

# IADIS International Conference

## Computer Graphics, Visualization, Computer Vision and Image Processing 2009

### PRELIMINARY CONFERENCE PROGRAM

#### Saturday 20<sup>th</sup>, June 2009

08:30-17:00 Welcome Desk

09:30-10:00 Session O – Opening Session  
(Room: Carvoeiro)

**OPENING SESSION**

*Prof. Pedro Isaías, Prof. Yingcai Xiao, Prof. Piet Kommers and Prof. Tomaz Amon*

10:00-11:00 Session KL1 – Keynote Presentation (1)  
(Room: Carvoeiro)

**VIRTUAL CITYSCAPES: CHALLENGES AND OPPORTUNITIES**

*Ming C. Lin, University of North Carolina, USA*

11:00-11:30 Coffee Break

11:30-12:30 Session KL2 – Keynote Presentation (2)  
(Room: Carvoeiro)

**VIRTUAL TRY ON THE WEB**

*Professor Nadia Magnenat-Thalmann, Director Of Miralab / C.U.I., University Of Geneva, Switzerland virtual Try On The Web*

13:00-14:30 Lunch Break

14:30-16:50 Session FSP 20.1  
Image Processing // Computer Vision  
(Room: Carvoeiro)

**IMPROVING THE ACCURACY OF POSITION DETECTION OF POINT LIGHT SOURCES ON DIGITAL IMAGES (1\_F077)**

*Thilo Bauer*

**DETECTION OF ROAD IN A HIGH RESOLUTION IMAGE USING A MULTICRITERIA DIRECTIONAL OPERATOR (1\_F078)**

*M. Naouai, A. Hamouda and C. Weber*

**AN ANALYSIS OF MEDICAL IMAGE PROCESSING METHODS FOR SEGMENTATION OF THE INNER EAR (1\_S021)**

*Catherine Todd, Mikhail Kirillov, Muaaz Tarabichi, Fazel Naghdy and Golshah Naghdy*

**RAGDOLLS IN ACTION – ACTION RECOGNITION BY 3D POSE RECOVERY FROM MONOCULAR VIDEO (1\_S053)**

*Verena Klingner and Michael Arens*

**EFFECTIVE SOUND-VISION SUBSTITUTION SYSTEM GUIDED BY SALIENT REGIONS (1\_S032)**

*Codruta O. Ancuti, Cosmin Ancuti and Philippe Bekaert*

**TEXTURE ANALYSIS FOR THE ADAPTION OF CORRELATION WINDOWS IN STEREO CORRESPONDENCE (1\_S034)**

*Dominik M. Aufderheide, Markus Steffens, Stephan Kieneke, Werner Krybus, Christine Kohring and Danny Morton*

14:30-16:30 Session FSP 20.2

User-interface paradigms and interaction methods // Interactive 3D graphics and immersive systems Computer Vision // Other  
(Room: Vila Lagoa)

**VIRTUAL DOMOTIC SYSTEMS: A NEW 3D MULTI-USER, HIGHLY IMMERSIVE AND INTUITIVE INTERFACE FOR RESIDENTIAL GATEWAYS (2\_F032)**

*Carmen Lastres Redondo, Francisco Javier Luque Cañones, Francisco Pedro Luque Oostrom, Iris Galloso Guitard, Asunción Santamaria Galdón and Jordi Muria Portillo*

**GESTURE BASED INTERACTION MODEL FOR USE IN AUGMENTED REALITY ENVIRONMENTS (2\_F021)**

*Ming-Jen Wang and Kuen-Meau Chen*

**GAZE-BASED FOCUS ADAPTION IN AN INFORMATION VISUALIZATION SYSTEM (2\_S024)**

*Marc Streit, Alexander Lex, Heimo Müller and Dieter Schmalstieg*

**PRACTICAL EXPERIENCE OF AN IMMERSIVE SYSTEM TO TEACH HUMAN ANATOMY (2\_S033)**

*R.J. Segura, J.R. Jiménez, C.J. Ogayar, Á.L. García, J.M. Noguera*

**AUTOMATIC HOLE DETECTION AND REMOVAL IN POLYGONAL MODELS (2\_S031)**

*Sergey V. Bederov*

14:30-17:30 Session FP 20.3

Persuasive Communication // Psychology // Journalism, Documentary and Autonomous  
(Room: Alfanzina)

**CULTIVATING HOSTS: THE DEVELOPMENT AND USE OF ICONS IN MULTI-STEP VIRAL MARKETING CAMPAIGNS OF MOVIE FRANCHISES (3\_F028)**

*Rocio Núñez*

**NONVERBAL ELEMENTS OF NEWS SOURCE AND THEIR INFLUENCE OVER INFORMATION PROCESSING: BASED ON EYE MOVEMENT WHEN EXPOSED TO**

