



<http://is3c2014.ncuteecs.org>

**Special Session Call for Papers  
International Symposium on Computer, Consumer and  
Control, 2014**

**Special Session organizer:** Prof. Juhng-Perng Su

**Session name:** *Machine Vision and Motion Control*

**Introduction/ Call for papers**

Machine vision has received a great deal of attention from researchers due to its potential in a variety of applications. Specifically, machine vision plays a key role in motion control including robot motion and collision avoidance control etc. From a geometric point of view, the position and orientation of a rigid body moving in a three-dimensional space can be estimated by reconstruction of its 3D model from two-dimensional images. This is particularly important for a robot to interact with the moving objects in its working space. In addition, the Simultaneous Localization And Mapping (SLAM) problems for robots exploring in an unknown environment is also greatly related to robot vision. Typical applications including medical examination and surgery, inspection or monitoring facilities in dangerous area, surveillance etc., unavoidably get machine vision and motion control involved to a certain extent.

Many researchers in relative fields have made great efforts and contributions to machine vision and have laid the groundwork for further research in this important field. Specifically, some impressive successful applications have given impetus to boom up research in this field, recently. This special session aims to provide a forum for researchers and practitioners on this important area to exchange new ideas, innovative thinking, perspectives, and applications on machine vision and motion control. Prospective authors are cordially invited to submit their original papers to the Special Session.

**Indicative Topics/Areas**

The topics of interest include, but are not limited to

- Computer Vision

- Image Processing
- Motion Control
- Multiple View Geometry
- Robot Motion and Control
- Robotics and Mechatronics
- Learning Control
- Other Machine or Robot Vision and Control Applications

Prospective contributors are invited to submit their paper to Prof. Su by email [sujp@mail.ndhu.edu.tw](mailto:sujp@mail.ndhu.edu.tw). All presented papers will be published in the Proceedings and the excellent papers will be recommended for publication in the special issue of SCI Journal.