

# **2013 IEEE Conference on Cybernetics and Intelligent Systems**

**(CIS 2013)**

**Manila, Philippines  
12 – 15 November 2013**



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## Technical Program

<b>Session</b>	TuB2: (CIS) Robotic and Hybrid Systems
<b>Date/Time</b>	Tuesday, 12 November 2013 / 10:40 – 12:20 hrs
<b>Session Chair</b>	Oliver Weede
<b>Session Co-chair</b>	Miaolong Yuan

- ▶ TuB2.1 10:40 – 11:00  
**A Hardware-Accelerated Reduced Dimensionality Multi-Prototype Learning and Recognition System with Complementary Classifiers**  
*Indra Bagus Wicaksono, Fengwei An and Hans Jürgen Mattausch* ""3
- ▶ TuB2.2 11:00 – 11:20  
**An Intuitive and Efficient Switching Particle Filter for Real-Time Vision-Based Localization**  
*Bo Tian, Chee-Meng Chew, Huajin Tang and Miaolong Yuan* ""9
- ▶ TuB2.3 11:20 – 11:40  
**Knowledge-Based Planning of Port Positions for Minimally Invasive Surgery**  
*O. Weede, J. Wünscher, H. Kenngott, B-P. Müller-Stich and H. Wörn* ""34
- ▶ TuB2.4 11:40 – 12:00  
**People Detection in Heavy Machines Applications**  
*M. Bui, V. Frémont, D. Boukerroui and P. Letort* ""3:
- ▶ TuB2.5 12:00 – 12:20  
**Moving Objects Detection and Credal Boosting Based Recognition in Urban Environments**  
*Dingfu Zhou, Vincent Frémont and Benjamin Quost* ""46

<b>Session</b>	TuC2: (CIS) Scheduling, Intelligent Manufacturing and Complex Systems
<b>Date/Time</b>	Tuesday, 12 November 2013 / 15:40 – 17:00 hrs
<b>Session Chair</b>	Prospero Naval
<b>Session Co-chair</b>	Bhuvanewari Ramachandran

- ▶ TuC2.1 15:40 – 16:00  
**Permutation Flow Shop Scheduling with Dynamic Job Order Arrival**  
*Humyun Rahman, Ruhul Sarker and Daryl Essam* ""52
- ▶ TuC2.2 16:00 – 16:20  
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- ▶ TuC2.3 16:20 – 16:40  
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**Estimation of Ionic Contamination in Printed Circuit Boards from Shape and Color Features of Dendritic Patterns** ""6:  
*Helen S. Villanueva, Manolo G. Mena and Jr. Prospero C. Naval*

<b>Session</b>	WeA2: (CIS) Dynamic System Modeling and Intelligent Control
<b>Date/Time</b>	Wednesday, 13 November 2013 / 08:30 – 10:10 hrs
<b>Session Chair</b>	Branislav Rehak
<b>Session Co-chair</b>	Nguyen Huu Cong

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- ▶ WeA2.2 08:50 – 09:10  
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<b>Session Chair</b>	John-John Cabibihan Cabibihan
<b>Session Co-chair</b>	Miaolong Yuan

- ▶ WeB2.1 10:40 – 11:00  
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*Yongnan Jia and Long Wang* ""322
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*Jiali Yu, Miaolong Yuan and Huajin Tang* ""34:
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