

Conference registration on [www.laval-virtual.org](http://www.laval-virtual.org)

## VRIC 2011 Final Program

**50 conferences – 14 countries represented!**



# Full Program

Time	Room A	Room B	Room C
8:30am - 9:00am	Registration	Registration	Registration
9:00am - 10:00am	Registration	S3 - Haptics for Telepresence...	S6 - ReVolution 2011
10:00am - 11:00am	S1 - Ability... <b>ASR* (Keynote Speaker)</b>	S5 - New uses... <b>Vin Sumner (Keynote Speaker)</b>	S2 - User experiences
11:00am - 11:30am	Coffee Break & Poster Pres	Coffee Break & Poster Pres	Coffee Break & Poster Pres
11:30am - 12:30am	S7 - Virtual Arts <b>J. Ventrella (Keynote Speaker)</b>	<b>Plenary Session</b>	S6 - ReVolution... <b>E. Huhtamo (Keynote Speaker)</b>
12:30am - 2:00pm	Lunch Break	Lunch Break	Lunch Break
2:00pm - 3:00pm	S1 - Ability... <b>M. Zancanaro (Keynote Speaker)</b>	<b>Plenary Session</b>	S3 - Haptics... <b>A. Kheddar (Keynote Speaker)</b>
3:00pm - 4:00pm	S1 - Ability...	S5 - New uses...	S4 - New displays
4:00pm - 4:30pm	Coffee Break & Poster Pres	Coffee Break & Poster Pres	Coffee Break & Poster Pres
4:30pm - 6:00pm + wd	S1 - Ability...	S5 - New uses...	S4 - New displays

Wednesday  
6th April

Thursday  
7th April

\* Anne-Sophie Rigaud

-  S1 : Ability, Virtual Reality and Associated Technologies (AVRAT)
-  S2 : New technologies for new uses
-  S3 : Haptics for Telepresence, Teleoperation and Collaborative Environments
-  S4 : New Immersive Displays of the Near Future
-  S5 : New technologies for new uses
-  S6 : Laval Virtual ReVolution2011 - World Performance of VR Applications
-  S7 : Virtual Arts

Wednesday 6th April

## **Symposium 1 - Ability, Virtual Reality and Associated Technologies (AVRAT)**

Chair: Evelyne KLINGER, Arts et Métiers ParisTech, France

Co-chair: Paul SHARKEY, University of Reading, UK

This full day symposium is dedicated to the contribution of Virtual Reality and Associated Technologies to the recovery of abilities.

*Ce symposium d'une journée est consacré aux apports de la réalité virtuelle et des technologies associées à la récupération des capacités cognitives et motrices.*

*9h – Registration*

**10h – Introduction: Evelyne Klinger, Arts et Métiers ParisTech**

**10h15 - AVRAT Keynote Speaker: Professor Anne-Sophie RIGAUD, MD, PhD, Broca Hospital, Paris, France:** Accessibility of assistive technology for elderly people with sensory and cognitive deficits

*11h15 – Coffee Break & VRIC Posters Presentation*

**11h 30 – VRIC Keynote Speaker (Plenary Session): Jeffrey Ventrella, MIT, USA:** Virtual Body Language

*12h30 – Lunch (included in registration fees)*

**14h – VRIC Keynote Speaker (Plenary Session): Massimo ZANCANARO, i3 Research Unit, Bruno Kessler Foundation, Trento, Italy:** Constructive misunderstandings: a computer scientist's report on the design of collaborative technologies for children on the autism spectrum

**15h – AVRAT Session, chaired by Paul Sharkey, University of Reading, UK**

15h – P5, Development of a spatial memory task in realistic virtual environments, Sebastian Koenig, University of Canterbury, New Zealand

15h30 – P9, Legare, Developing social connections, Isabelle CHEMIN, association CHEMIN DES SENS, France

*16h – Coffee Break & VRIC Posters Presentation*

16h15 – P7, The Use of Game Level Editors to Create Virtual Environments for the Treatment of Anxiety: Effects on Presence and Anxiety Levels, Eric Malbos, Macquarie University, Australia

16h 45 – P29, Design and Evaluation of a Virtual Environment for the Treatment of Anger, Willem-Paul Brinkman, Delft University of Technology, Netherlands

17h15 – P31, Design Methodology of a Shopping Simulator for Cognitive Stroke Rehabilitation, Karen Reynolds, Flinders University, Australia

17h45 – Discussion

*18h - End of Symposium*

*20h - GALA DINNER (Same location)*

Wednesday 6th April

## Symposium 5 - New technologies for new uses

Chair : Eric Seulliet, La Fabrique du Futur, France

The need for new products and services is accelerating at a fast pace as new usages emerge. Therefore enterprises need to speed up the innovation process and to better target the true needs of the consumers. 3D and immersive environments are ideal tools for co-creation purposes and living lab approaches with the end users.

