

## **Yuan-Kai Wang**

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### **Education**

Ph.D. Computer Science and Information Engineering,  
National Central University, R.O.C. 1995.

### **Research Interests**

Intelligent video surveillance, face recognition, facial expression recognition, biometrics, embedded computer vision, optical character recognition, image processing, pattern recognition, medical image analysis

### **Selected Projects**

- 1.Vision-Based Intelligent Environment, 2004 ~ 2012, USD \$6,000,000.
- 2.Vision-Based Sleep Disorder Analysis, 2010 ~ 2013, USD \$70,000.
- 3.The Study of Embedded Camera, 2008 ~ 2011, USD \$160,000.
- 4.Face Recognition and Facial Expression Recognition, 2006 ~ 2009, USD \$100,000

### **Selected publication**

- 1.Genetic-based search for error-correcting graph isomorphism, IEEE Transactions on Systems, Man, and Cybernetics - Part B, 1997.
- 2.A randomized approach with geometric constraints to fingerprint verification, Pattern Recognition, 2000.
- 3.Marginal noise removal of document images, Pattern Recognition, 2002.
- 4.A Two-stage Bayesian Network Method for 3D Human Pose Estimation from Monocular Image Sequences, EURASIP Journal on Advances in Signal Processing, 2010.
- 5.A CUDA-enabled parallel algorithm for accelerating retinex, Journal of Real-Time Image Processing, 2012.
- 6.A Large Scale Video Surveillance System with Heterogeneous Information Fusion and Visualization for Wide Area Monitoring, IEEE International Conference on Intelligent Information Hiding and Multimedia Signal Processing, 2012.

### **Financial support for Ph.D. students**

[Stipend]

- 1.National Science Council (NSC) Scholarship for Ph.D : up to NT 12,000/month
- 2.Ministry of Education Teaching Excellent Project for Ph.D: up to NT 12,000/month  
(Teaching assistant, optional)
- 3.Fu Jen Catholic University International PhD student Scholarship: NT 10,000/mo

[Tuition]

- 1.The 1<sup>st</sup> and 2<sup>nd</sup> year tuition is waived (around NT 220.000).
- 2.The tuition will be free after the 3<sup>rd</sup> year of Ph.D program