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Place Room 308B
Chair(s) Pak Kwong Chan, Nanyang Technological University

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**Time**  
Wednesday, May 23, 2012 (14:30 - 16:00)

**Place**  
Room 300

**Chair(s)**  
Chien-Cheng Tseng, *National Kaohsiung First University of Science & Technology*  
Kai-Kuang Ma, *Nanyang Technological University*

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**14:30**

**C3L-A.1** 
**Digital Image Sharpening Using Fractional Derivative and Mach Band Effect**  
Su-Ling Lee, *Chung-Jung Christian University*

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**14:48**

**C3L-A.2** 
**Constant Time O(1) Contextual and Variational Contrast Enhancement with Integral Histogram**  
Yu-Wen Tsai, Fan-Chieh Cheng, Shanq-Jang Ruan, *National Taiwan University of Science and Technology*

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**15:06**

**C3L-A.3** 
**Image Co-Segmentation via Active Contours**  
Fanman Meng, Hongliang Li, Guanghui Liu, *University of Electronic Science and Technology of China*

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**15:24**

**C3L-A.4** 
**Effective Image Haze Removal Using Dark Channel Prior and Post-Processing**  
Soo-Chang Pei, Tzu-Yen Lee, *National Taiwan University*

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**15:42**

**C3L-A.5** 
**Edge-Preserving Image Decomposition Based on Guided Upper/Lower Envelops**  
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Chih-Tsung Shen, *Academia Sinica*

### C3L-B Low Power Communication/Signal Processing Systems

**Time**  
Wednesday, May 23, 2012 (14:30 - 16:00)

**Place**  
Room E1

**Chair(s)**  
Sau-Gee Chen, *National Chiao Tung University*  
Paul K. Ampadu, *Massachusetts Institute of Technology*

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**14:30**

**C3L-B.1** 
**A Low Power Hearing Aid Computing Platform Using Lightweight Processing Elements**  
Kuo-Chiang Chang, Yu-Wen Chen, Yu-Ting Kuo, Chih-Wei Liu, *National Chiao-Tung University*

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**C3L-B.2** 
**Design of a Low-Cost Low-Power Baseband-Processor for UHF RFID Tag with Asynchronous Design Technique**  
Dingguo Wei, Chun Zhang, Yan Cui, Hong Chen, Zhihua Wang, *Tsinghua University*

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**15:06**

**C3L-B.3** 
**A Low-Power MMSE MIMO Detector Using Dynamic Voltage Wordlength Scaling for 4x4 MIMO-OFDM Systems**  
Jaeseong Kim, Shingo Yoshizawa, Yoshikazu Miyanaga, *Hokkaido University*

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**C3L-B.4** 
**A 28μW Sub-Sampling Based Wake-Up Receiver with -70dBm Sensitivity for 915MHz ISM Band Applications**  
Shahaboddin Moazzeni, Glenn E. R. Cowan, *Concordia University*  
Mohamad Sawan, *Ecole Polytechnique de Montreal*

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**C3L-B.5** 
**A Low Complexity Speech Coder for Binaural Communication in Hearing Aids**  
Shuo-Wen Hsu, Tian-Sheuan Chang, *National Chiao-Tung University*
### C3L-C: Statistical and Blind Signal Processing

**Time:** Wednesday, May 23, 2012 (14:30 - 16:00)
**Place:** Room E2
**Chair(s):** Zhiping Lin, Nanyang Technological University; Weixing Zheng, University of Western Sydney

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**Place:** Room E3
**Chair(s):** Julio Georgiou, University of Cyprus

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Joos Vandewalle, *Katholieke Universiteit Leuven*

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Bernhard E. Boser, *University of California, Berkeley*

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Babak Ayazifar, *University of California, Berkeley*

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Scott Ambelang, Bharathwaj Muthuswamy, *Milwaukee School of Engineering*

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**Time**  
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**Place**  
Room 308A

**Chair(s)**  
Xinmiao Zhang, *Case Western Reserve University*  
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Jian-Fei Jiang, Wei-Guang Sheng, Zhi-gang Mao, Wei-feng He, *Shanghai Jiao Tong University*

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