5th Joint Virtual Reality Conference
11-13 december, 2013
Campus Paris Saclay
FRANCE

JVRC 2013
Program overview

CET vs. *Japan time*	Wednesday, 11th Dec.	Thursday, 12th Dec.	Friday, 13th Dec
08:30 *16:30*		Remote session opening	
08:45 *16:45*	Registration & Coffee welcome	JVRC-ICAT Scientific Keynotes **Pr. Robert LINDEMAN** Worcester Polytechnic Institute, Worcester, MA, USA. **Pr. Susumu TACHI** International Virtual Reality Center, Keio University, Japan.	Scientific session 4 **Haptics & Design** / Industrial session 4 **Regular talks**
09:30	**JVRC opening session**		
09:45 *17:45*	Scientific session 1 **Navigation**		Coffee break
10:00 *18:00*			Scientific Keynote (Tributes to Pr. John Wilson) **Pr. Peter WINK** Delft University of Technology, The Netherlands
10:15 *18:15*			
10:45 *18:45*	Posters & Demos Fast-Forward session	Scene changing & Coffee	
11:00 *19:00*	Coffee break	JVRC-ICAT Collaborative demo session	Scientific session 5 **Perception**
11:15 *19:15*	Industrial Keynote Dr. **Sylvain ALLANO** Scientific Director at PSA Peugeot Citroën, France.		
12:00 *20:00*		Remote session closure	**JVRC awards & closure session**
12:15	Lunch	Lunch EuroVR EC meeting	Lunch
14:15	Scientific session 2 **Graphics** / Industrial session 1 **Regular talks**	Industrial session 3 **VR-HYPER SPACE** / Scientific session 3 **Augmented Reality**	Lab visit & demos
15:15			
15:45	**Demo & Poster session**	**Demo session & Exhibition**	
16:15	Coffee Break		
16:30	Industrial session 2 **VISIONAIR** / EuroVR activity: SIG "Haptics"	EuroVR General Assembly / **Poster session & Exhibition**	
19:00	Bus transports		
Evening	Digiscope demo evening	Social event in Paris	

Exhibition will start at noon on **December 11**, and finish on **December 12** evening (duration: 1 ½ day).
Posters & Demos have to be **installed during all the conference**.
For the **Posters/Demos authors** as well as the **Exhibitors**, their **presence is mandatory** on their respective booths **during the dedicated sessions**, and their **active vigilance is expected during Coffee breaks and midday Lunches**.

JVRC 2013

Detailed program 1st day

Wednesday, 11th Dec

08:45-09:30 Registration & Coffee welcome (Building 3)

09:30-09:45 **JVRC opening session** (plenary- room A, Building 2)

Introductive talk – *P. Bourdot, P. Gravez, T. Kuhlen*
EuroVR talk – *A. Amditis*
EGVE talk – *B. Mohler, B. Raffin, O. Staadt*

09:45-10:45 **Scientific session 1** (plenary- room A, Building 2)**: Navigation**

OctaVis: Evaluating Effect of Rear-View and Embodied Rotation on Spatial Presence and Orientation (long)
E. Dyck

Evaluation of Visual Perceptual Behaviors Relative to the Presence of Wayfinding Aids in Complex Virtual Environments (long)
J. Bertrand, A. Wachter, S. Babu, J Luo, E. Ebrahimi, A. Duchowski, A. Gramopadhye, N. Meehan

10:45-11:00 **Posters & Demos Fast-Forward session** (plenary- room A, Building 2)

11:00-11:15 Coffee break - Posters & Demos free visit (Buildings 2 & 3)

11:15-12:15 **Industrial Keynote** (plenary- room A, Building 2)**:**

Dr. *Sylvain ALLANO*
Scientific Director at PSA Peugeot Citroën, France

12:15-14:15 Lunch - Posters & Demos free visit (Building 3)

14:15-16:15 **Scientific session 2** (parallel - room A1, Building 2)**: Graphics**

LightSkin: Real-Time Global Illumination for Virtual and Mixed Reality (long)
P. Lensing, W. Broll

Personalized Animatable Avatars from Depth Data (long)
P. Chaudhuri, J. Mashalkar

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Ray-Traced Collision Detection: Interpenetration Control and Multi-GPU Performance (long)
F. Lehericey, V. Gouranton, B. Arnaldi

Semantic Modelling of Interactive 3D Content (long)
J. Flotyński, K. Walczak

14:15-15:15   **Industrial session 1** (parallel - room A2, Building 2)**: Regular talks** (Chair: *J. Perret*)

