

**VECIMS 2005**  
**18-20 JULY 2005**  
**Technical Program** (updated July 14<sup>th</sup>, 2005)

	<b>18 July 2005 Monday</b>	<b>19 July 2005 Tuesday</b>	<b>20 July 2005 Wednesday</b>
<b>08:30 – 09:00 AM</b>	<b>Opening Session</b>		
<b>09:00 – 11:00 AM</b>	<b>Session 1</b>	<b>Session 5</b>	<b>Session 8</b>
<b>11:00 – 11:30 AM</b>	<i>Coffee break</i>	<i>Coffee break</i>	<i>Coffee break</i>
<b>11:30 AM – 1:00 PM</b>	<b>Session 2</b>	<b>Session 6</b>	
<b>1:00-2:00 PM</b>	<i>Lunch</i>	<i>Lunch</i>	
<b>2:00-4:00 PM</b>	<b>Session 3</b>	<b>Session 7</b>	
<b>4:00-4:30 PM</b>	<i>Coffee break</i>	<i>Coffee break</i>	
<b>4:30-6:00 PM</b>	<b>Session 4</b>		

**July 18, 2005 – Monday**

**Opening Session**

**Session 1: Virtual Instrumentation**

*Session Chair:* Stella Clarke, Technische Universität München, Germany

**VE5027      A dsPic-based Measurement System Extracting a New Power Quality Index in the Event of Voltage Sag Occurrences**

ITALY	Claudio De Capua	University "Mediterranea" di Reggio Calabria
ITALY	Stefano De Falco	University Federico II of Naples
ITALY	Annalisa Liccardo	Università di Napoli Federico II
ITALY	Emilia Romeo	University "Mediterranea" of Reggio Calabria

**VE5028      A Low Cost Embedded Web Service for Measurements on Power Systems**

ITALY	G. Bucci	University of L'Aquila
ITALY	F. Ciancetta	University of L'Aquila
ITALY	E. Fiorucci	University of L'Aquila
ITALY	Daniele Gallo	Second University of Naples
ITALY	Carmine Landi	Second University of Naples

**VE5029      Distributed Laboratory for Metrological Confirmation of Power Quality Instruments**

ITALY	B. D'Apice	Seconda Università di Napoli II
ITALY	D. Gallo	Seconda Università di Napoli II
ITALY	C. Landi	Seconda Università di Napoli II

ITALY N. Rignano Seconda Università di Napoli II

**VE5031 A Virtual Instrument for Estimation of Optimal Calibration Intervals by a Decision Reliability Approach**

ITALY Claudio De Capua University "Mediterranea" di Reggio Calabria

ITALY Stefano De Falco University Federico II of Naples

ITALY Annalisa Liccardo Università di Napoli Federico II

ITALY Rosario Morello University "Mediterranea" of Reggio Calabria

**Session 2: Telepresence**

*Session Chair:* Anna Cysewska-Sobusiak, Poznan University of Technology, Poland

**VE5012 A Virtual Scenario to Test the Influence of an International Network and Simulated Inertia on Telepresence Performance**