**NEWSCASTER'S COSTUME AND ACCESSORIES (3\_F033)**

*Mahnwoo Kwon, Hyeryung Kim and Soyoung Bae*

**RATE CONTROLLING ENHANCEMENT BY WELL-PREDICTED RATE-ABUNDANCE PARAMETER IN H.264/AVC VIDEO CODING (3\_F038)**

*Din-Yuan Chan, Siang-Wei Ji and Ling-Yu Liao*

**VISUALITY AS THE OBJECT OF ANALYSIS (3\_F034)**

*Tapani Huovila*

**WHO'S IN THE PICTURE ABOUT WAR? A CONTENT ANALYSIS OF REPORTS ON THE GAZA-CRISIS 2009 IN FOUR NEWS MEDIA (3\_F037)**

*Karin Döbernick, Katharina Lobinger and Irmgard Wetzstein*

**RESEARCH ON THE FEATURES OF ANIMA: AN EXPRESSIVE FACTOR OF BRAND IDENTITY (3\_F035)**

*Timothy Yoonsuk Lee and Jisung Ahn*

16:30-17:00 Coffee Break

#### Sunday 21<sup>st</sup>, June 2009

**08:30-17:00 Welcome Desk**

**09:00-10:40 Session FSP 21.1**

**Web3D in education, health and energy // Virtual Reality  
// Other**

**(Room: Carvoeiro)**

**DINOSVIRTUAIS: INTERNET VIRTUAL EXHIBITION OF  
FOSSIL VERTEBRATES (2\_F035)**

*Marcos Monnerat, Pedro Romano, Orlando Grillo, Cristina  
Haguenauer, Sergio Azevedo and Gerson Cunha*

**EXPLORING THE KNOWLEDGE LEAKAGE RISKS  
ASSOCIATED WITH THE DESIGN AND DEVELOPMENT  
OF VIRTUAL REALITY ENVIRONMENTS: A CASE STUDY  
(2\_F030)**

*Fenio Annansingh and Miguel Baptista Nunes*

**DISSEMINATING 3D GRAPHICS AND WEB VIRTUAL  
REALITY KNOWLEDGE THROUGH PRIMARY  
EDUCATION INTERACTIVE LEARNING ACTIONS (2\_S040)**

*Jorge Ferreira Franco and Roseli de Deus Lopes*

**HIGHER ORDER SHAPE REPRESENTATIONS FOR  
INCREASED QUALITY OF EXPERIENCE IN 3D INTERNET  
(2\_S041)**

*Tor Dokken, Michal Koziuk, Lukasz Kwoska, Andre Stork and Ewald  
Quak*

**09:00-10:00 Session FSRP 21.2**

**Computer Graphics // Other Related Topics**

**(Room: Alfanzina)**

**BQ-RTREE: A R-TREE DATA STRUCTURE IMPROVED BY  
A SPATIAL PARTITION IN QUADTREE (1\_F020)**

*J.L. Pina, E. Cerezo and F. Seron*

**AUTOMATED CAMERA MANAGEMENT BASED ON  
EMOTIONAL ANALYSIS OF THE FILM SCRIPT (1\_F045)**

*Jorge Carrillo de Albornoz and Pablo Gervás*

**10:15-11:00 Poster Session (1P)**

**(Room: Alfanzina)**

**ON-LINE VISUALIZATION TOOL FOR GRID-BASED  
APPLICATIONS (1\_P046)**

*Eva Pajorová*

**TACIT VISUALISATION OF AN ELECTRICAL  
TRANSMISSION NETWORK OFF COMPUTER DISPLAYS  
(1\_P065)**

*Panagiotis Lazanas*

**PHOTOMETRIC REGISTRATION IN AUGMENTED  
REALITY APPLICATIONS WITH REALTIME IMAGE-  
BASED LIGHTING (1\_P074)**

*Rafael Radkowski and Matthias Linnemann*

**11:00-11:30 Coffee Break**

**Visualization**

**(Room: Alfanzina)**

**VIZSCHEMA – VISUALIZATION INTERFACE FOR  
SCIENTIFIC DATA (1\_F043)**

*Svetlana Shasharina, John R. Cary, Seth Veitzer, Paul Hamill, Scott  
Kruger, Marc Durant and David A. Alexander*

**VISUAL EVALUATION OF DOWNSAMPLING FILTERS IN  
RESPECT OF THE TOPOLOGY OF SCALAR FIELDS  
(1\_F052)**

*Martin Kraus*

**FLOATING LABELS: IMPROVING DYNAMICS OF  
INTERACTIVE LABELING APPROACHES (1\_S068)**

*Hilko Cords, Martin Luboschik and Heidrun Schumann*

**DIFFERENCES IN REAL AND VIRTUAL ILLUMINATION  
SCENARIOS (1\_R029)**

*Jördis J. Därr, Mario Cappitelli and Michael Olbert*

**11:30-13:25 Session FSRP 21.4**

**Visual Communication // Visual / Subliminal Perception //  
Other**

**(Room: Bogarts)**

**FOOD DEFINES US: A VISUAL DISCOVERY OF  
SINGAPORE'S GASTRONOMICAL CULTURE (3\_F030)**

*Kok Cheow Yeoh and Adeline Ong*

**YOUTH REPORT SEEING LESS SEXUAL CONTENT IN  
MOVIES THAN DO CONTENT ANALYSTS AND THE  
MOTION PICTURE ASSOCIATION OF AMERICA (3\_F025)**