The Augmented SkinExplorer™ platform for an Informative Skin Exploration
M. D. Vazquez-Duchene et al. (BASF Beauty Care & Scalable Graphics)

Virtual Reality; the technology behind a new business support model
C. *Freeman et al.* (AMRC with Boeing)

Augmented Reality System for Training, Assistance and Decision Making in Real Time situations in the Embedded Electronic field.
E. Artetxe González et al. (CreativiTIC Innova)

15:15-16:15   **Demos & Poster session** (parallel - Building 3)

16:15-16:30   Coffee break - Posters & Demos free visit (Buildings 2 & 3)

16:30-19:00   **Industrial session 2** (parallel - room A1, Building 2)**: VISIONAIR (**Chairs: *F. Noël, B. Raffin, and D. Mestre*)

VISIONAIR: an innovative use case enabler for visualization and interaction technologies
F. Noël.

3D Videos and Telepresence with Multi-camera 3D Modeling: from Algorithmic Issues to Artistic Performance
M. Douze, J. Jaussaud, B. Raffin

Application of Augmented Reality technologies in the Healthcare sector
J. A. Erkoyuncu, F. Salbrechter, D. Steenstra, R. Roy

Agility in home-care replanning through co-operation with graphical metaphors.
E. Lanzarone, C. Maclet, F. Noël

Towards a new approach for the description of shapes from multimodal data for Virtual Environments
Z. LI Franca-Gianini, J.-P. Pernot

Evaluating Human Interactions for the Internet of Things using VR
L. Rentzos

Immersive Virtual Reality with 3D sound as a research enabler : application to ergonomics, basket throw learning and sound enrichment
G. Dumont

Smart tablets for 3D interactions
D. R. Mestre, V. Perrot

16:30-19:00   **EuroVR activity** (parallel - room C&D, Building 2): SIG "Haptics" (Chair: *M. Ammi*)

19:00-   Bus transports

19:15-22:00   **DIGISCOPE demos evening (& buffet):**

1. **EVE system** (VENISE team at CNRS/LIMSI, Building 512, University of Paris-Sud):
   - MalCoMIICs - **M**ultimod**al** and **Co**-localized **M**ulti-user **I**nteractions for **I**mmersive **C**ollaboration**s** using the Scale 1 / Boom 3D haptic device – *P. Martin, N. Ladévèze, W. Chen*
   - BlenderCAVE: A flexible open source authoring tool presenting double stereoscopy and HCnav virtual navigation paradigm – *D. Touraine, W. Chen.*

2. **LSI -CAVE system** (LSI team at CEA LIST, Building 660, University of Paris-Sud):
   - Accurate robotics task planning with haptics on large industrial models – *M. Gautier*
   - Ergonomic diagnosis based on physical simulation for cobotics design – *V. Lanquepin*

3. **LVIC demo** (LVIC team at CEA LIST, Building 660, University of Paris-Sud):
   Mobile Augmented Reality technology relaying on camera – *S. Bourgeois*
   or **In|Situ| demo** (In|Situ|-INRIA team at PCRI, Building 650, University of Paris-Sud):
   WILD, an experimental high-resolution, interactive platform for conducting research on collaborative human-computer interaction and the visualization of large datasets – *S. Huot*

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Detailed program 2nd day

Thursday, 12th Dec.

08:30-08:45   **JVRC-ICAT remote sessions opening** (plenary- room A, Building 2)

08:45-10:45   **France-Japan Scientific Keynotes** (Chair: *D. Roberts*)**:**

Minding the Gap: Towards Crossing the Uncanny Valley for Immersive VR
Pr. ***Robert LINDEMAN***
Worcester Polytechnic Institute, Worcester, MA, USA.

History and future of telexistence
Pr. ***Susumu TACHI***
General chair of ICAT 2013
International Virtual Reality Center, Keio University, Japan.