*Le besoin de nouveaux produits et services s'accélère à un rythme rapide au fur et à mesure que de nouveaux usages émergent. C'est pourquoi les entreprises doivent rapidement cibler les nouveaux besoins des consommateurs. La 3D et les environnements immersifs sont des outils idéaux pour la co-création et les approches « Living Lab » avec les utilisateurs finaux.*

9h – Registration

**10h – Introduction & Keynote: Eric Seulliet, La Fabrique du Futur, France**

11h – Coffee Break & VRIC Posters Presentation

**11h 30 – VRIC Keynote Speaker (Plenary Session): Virtual Body Language, Jeffrey Ventrella, MIT, USA**

12h30 – Lunch (included in registration fees)

**14h – VRIC Keynote Speaker (Plenary Session): Constructive misunderstandings: a computer scientist's report on the design of collaborative technologies for children on the autism spectrum, Massimo ZANCANARO, i3 Research Unit, Bruno Kessler Foundation, Trento, Italy**

15h –P12, Authentic Simulation of Spatial Environment in Cyber-Microcosm as the Ultimate Virtual-Reality Context for Situated Language Learning, Kim Tae-Kyun, Jung Gung-Hun, Park Jong-Hee, Department of Information and Communications, Kyungpook National University, Taegu, Korea.

15h30 - P13, Generation of immersive environments from Information Systems, Didier SEBASTIEN, University of La Reunion, France

16h – Coffee Break & VRIC Posters Presentation

16h30 – P21, Eco-driving performance assessment with in-car visual and haptic feedback assistance, Anne Parodi-Keravec, Renault SAS, Technical center for simulation, France

17h – P22, Creation and communication in virtual worlds, experimentations with OpenSim, Edwige Lelievre, Julien Levesque, ENSAD and University Paris 8, France

17h30 - P24, Distributed Cognition, Mimic, Representation and Decision Making, Robert E. Wendrich, University of Twente, Netherlands

18h – P28, Hierarchical Puppetry - from ragdoll physics to avatar expression, Jeffrey Ventrella, United States

18h30 - End of Symposium

20h - GALA DINNER (Same location)

Wednesday 6th April

## Symposium 2 - New user experiences and interfaces for the web of things

Chair: Frédérique PAIN, Alcatel Lucent, Bell Labs, France

Virtualization of physical things that surrounds us presents a novel challenge for the product industry and especially User Experience (UX) practitioners. Augmenting real-world objects with virtual objects addressable on the Web allows for new machine-to-machine interactions to be designed but also for a new user experience to be shaped.

*La virtualisation des objets qui nous entourent représente un nouveau défi pour l'industrie. Objets augmentés, communicants, adressables sur le Web... Ils permettent des interactions de machine à machine et de nouvelles expériences pour leurs utilisateurs.*

*9h – Registration*

**10h – Keynote Speaker:** P37, The Bridge Between Physical and Digital Worlds: Implications for the Design of Internet-Enabled Products, **Pierrick Thébault, Alcatel Lucent Bell Labs, France**

*11h – Coffee Break & VRIC Posters Presentation*

**11h 30 – VRIC Keynote Speaker (Plenary Session):** Virtual Body Language, **Jeffrey Ventrella, MIT, USA**

*12h30 – Lunch (included in registration fees)*

Wednesday 6th April

## Symposium 4 - New Immersive Displays of the Near Future

Chair : Carolina Cruz-Neira, University of Louisiana at Lafayette, USA

The symposium will explore the current trends in the development of display technologies, exciting research being done in this area, and the new application venues that are opening by the new technologies. This symposium provides the attendees with the opportunity to expand their thinking about ways to use contemporary display devices in a myriad of application contexts.