*Sarah A. Parvanta, Amy Jordan and Jennifer Manganello*

**THE USE OF A PLASTIC LENS TO REPLICATE THE  
AESTHETIC OF THE REMEMBERED IMAGE (3\_S024)**

*Victoria Hill*

**COMPUTER TOOLS FOR MATHEMATICS LEARNING IN  
ARCHITECTURE AND DESIGN EDUCATION (3\_S041)**

*Susana Toscano, Cecilia Cej, Mabel Trozzoli, Enrique Javier Núñez,  
Diego Petrate*

**'DICTEE', META-FICTION OF EXPATRIATE WOMAN  
ARTIST (3\_R039)**

*Jiha Kim and Timothy Yoonsuk Lee*

**13:00-14:30 Lunch Break**

**14:30-15:30 Session KL3 – Keynote Presentation (3)**

**(Room: Alfanzina)**

**THE PHOTOGRAPHIC MOMENT, A VISUAL EXPERIENCE**

*Professor Roberto Muffoletto, Coordinator New Media & Global  
Education, College of Education Appalachian State University, USA*

**15:30-16:30 Session SP 21.5**

**Geometric Modeling**

**(Room: Alfanzina)**

**EFFECTIVE UNIFORM MESH PARAMETERIZATION FOR  
BOUNDARY COMPLEX MODELS (1\_S023)**

*Fei Zheng and Mei Chen*

**COMPRESSION OF DYNAMIC 3D MESHES WITH  
STRUCTURING BY ACQUIRING SURROUNDING  
VERTICES AND WAVELET TRANSFORM (1\_S061)**

*Kei Sakuragi, Shuji Watanabe and Akira Kawanaka*

**GEOMETRICAL ASPECTS OF WOOD AGING BASED ON  
3GMAP L-SYSTEM GROWTH MODEL (1\_S071)**

*Cyril Lam, Olivier Terraz, Nadir Benmounah and Djamchid  
Ghazanfarpour*

**17:30 – Conference Dinner**

Departure from the conference hotel.

**Monday 22<sup>nd</sup> June 2009**

**11:30-13:05 Session FSRP 21.3**

**08:30-13:30 Welcome Desk**

**09:00-09:45 Session Doctoral Consortium  
(Room: Alfanzina)**

**10:00-11:10 Session FSP 22.1  
Computer Graphics // Other Related Topics  
(Room: Alfanzina)**

**SURFACE COLLISION DETECTION FOR VIRTUAL  
PROTOTYPING (1\_F024)**  
*Mauro Figueiredo*  
**PARTIAL SHAPE MATCHING ENHANCED BY 3 DOF  
TRACKING INFORMATION (1\_S054)**  
*Joris S.M. Vergeest, Adrie Kooijman and Yu Song*  
**ESTIMATION OF A LOG-COMPRESSED K-DISTRIBUTION  
AND APPLICATION TO BREAST TUMOR  
SEGMENTATION AND DISCRIMINATION IN  
ULTRASONIC IMAGES (1\_S022)**  
*Atsushi Takemura*

**11:00-11:30 Coffee Break**

**11:30-13:10 Session FSRP 22.2  
Computer Graphics // Computer Vision  
(Room: Alfanzina)**

**IMPULSE-BASED DYNAMIC SIMULATION ON THE GPU  
(1\_F070)**  
*Daniel Bayer, Jan Bender and Raphael Dziol*  
**ENABLING VR BASED CONCEPTUAL SIMULATIONS FOR  
ENGINEERING TASKS (1\_F081)**  
*Holger Graf*  
**VIRTUAL DIDACTIC MODELS ON ENGINEERING  
EDUCATION: CONSTRUCTION OF A WALL, A BRIDGE  
AND A ROOF (1\_S019)**  
*Alcnia Z. Sampaio, Pedro G. Henriques and Carlos O. Cruz*  
**R-SNAKES FOR INTERACTIVE SEGMENTATION OF  
TUMORS FROM MICRO-CT (1\_S051)**  
*Lyubomir Zagorchev and Mary Jo Mulligan-Kehoe*

**13:10 Best Paper Awards Ceremony and Closing Session  
(Room: Alfanzina)**

*Prof. Pedro Isaas, Prof. Yingcai Xiao, Prof. Piet Kommers and Prof.  
Tomaz Amon*