10:45-11:00   Coffee break - Posters & Demos free visit (Buildings 2 & 3)

11:00-12:00   **France-Japan Collaborative Demos** (Chair: *D. Roberts*)

4k Stereoscopic Remote Sharing (live demo)
J. Berta – Mechdyne

SACARI: A telepresence platform for the remote control of vehicles (talk & video)
J.-M. Vézien – VENISE team, CNRS/LIMSI

12:00-12:15   **JVRC-ICAT remote sessions closure** (plenary- room A, Building 2)

12:15-14:15   Lunch - Posters & Demos free visit (Building 3)

12:15-14:15   **EuroVR EC meeting** (room C, Building 2)

14:15-16:15   **Industrial session 3** (parallel - room A1, Building 2)**: VR-HYPERSPACE** (Chairs: *M. D'Cruz, A. Amditis*)

VR-HYPERSPACE: Exploring new ways of enhancing comfort in future air travel using VR and MR
M. D'Cruz, H. Patel

Fooling the brain about the body using immersive virtual reality
M. Slater

Studying the effects of relaxation and stress on users' feeling of presence within a VE
I. Karaseitanidis, M. Leyrer, A. Saulton, P. Psonis

Perception of indoor and outdoor virtual spaces"
B. *Mohler*.

Enhancing the flight experience: The Transparent Seat and beyond
M. Bues, T. Grobler, O. Stefani

Airborne Avatars - Inflight Immersive Telepresence
S. Beck, A. Kunert, A. Kulik, B. Fröhlich

14:15-15:45   **Scientific session 3** (parallel - room A2, Building 2)**: Augmented Reality**

Exploring Distant Objects with Augmented Reality (long)
M. Tatzgern, R. Grasset, E. Veas, D. Kalkofen, H. Seichter, D. Schmalstieg

Background Motion, Clutter, and the Impact on Virtual Object Motion Perception in Augmented Reality (long)
V. Ferrer, Y. Yang, A. Perdomo, J. Quarles

The Impact of Altered Gravitation on Performance and Workload of Augmented Reality Hand-Eye-Coordination:
Inside vs. Outside of Human Body Frame of Reference (long)
D. Markov-Vetter, O. Staadtt

14:15-16:15   **Demos session & Exhibition** (parallel - Building 3)

16:15-16:30   Coffee break - Posters & Demos free visit (Buildings 2 & 3)

16:30-19:00   **Euro VR General Assembly** (parallel - room A, Building 2)

16:30-19:00   **Posters session & Exhibition** (parallel - Building 3)

19:00-   Bus transports

Evening   **Social event in Paris:** Dinner cruise on Seine river.

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Detailed program 3rd day

Friday, 13th Dec.

08:45-09:45   **Scientific session 4** (parallel - room A1, Building 2)**: Haptics & Design**

Free-form implicit haptic rendering (short)
K. Moustakas

Methodology for Immersive Emotional Assessment of Virtual Product Design by Customers (long)
J. Katicic, J. Ovtcharova, P. Häfner

08:45-09:45   **Industrial session 4** (parallel - room A2, Building 2)**: Regular talks** (Chair: *R. Blach*)

Machine upgrade services - AR/VR use scenarios for Mobile Crushers, Case Metso Mining and Construction
Juhamatti Heikkilä (Metso Minerals, Inc.)

Physical-realistic simulation of orange peel artifact for trucks paintings
F. Rabellino et al. (VOLVO Group)

Industrial applications of haptic technologies
J. Perret (Haption)

09:45-10:00   Coffee break - Posters & Demos free visit (Buildings 2 & 3)

10:00-11:00   **Scientific Keynote** (plenary- room A, Building 2)**:**
                        Tributes to Pr. *John WILSON (Chairs: S. Cobb, M. D'Cruz)*

Over 20 years of Human Factors of Virtual Reality
Pr. *Peter VINK*
Delft University of Technology, The Netherlands.

11:00-12:00   **Scientific session 5** (plenary- room A, Building 2)**: Perception**

Towards Enabling More Effective Locomotion in VR Using a Wheelchair-based Motion Platform (long)
V. Interrante, C. Ella, M. Samantha, L. Peng, P. F. Loren

"It" + "I": Virtual Embodiments as Hybrid Experiences (short)
T. Giraud, A. Paljic, L. Leroy

12:00-12:15   **JVRC awards & closure session** (plenary- room A, Building 2)**:**

- EGVE scientific award
- EuroVR & AFRV industrial award
- JVRC 2014
- Closure – *P. Bourdot, P. Gravez, T. Kuhlen*

12:15-13:15   Lunch (Building 3)

13:30   Bus transports

14:00-16:00   **Lab visit & demos** (for those who didn't attend the Wednesday's demos evening)**:**

EVE system (VENISE team at CNRS/LIMSI, Building 512, University of Paris-Sud):
- MalCoMIICs - **M**ultimod**al** and **Co**-localized **M**ulti-user **I**nteractions for **I**mmersive **C**ollaboration**s** using the Scale 1 / Boom 3D haptic device – *P. Martin, N. Ladévèze, W. Chen*
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