

# **IEEE Workshop on Computational Intelligence in Virtual Environments**

**(CIVE 2009)**

**Nashville, Tennessee, USA  
30 March – 2 April 2009**



**IEEE Catalog Number: CFP09CIV-PRT  
ISBN: 978-1-4244-2772-7**

# TABLE OF CONTENTS

## **Session CIVE-1: Soft Computing Control in Virtual Environments**

*Thursday, April 2, 8:30AM-10:30AM, Room: Kingsley, Chair: Zeeshan-ul-hassan Usmani, Florida Institute of Technology, USA*

### **Stable Design of Fuzzy Controllers for Robotic Telemanipulation Applications [#6] ..... 1**

Radu-Emil Precup, Stefan Preitl, Emil M. Petriu, Jozsef K. Tar, Mircea-Bogdan Radac and Claudia-Adina Dragos  
Politehnica University of Timisoara, Romania; University of Ottawa, Canada; Budapest Tech Polytechnical  
Institution, Hungary

### **High-resolution Stereo Video Rectification Through a Cost-efficient Real-time GPU Implementation Using Intrinsic and Extrinsic Camera Parameters [#10] ..... 7**

Fabien Goslin, Florian Schramm, Claude Andriot, Alexandre Bouchet and Simon Richir  
Arts et Metiers ParisTech, LAMPA, France; CEA-LIST, France; CLARTE, France

### **Selective Elasticity Data Acquisition on 3D Deformable Objects for Virtualized Reality Applications [#11] ..... 14**

Ana-Maria Cretu, Pierre Payeur and Emil M. Petriu  
University of Ottawa, Canada

## **Session CIVE-2: Virtual Environment Applications 1**

*Thursday, April 2, 11:00AM-1:00PM, Room: Kingsley, Chair: Azzedine Boukerche, University of Ottawa, Canada*

### **An Intelligent Agent-Based Framework for Privacy Payoff Negotiation in Virtual Environments [#17] ..... 20**

Abdulsalam Yassine and Shervin Shirmohammadi  
University of Ottawa, Canada

### **A Holistic Approach to Assessing Students' Laboratory Performance using Bayesian Networks [#9] ..... 26**

Ifeyinwa E. Chika, Djamel Azzi, Alan Hewitt and James Stocker  
University of Portsmouth, United Kingdom

### **3D Face Synthesis Based on the Information of Words Expressing Facial Features [#13] ..... 33**

Futoshi Sugimoto and Masahide Yoneyama  
Toyo University, Japan

### **First 24 Hours on the Internet - A Marketing Perspective [#3] ..... 39**

Zeeshan-ul-hassan Usmani, Amina Tariq and Talal Puri  
Florida Institute of Technology, United States; National University of Emerging Sciences, Pakistan; GE  
Transportation, United States

**Session CIVE-3: Virtual Environmnet Applications 2**

*Thursday, April 2, 2:00PM-4:00PM, Room: Kingsley, Chair: Fabien Goslin, Ecole Nationale Supérieure d'Arts et Métiers, France*

**Architectural Design for the 3D Virtual Radiology Department using Virtual Reality Technology [#16] .....45**

Azzedine Boukerche, Abdulaziz Al Hamidi, Richard Pazzi and Luqman Ahmad  
University of Ottawa, Canada

**Virtual Iraq - Simulation of Insurgent Attacks [#4] .....53**

Zeeshan-ul-hassan Usmani, Eyosias Imana and Daniel Kirk  
Florida Institute of Technology, United States

**Intelligent Path Finding for Avatars in Massively Multiplayer Online Games [#15] .....61**

Dewan Ahmed and Shervin Shirmohammadi  
University of Ottawa, Canada

**AUTHOR INDEX**