:00 – 21:00	**Conference Tour**	

F: Full papers (20 mins.), S: Short Papers (15 mins.)

October 8th, Wednesday (Day 3)		
	Parallel Session VI	
9:00 – 10:40	Session 11: Simulation & Space (F5) (Riancho Room)	Session 12: Cultural Heritage (F3) (Bringas Room)
10:40 – 11:10	Coffee Break (Salon de Baile)	
11:10 – 12:10	**Invited Talk 3** + Q&A *Professor Bill Seaman* (Riancho Room)	
12:10 – 14:15	Poster Session & Art Show & Exhibition Cocktail Lunch	
14:15 – 14:30	**Closing Ceremony** (Riancho Room)	

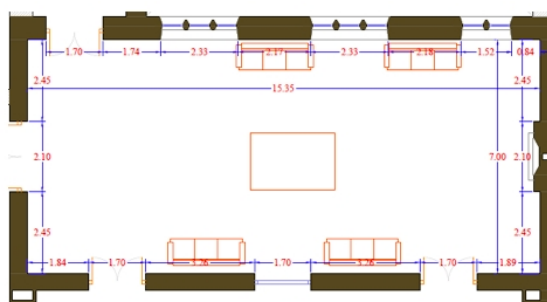F: Full papers (20 mins.), S: Short Papers (15 mins.)

ROYAL PALACE GROUND FLOOR

Riancho Room

Bringas Room

Salon de Baile

Detailed Conference Schedule

October 6, 2014 (Monday), 11:00-12:35

Parallel Session I

Session 1: Interaction (F4+S1)
Riancho Room

[F] Feasibility Study for Contemporary Dance E-Learning: An Interactive Creation Support System Using 3D Motion Data
Bin Umino, Asako Soga, and Motoko Hirayama

[F] GPU-Based Realtime Hand Gesture Interaction and Rendering for Volume Datasets Using Leap Motion
Junchen Shen, Yanlin Luo, Xingce Wang, Zhongke Wu, and Mingquan Zhou

[F] Exploring Stereoscopic Multi-user Interaction with Individual Views
Vincent Küszter, Guido Brunnett, and Daniel Pietschmann

[F] Sketch-Based Dance Choreography
Elahe R. Moghaddam, Javad Sadeghi, and Faramarz F. Samavati

[S] Feasibility Study on Free Hand Geometric Modelling Using Leap Motion in VRML/X3D
Jian Cui and Alexei Sourin

Session 2: Arts I (F4+S1)
Bringas Room

[F] New Opportunities for Artistic Practice in Virtual Worlds
Denise Doyle

[F] Creative Approaches to Exploring the Interstice between the Virtual and the Real
Dew Harrison

[F] Liberated Formatization
Ulrich Gehmann, Marco Zampella, and Matthias Wölfel

[F] How to Obtain Passwords of Online Scammers by Using Social Engineering Methods
Andreas Zingerle

[S] Wanderlost
Michael Johansson

Session 3: Multisensory (F5)
Riancho Room

[F] Haptic-Based Serious Games
Xiyuan Hou, Olga Sourina, Igor Kirillov, and Stanislav Klimenko

[F] Multisensory Experience with Images
Kan Chen, Xingzi Zhang, Shahzad Rasool, Henry Johan, and Alexei Sourin

[F] Stability of Features in Real-Time EEG-based Emotion Recognition Algorithm
Zirui Lan, Olga Sourina, Lipo Wang, and Yisi Liu

[F] Weight and Size Discrimination with Vibrotactile Feedback
Jonatan Martínez, Arturo S. García, Miguel Oliver, José P. Molina, and Pascual González

[S] Neurofeedback Games to Improve Cognitive Abilities
Yisi Liu, Olga Sourina, and Xiyuan Hou

Session 4: BioSec I (F5)
Bringas Room

[F] A Concept of Social Behavioral Biometrics: Motivation, Current Developments, and Future Trends
Madeena Sultana, Padma Polash Paul, and Marina Gavrilova