GERMANY Stella Clarke Technische Universität München

GERMANY Franziska K. B. Freyberger University of the Armed Forces

GERMANY Helena Pongrac University of the Armed Forces

GERMANY Michael F. Zaeh Technische Universität München

**VE5030 A 3D Virtual Immersive Laboratory for Distributed Telemeasurement**

ITALY Raffaele Soloperto University of Bologna

ITALY Alberto Roversi University of Bologna

ITALY Andrea Conti University of Bologna

ITALY Davide Dardari University of Bologna

ITALY Oreste Andrisano University of Bologna

**VE5035 Adaptive Haptic-Based Environment through Context- Awareness**

CANADA Abdulmotaleb El Saddik University of Ottawa

CANADA Mauricio Orozco University of Ottawa

CANADA Ismail Shakra University of Ottawa

**Session 3: Applications**

*Session Chair:* Antonio Pietrosanto, University of Salerno, Italy

**VE5002 ICT in Instrumentation and Measurement - the Publishing Side**

POLAND Remigiusz J. Rak Warsaw University of Technology

**VE5025 SVM-Based Approach for Instrument Fault Accommodation in Automotive**

ITALY Giovanni Betta University of Cassino

ITALY Domenico Capriglione University of Cassino

ITALY Mario Molinara University of Cassino

**VE5026 Experimenting with a Robotic System for Localizing Magnetic Field Sources**

ITALY Giulio Fontana Politecnico di Milano

ITALY Vincenzo Caglioti Politecnico di Milano

ITALY Francesco Amigoni Politecnico di Milano

ITALY S. Cadonici Politecnico di Milano

**VE5034 Breaking Nyquist Criteria Using Alias Frequencies**

ROMANIA Codrin Donciu "Gh. Asachi" University of Iasi

ROMANIA Cristina Temneanu "Gh. Asachi" University of Iasi

ROMANIA Romeo Ciobanu "Gh. Asachi" University of Iasi

**Session 4: Distributed Virtual Environments**

*Session Chair:* Abdulmoteleb El Saddik, University of Ottawa, Canada

**VE5017 Exploring the Role of Perceived Ease of Use in Web-based Information System Usage**

UK Maryam Aziz Brunel University

UK Robert D. Macredie Brunel University

**VE5024 Balancing Computational and Transmission Power Consumption in Wireless Image Sensor Networks**

ITALY Marcello Marano University of Salerno

ITALY Vincenzo Paciello University of Salerno

ITALY Antonio Pietrosanto University of Salerno

ITALY Luigi Ferrigno University of Cassino

**VE5033 A Data Filtered Schema to Support Synchronization in Large-Scale Distributed and Collaborative Virtual Environments**

CANADA A. Boukerche University of Ottawa

CANADA R.B. Araujo University of Ottawa

**July 19, 2005 – Tuesday**

**Session 5: Visual Models**

*Session Chair:* Ramiro Velázquez, Laboratoire de Robotique de Paris, France

**VE5014 Noise-Resistive 3D Shape Modeling for Virtual Heritage Applications**

JAPAN Junta Doi Chiba Institute of Technology

JAPAN Wataru Sato Chiba Institute of Technology

**VE5019 A Mathematical Model of Color Harmony for Generating Color Schemes for Computer Interfaces**

NEW ZEALAND Paul Lyons Massey University

NEW ZEALAND Giovanni Moretti Massey University

**VE5022 Evaluation of the Uncertainty of Geometrical Features Extracted from Images**

ITALY Rosario Anchini DIIIIE

ITALY Alfredo Paolillo University of Salerno

ITALY Consolatina Liguori University of Salerno

**VE5032 Face Pose Estimation Based on 3D Detection of Pupils and Nostrils**

JAPAN Yoshinobu Ebisawa Shizouka University at Hamamatsu

JAPAN Yuji Nurikabe Shizouka University at Hamamatsu



## **Session 6: Audio Interfaces**

*Session Chair:* Consolatina Liguori, University of Salerno, Italy

### **VE5016 Accent Adaptation in Speech User Interface**

CANADA	Mohammad Tanabian	Carleton University
CANADA	Rafik A. Goubran	Carleton University

### **VE5018 Improving Spatial Perception Through Sound Field Simulation in VR**

BRAZIL	João Antônio Zuffo	University of Sao Paulo
BRAZIL	Marcelo Knorich Zuffo	Polytechnic School, University of Sao Paulo
BRAZIL	Regis Rossi Alves Faria	Polytechnic School, University of Sao Paulo

### **VE5021 3D Sound Intensity Measurements: Accuracy Enhancements with Virtual Instrument Based Technology**

ITALY	Giovanni Moschioni	Politecnico di Milano
ITALY	Marco Tarabini	Politecnico di Milano

## **Session 7: Virtual Environment Interfaces**

*Session Chair:* Giovanni Moschioni, Politecnico di Milano, Italy

### **VE5004 Utilization of Human-Computer Interaction in Wireless Transmission of Arterial Pulse Waveforms**

POLAND	Anna Cysewska-Sobusiak	Poznan University of Technology
POLAND	A. Hulewicz	Poznan University of Technology
POLAND	Michał Boltrukiewicz	Poznan University of Technology

### **VE5007 A Low-Cost Highly-Portable Tactile Display Based on Shape Memory Alloy Micro-Actuators**

FRANCE	Moustapha Hafez	CEA/LIST
FRANCE	Jérôme Szewczyk	Laboratoire de Robotique de Paris
FRANCE	Ramiro Velázquez	Laboratoire de Robotique de Paris
FRANCE	Edwige Pissaloux	Laboratoire de Robotique de Paris

### **VE5023 Recognizing and Quantifying Human Movement Patterns through Haptic-based Applications**

CANADA	Mauricio Orozco	University of Ottawa
CANADA	Abdulmotaleb El Saddik	University of Ottawa

## **July 20, 2005 – Wednesday**

## **Session 8: Models for Virtual Environment Interaction**

*Session Chair:* Abdulmotaleb El Saddik, University of Ottawa, Canada

### **VE5009 Measurement of Quality of Service (QoS) for Peer-to-Peer Networks**

ITALY	Francesco Gianfelici	Universita' Politecnica delle Marche
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### **VE5010 Measurement and Modelling of Interactions between Virtual Environment and Components: a Theoretical Characterization**

ITALY	Francesco Gianfelici	Universita' Politecnica delle Marche
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**VE5036**

**Heterogeneous Multi-Agent Framework for Environment Monitoring Applications**

CANADA

Rami Abielmona

University of Ottawa

CANADA

Emil M. Petriu

University of Ottawa

CANADA

Thom Whalen

CRC Ottawa