*Ce symposium est consacré aux tendances actuelles dans le développement des technologies d'affichage et aux nouvelles applications possibles. Il offre aux participants l'occasion d'élargir leur réflexion sur les façons d'utiliser les nouveaux périphériques d'affichage et d'interaction dans une multitude de contextes d'application.*

**14h – VRIC Keynote Speaker (Plenary Session):** Constructive misunderstandings: a computer scientist's report on the design of collaborative technologies for children on the autism spectrum, **Massimo ZANCANARO, i3 Research Unit, Bruno Kessler Foundation, Trento, Italy**

**15h – Keynote Speaker:** New Immersive Displays of the Near Future, Carolina Cruz-Neira, University of Louisiana at Lafayette, USA

15h30 - P3, Transparent Electrostatic Tactile Surface, a way to programmable textures, Zoran Radivojevic, NOKIA, United Kingdom

*16h – Coffee Break & VRIC Posters Presentation*  
*P19, Poster, Low-cost and home-made immersive systems, For home or for work, KUNTZ, Sébastien, CIGER, Jan, VRGeeks, Paris, France*

16h30 – P34, The Jumper Metaphor: An Effective Navigation Technique for Immersive Display Setups, Benjamin Bolte, University of Munster, Germany

17h – P35, Cutting the Cord: Wireless Mixed Reality Displays, Mathis Csisinko, Vienna University of Technology, Austria

17h30 – P36, Energy-Efficient Low Cost Multi-View Display Based on Pulsed LED-LCD Projectors, Achim Pross, Fraunhofer IAO, Germany

18h – P20, A Multiview Multitouch Surface for 3D Content Visualization and Viewpoint Sharing, Jean-Baptiste de la Riviere, Immersion SAS, France

18h30 – Panel: The ways to use contemporary display devices & new application contexts

19h - End of Symposium

20h - GALA DINNER (Same location)

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Thursday 7th April

## Symposium 3 - Haptics for Telepresence, Teleoperation and Collaborative Environments

Chair: Mehdi AMMI, CNRS/LIMSI, Univ. Paris-Sud 11, Haptic-SIG, France

Co-chair: Jérôme PERRET, Haption, Haptic-SIG, France

While haptic sense provides the most natural way to interact and physically feel the environment, it also has an important role in communication and collaboration between users through co-located and remote configurations. This workshop intends to foster exchanges among participants and exhibit recent and original findings in the field of Haptics for Telepresence, Teleoperation and Collaborative Environments.

*Bien que le sens haptique soit la manière la plus naturelle d'interagir et de ressentir physiquement un environnement virtuel, il a aussi un rôle important pour la communication et la collaboration entre les utilisateurs par le biais de configurations co-localisées ou télé-opérées. Ce symposium vise à favoriser les échanges entre les participants et à présenter les résultats récents et inédits dans le domaine de l'haptique pour la Téléprésence, la téléopération et les environnements de collaboration.*

8h30 – Registration

**Session 1 Chair: Mehdi AMMI, CNRS/LIMSI, Univ. Paris-Sud 11, France**

9h - Conference introduction: Haptics for Telepresence, Teleoperation and Collaborative Environments, Mehdi AMMI, CNRS/LIMSI, Univ. Paris-Sud 11, Haptic-SIG, France

9h30 - P23, Software Architecture for a Multimodal Platform Applied to Cooperative Manipulation Tasks, WIRZ Raul, CERRADA Pablo, BARRIO Jorge, FERRE Manuel, AYESTARAN Marta , UPM-CSIC, Spain

10h - P27, SMS Text Based Affective Haptic Application, Kazi Masudul ALAM, Abdulmoteleb SADDIK EL, Sandro HARDY, Akther AYSHA, Multimedia Communications Research Laboratory, MCRLab, University of Ottawa, Canada

10h30 - P8: Design of haptic interaction elements of consumer products, Monica Bordegoni, Umberto Cugini, Francesco Ferrise, Politecnico di Milano, Italy

11h – Coffee Break & VRIC Posters Presentation

**11h 30 – VRIC Keynote Speaker (Plenary Session):** Hand Screens, Wrist Watches and iPads: an Archaeology of Wearable Media, **Erkki Huhtamo, UCLA Media Design ARTS, Los Angeles, USA**

12h30 – Lunch (included in registration fees)

***Symposium 3 - Haptics for Telepresence, Teleoperation and Collaborative Environments***

***Session 2 Chair: Jerome Perret, Haption, France***

**14h – VRIC Keynote Speaker (Plenary Session): Abderrahmane Kheddar, Human-Humanoid Haptic Joint Actions, AIST Joint Robotic Laboratory, UMI3218/CRT, Tsukuba, Japan**

15h - P25, Modeling an active virtual object for gesture analysis using a haptic interface, Diana HERRERA, Jean-Loup FLORENS, Laboratoire ICA, Grenoble INP, France

15h30 - P30, TSF: A Versatile New Tissue Simulation Framework, Greg Ruthenbeck, Fabian Lim, Karen Reynolds, Flinders University, Australia