[F] Multimodal Biometrics Using Cancelable Feature Fusion
Padma Polash Paul and Marina Gavrilova

[F] Human Identification Using Sensors Data Based on 3D Gait Area
Sajid Ali, Zhongke Wu, Mingquan Zhou, Guoguang Du, Xulong Li, and Fan Pengcheng

[F] Mining Social Behavioral Biometrics in Twitter
Madeena Sultana, Padma Polash Paul, and Marina Gavrilova

[F] The Effects of Gameplay on Leadership Behaviors: An Empirical Study on Leadership Behaviors and Roles in Multiplayer Online Battle Arena Games
Tinnawat Nuangjumnong

Session 5: Arts II (F2+S2)
Riancho Room

[F] Exploring the Use of a 3D Virtual Environment in Chinese Cultural Transmission
Yungang Wei, Xiaoye Tan, Xiaoran Qin, Xiaohang Yu, Bo Sun, and Xiaoming Zhu

[F] The Meta Plastic Techne: A Cyber Metadiscipline between Science-Art-Design
Gianluca Mura

[S] Folding Pattern: A Study about Perception
Cristina Ghetti and Emanuelle Mazza

[S] (Re) Building Proun #5A in the Metaverse
Elif Ayiter

Session 6a: BioSec II (F2)
Bringas Room

[F] A Novel Pose Tolerant Face Recognition Approach
Refik Samet, Ghulam Sakhi Shokouh, and Jianjun Li

[F] Biometrics-Based Secret Key Agreement by Public Discussion with RFID System
Marcus V.C. Rodrigues, Felipe M. Masculo, Francisco M. de Assis, and Bruno B. Albert

Session 6b: CyberHumans I (F1)
Bringas Room

[F] Motivation System for Virtual Creatures: Actions Driven by Needs
Selene Zamarripa, Daniel Madrigal, and Felix Ramos

October 7, 2014 (Tuesday), 9:00-10:40
Parallel Session IV

Session 7: Shapes & Curves (F5)
Riancho Room

[F] Procedural Playable Cave Systems Based on Voronoi Diagram and Delaunay Triangulation
Aitor Santamaría-Ibirika, Xabier Cantero, Sergio Huerta, Igor Santos, and Pablo G. Bringas

[F] Scale-Invariant Heat Kernel Mapping
Kang Wang, Zhongke Wu, Pengfei Xu, Junli Zhao, Taorui Jia, Wuyang Shui, Sajid Ali, and Mingquan Zhou

[F] Isometric Shape Matching Based on the Geodesic Structure and Minimum Cost Flow
Taorui Jia, Kang Wang, Zhongke Wu, Junli Zhao, Pengfei Xu, Cuiting Liu, and Mingquan Zhou

[F] Simulated Annealing Algorithm for Bezier Curve Approximation
Carlos Loucera, Akemi Gálvez, and Andrés Iglesias

[F] Applying Clonal Selection Theory to Data Fitting with Rational Bézier Curves
Akemi Gálvez, Andrés Iglesias, and Andreina Avila

Session 8: Cyberhumans II (F5)
Bringas Room

[F] Safe Navigation of Pedestrians in Social Groups in a Virtual Urban Environment
Francisco Arturo Rojas, Hyun Seung Yang, and Fernando M. Tarnogol

[F] User Avatar Association in Virtual Worlds
Aslan Kanamgotov, Lyzgeo Koshy, Marc Conrad, and Simant Prakoonwit

[F] A Study on Perceived Similarity between Photograph and Shape Exaggerated Caricature
Jiayi Xu, Wei Yang, Xiaoyang Mao, Masahiro Toyoura, and Xiaogang Jin

[F] Automatic Generation of Skeleton Animation from 3D Human Mesh Model
Abdul Razzaq, Zhongke Wu, Mingquan Zhou, Sajid Ali, and Khalid Iqbal

[F] Example-Based Automatic Caricature Generation
Wei Yang, Kouki Tajima, Jiayi Xu, Masahiro Toyoura, and Xiaoyang Mao

