VR+ Summer School 2017

Immersive Presence, Augmented Visualization and Advanced Interaction

June 18-23, 2017
Hotel Belvedere, Torre dell'Orso (Lecce), Italy

www.salentoavr.it/vr_summer_school

Computer Graphics and Animation
Augmented Reality
Virtual Reality
Games and Serious Games
Human-Computer Interaction

for further information: *vr-summerschool@unisalento.it*

EUROVR   UNIVERSITÀ DEL SALENTO   MIMOS   AVR Lab   AVR Med

Scientific Program

Monday 19th June		
9,00 – 9,15	Opening	
9,15 – 10,45	Lecture ROBERTO SCOPIGNO ISTI-CNR, Italy	Applications of VR/AR technologies to CH: issues and opportunities
10,45 – 11,00	Coffee break	
11,00 – 12,30	Lecture PATRIK BOURDOT CNRS/LIMSI, University Paris-Sud, France	Interacting with VAR technologies on CAD data: overview of approaches, new challenges and some recent results
12,30 – 13,00	Academic/young researchers	
	YUJIRO OKUYA CNRS/LIMSI, University Paris-Sud, France	Shape-based CAD deformation with haptic feedback in immersive platform
	RUI FILIPE ANTUNES BioISI, University of Lisbon, Portugal	Self-organizing population of historical characters in the reconstruction of medieval Mértola
13,00 – 14,30	Lunch	
14,30 – 17,00	Practical lecture FABRIZIO NUNNARI German Research Center for Artificial Intelligence (DFKI), Saarbrücken, Germany	Fast prototyping of interactive 3D applications with Blender

Tuesday 20th June		
9,00 – 10,30	Lecture EMANUELE FRONTONI Università Politecnica delle Marche, Italy	Augmented Reality and Virtual Reality for Digital Cultural Heritage: a review
10,30 – 11,00	Coffee break	
11,00 – 12,30	Lecture JAUME SEGURA GARCIA Universitat de València, Spain	Virtual acoustics applications for existing and non-existing cultural heritage buildings
12,30 – 13,00	Academic/young researchers	
	MARKUS WALLMYR Mälardalen University, Sweden	Delivering new means for interaction with operators, supporting the increased information exchange in industry 4.0
	LYUBA ALBOUL Centre for Automation and Robotics Research, Sheffield Hallam University, UK	Merging realities in space and time
13,00 – 14,30	Lunch	
14,30 – 17,00	Practical lecture PAOLO SERNANI Università Politecnica delle Marche, Italy	Unity3D: configuring an AR application

Wednesday 21st June		
9,00 – 10,30	Lecture VINCENZO FERRARI Università di Pisa, Italy	Introduction to machine vision and applications in surgery
10,30 – 11,00	Coffee break	
11,00 – 12,30	Lecture LUCIO DE PAOLIS Università del Salento, Italy	Augmented Reality in surgery
12,30 – 13,00	Academic/young researchers	
	CHIARA INDRACCOLO Università del Salento, Italy	Use of Myo for a touchless interaction with 3D models in Augmented Reality applications
	SALVATORE MUSCATELLO Università del Salento, Italy	Augmented visualization and touchless interaction in heart surgery
13,00 – 14,30	Lunch	
14,30 – 19,00	Canoe excursion to the Alimini Lakes	

Thursday 22nd June		
9,00 – 10,30	Lecture MONICA BORDEGONI Politecnico di Milano, Italy	Multisensory interactions
10,30 – 11,00	Coffee break	
11,00 – 12,30	Lecture VITOANTONIO BEVILACQUA Politecnico di Bari, Italy	3D vs 2D Medical Images Framework for early diagnosis, optimized prognosis and substainable therapy
12,30 – 13,00	Academic/young researchers	
	GIANPAOLO D'ERRICO CONCETTA BOTRUGNO Università del Salento, Italy	Augmented Reality and Drones in Archaeology: integration between Wikitude SDK and DJI Mobile SDK for the development of location-based AR applications
13,00 – 14,30	Lunch	
14,30 – 19,00	Guided visit of Zinzulusa Caves	

VR+ Summer School 2017

Friday 23rd June		
9,00 – 10,30	Lecture GIUSEPPE CERAUDO VERONICA FERRARI Università del Salento, Italy	Archaeologists Drone on: New Technology in Archaeology
10,30 – 11,00	Coffee break	
	Academic/young researchers	
11,00 – 11,30	VALERIO DE LUCA Università del Salento, Italy	Polygon detection in technical drawing boards
	AFONSO GONÇALVES Polo Científico e Tecnológico da Madeira, Funchal	KAVE: a Kinect based open-source Unity plugin for CAVE automatic virtual environments – multi-display capabilities with motion parallax support made easy
11,30 – 12,30	Final test	
12,30 – 13,00	Closing	
13,00 – 14,30	Lunch	

Social Event

Sunday 18th June – **Welcome cocktail**
To welcome the participants at the school venue, a special cocktail will be offered to all attendants in the wonderful atmosphere of the Hotel Belvedere.

Tuesday 20th June – **Pizzica dance show**
Pizzica is a popular Italian folk dance, originally from the Salento peninsula and later spreading throughout all the Puglia and Calabria regions and eastern Basilicata. The traditional pizzica is danced while embracing a partner. This hug need not necessarily involve two individuals of opposite sexes, and often two women can be seen dancing together.

Wednesday 21st June – **Canoe excursion to the Alimini Lakes**
The Alimini Lakes are a natural paradise, unique in Salento, for flora and fauna lovers. During navigation, you immerse yourself in an uncontaminated and unique world; In this context is the nature that speaks. Between the singing of birds and inebriating scents of the rich vegetation here you can admire the beautiful creeks that surround the lake and the beaches that are absolutely unattainable from the ground.

Thursday 22nd June – **Guided visit of Zinzulusa Caves**
Just few kilometers north of Castro, there are the Zinzulusa Caves, the most famous karst cave along the Apulian coastline and considered to be one of the most important examples in Italy. The name comes from the word zinzuli, meaning rags. In fact the extensive collection of stalactites and stalagmites that fill this cave look like rags hanging from the ceiling.

Venue
The VR Summer School will be held at the Hotel Belvedere in Torre dell'Orso (Melendugno), Lecce - Italy.