*16h – Coffee Break & VRIC Posters Presentation*

16h30 – Panel

*17h - End of Symposium*

*18h15 – Shuttle from Exhibition to Laval Theatre*

***19h – Laval Virtual Awards at Laval Theatre & Cocktail***

***20h30 – Laval Virtual Awards Cocktail***

*22h & 22h15 - Shuttle from Laval Theatre to Exhibition car park*



Thursday 7th April

**Symposium 6 - "Laval Virtual ReVolution2011" - World Performance of VR Applications**

Chair : Akihiko SHIRAI, KAIT Univ., Japan

Co-chair : Simon RICHIR, Arts et Metiers ParisTech, France

Presentation of the world's most innovative achievements in the field of virtual reality, augmented reality and their future applications.

*Présentation des réalisations les plus novatrices au monde dans le domaine de la réalité virtuelle, de la réalité augmentée et de leurs applications futures.*

*8h30 – Registration*

9h – Opening Address: Akihiko SHIRAI, KAIT Univ., Japan

9h05 – ReVolution 2011 Invited Projects (15 min each)

- JoryJory
- The Interactive Tops
- Sense-Roid
- HINOCO

10h10 - Welcome+ projects (12 min each)

- Bird-call Window
- Ether Synthesizer
- CartooNect
- Invoked computing

*11h – Coffee Break & VRIC Posters Presentation*

**11h 30 – VRIC Keynote Speaker (Plenary Session):** Hand Screens, Wrist Watches and iPads: an Archaeology of Wearable Media, **Erkki Huhtamo, UCLA Media Design ARTS, Los Angeles, USA**

*12h30 – Lunch (included in registration fees)*

*18h15 – Shuttle from Exhibition to Laval Theatre*

**19h – Laval Virtual Awards at Laval Theatre & Cocktail**

**20h30 – Laval Virtual Awards Cocktail**

*22h & 22h15 - Shuttle from Laval Theatre to Exhibition car park*

Thursday 7th April

## Symposium 7 – Virtual Arts

Chair : Alain LIORET, Arts et Technologies de l'Image, Université Paris VIII, France

Co-Chair : Jeffrey VENTRELLA, artist/researcher, San Francisco, USA, Keynote Speaker

This symposium is about Virtual Arts, all including some technologies for new kind of realization. With Augmented Reality, Mixed Reality, Virtual Reality, but also worlds inhabited by artificial creatures, modern artists can make performances, installations, real-time worlds of pictures, virtual theater, virtual cinematography, and more... The Art of XXI<sup>th</sup> century is just beginning.

*Ce symposium est consacré à tous les Arts virtuels et aux technologies qui permettent la création de réalisations inédites et étonnantes. Avec la réalité augmentée, la réalité mixte, la réalité virtuelle, mais aussi les mondes habités par des créatures artificielles, les artistes modernes peuvent monter des performances, des installations, créer des mondes en temps réel, des images, du théâtre virtuel, de la cinématographie virtuelle, et plus encore... L'art du XXI<sup>ème</sup> siècle ne fait que commencer.*

**14h – VRIC Keynote Speaker (Plenary Session): Abderrahmane Kheddar, Human-Humanoid Haptic Joint Actions, AIST Joint Robotic Laboratory, UMI3218/CRT, Tsukuba, Japan**

15h – P14, Emergence of a space medium, Garnier Francois, EnsadLab, Ecole Nationale Supérieure des Arts Decoratifs, France

15h30 – P4, What Matters in Digital Art? The (Digital) Soul!, Pierre BERGER, Les Algoristes, France

*16h – Coffee Break & VRIC Posters Presentation*

*- P32, Experience of Infinity, Mehrdad Garousi, painter, photographer, and fractal artist, Iran*

*- The wave particle of Art, Libero Acerbi, Italy*

16h30 – Special Keynote by Alan Dorin, Monash University, Australia

17h – P10, Composing for the Interactive Medium, Robyn Taylor, University of Alberta, Canada

17h30 – P2, Proticipation: The Australia Council and Social Media Arts in Virtual Worlds, Dr Ricardo Peach, Australia Council for the Arts, Australia

18h - P18, In the clouds - virtual experience of a matter, Nathalie DELPRAT, Université Pierre et Marie Curie, Paris and LIMSI-CNRS, Orsay, France

18h30 – End of Symposium

**19h – Laval Virtual Awards at Laval Theatre & Cocktail**

**20h30 – Laval Virtual Awards Cocktail**

22h & 22h15 - Shuttle from Laval Theatre to Exhibition car park