



## **Unmanned Autonomous Systems**

**A Special Track of the**

**10th International Symposium on Visual Computing (ISVC14)**

**<http://www.isvc.net>**

**December 8-10, 2014**

**Las Vegas, Nevada, USA**

### **Scope:**

Unmanned autonomous systems have been receiving significant interest in recent years. This area of research spans a large number of disciplines, with topics ranging from mathematical and computational modeling of sensor data and autonomous behaviors, to improving navigation and control of autonomous systems, to the social aspects of human-machine co-presence. The underlying premise of this field is the design and implementation of agents with a high level of self-sufficiency to operate reliably and efficiently in the air, on the ground, or above/under water. This special session welcomes papers from robotics, computer vision, artificial intelligence, simulation and visualization communities that explore techniques and applications pertaining to the design, implementation, evaluation, and integration of autonomous agents and systems.

### **Topics:**

The topics of interest include but are not limited to the following areas:

- Autonomous Robotics
- Autonomous Navigation
- Tele-presence and Co-presence Autonomous Agents
- Industrial Applications of Autonomous Systems
- Medical Applications of Autonomous Systems
- Domestic Autonomous Systems
- Unmanned Autonomous Aerial, Ground, and Amphibious Vehicles
- Learning for Autonomy
- Sensory Data Modeling and Fusion for Autonomy
- Behavioral Modeling for Autonomy
- Human Trust of Autonomous Agents and Applications
- Graceful Failing of Autonomous Systems
- Energy Preservation and Foraging for Autonomous Applications

## Paper Submission Procedure:

Papers submitted to ISVC 2014 Special Track must not have been previously published and must not be currently under consideration for publication elsewhere. Manuscripts should be submitted in camera-ready format and should not exceed **12 pages**, including figures and tables (see <http://www.isvc.net> for details). All papers accepted will appear in the symposium proceedings which will be published by **Springer-Verlag** in the **Lecture Notes in Computer Science (LNCS)** series.



## Important Dates:

<b>Paper submissions</b>	August 23, 2014
<b>Notification of acceptance</b>	October 7, 2014
<b>Final camera ready paper</b>	October 31, 2014
<b>Advance Registration</b>	October 31, 2014
<b>ISVC14 Symposium</b>	December 8-10, 2014

## Organizers:

**Bebis George**, University of Nevada, Reno, USA, [bebis@cse.unr.edu](mailto:bebis@cse.unr.edu)  
**Nicolescu Mircea**, University of Nevada, Reno, USA, [mircea@cse.unr.edu](mailto:mircea@cse.unr.edu)  
**Bourbakis Nikolaos**, Wright State University, USA, [bourbaki@cs.wright.edu](mailto:bourbaki@cs.wright.edu)  
**Tavakkoli Alireza**, University of Houston, Victoria, USA, [TavakkoliA@uhv.edu](mailto:TavakkoliA@uhv.edu)