October 7, 2014 (Tuesday), 12:10-13:30

Parallel Session V

Session 9: Visualization (F4)
Riancho Room

[F] Multilevel Focus+Context Visualization Using Balanced Multiresolution
Mahmudul Hasan, Faramarz F. Samavati, and Christian Jacob

[F] Optimizing and Visualizing Fire Dispatcher Activity
Sergey Mescherin, Igor Kirillov, and Stanislav Klimenko

[F] Real-Time Animated Visualization of Massive Air-Traffic Trajectories
Stefan Buschmann, Matthias Trapp, and Jürgen Döllner

[F] Interactive Visualization of Energy System
Haleh Alemasoom, Faramarz F. Samavati, John Brosz, and David Layzell

Session 10: Geomety & Maths (F4)
Bringas Room

[F] Constructive Roof Geometry
Johannes Edelsbrunner, Ulrich Krispel, Sven Havemann, Alexei Sourin, and Dieter W. Fellner

[F] Functorial Classification of Political Groups in the Meiji Restoration
Kenji Ohmori and Toshiyasu L. Kunii

[F] Clay Flower Creation Based on Homotopy Type Theory
Kenji Ohmori and Toshiyasu L. Kunii

[F] Molecular Geometry and BULL!
Youngsong Cho, Jae-Kwan Kim, Joonghyun Ryu, Mokwon Lee, Jehyun Cha, Chanyoung Song, and Deok-Soo Kim

October 8, 2014 (Wednesday), 9:00-10:40

Parallel Session VI

Session 11: Simulation & Space (F5)
Riancho Room

[F] Waterfall Simulation by Using a Particle and Grid-Based Hybrid Approach
Nobuhiko Mukai, Yasuomi Sakai, and Youngha Chang

[F] Image-Based Virtual Fitting System with Garment Image Reshaping
Hiroki Yamada, Masaki Hirose, Yoshihiro Kanamori, Jun Mitani, and Yukio Fukui

[F] Minimizing Collision among Social Groups in Wide-Open Spaces
Francisco Arturo Rojas and Hyun Seung Yang

[F] Interacting with Ads in Hybrid Urban Space
Matthias Wölfel

[F] Comparative Survey of Indoor Positioning Technologies, Techniques, and Algorithms
Mai A. Al-Ammar, Suheer Alhadhrami, Abdulmalik Al-Salman, Abdulrahman Alarifi, Hend S. Al-Khalifa, Ahmad Alnafessah, and Mansour Alsaleh

Session 12: Cultural Heritage (F3)
Bringas Room

[F] Crowd-Sourced Digitisation of Cultural Heritage Assets
Helen C. Miles, Andrew T. Wilson, Frederic Labrosse, Bernard Tiddeman, Seren Griffiths, Ben Edwards, Katharina Moller, Raimund Karl, and Jonathan C. Roberts

[F] Hybridization of Convergent Photogrammetry, Computer Vision, and Artificial Intelligence for Digital Documentation of Cultural Heritage - A Case Study: The Magdalena Palace
Oscar Cosido, Andrés Iglesias, Akemi Gálvez, Raffaele Catuogno, Massimiliano Campi, Leticia Terán, and Esteban Sainz

[F] A New Virtual Museum Equipped with Automatic Video Content Generator
Masaki Hayashi, Steven Bachelder, Masayuki Nakajima, and Akihiko Iguchi

Poster Session
(Salón de Baile)

Virtual Human Behavioural Profile Extraction Using Kinect Based Motion Tracking
Dimitar Stanev and Konstantinos Moustakas

Examples of Topological Modeling of Matrix-Structured Data and Use of the Applied Attachment
Function of the Cellular Data System
Toshio Kodama, Toshiyasu L. Kunii, and Yoichi Seki

ARecycle NOID ARt Game: The Augmented Reality Game in Public Space
Alena Mesarosova and Manuel Ferrer Hernandez