

# Curriculum Vitae

## Dr. Chi-Hung Hwang

Researcher & Deputy Director General of Instrument Technology Research Center, National Applied Research Laboratories, Taiwan

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## Education

Ph. D., Power Mechanical Engineering, National Tsing Hua University, Taiwan, 1996.

## Research Interests

### ■ Photo-mechanics & Experimental Mechanics

1. Exploring the errors of Digital Image Correlation Method especial introduced by optics; focusing on the development of new Digital Image Correlation method with formatted lens configuration
2. Developing birefringence-hyperspectrum method for residual stress measurement
3. Developing residual stress measurement method for optical thin-film with Zernike Polynomials as fitting function especial for fine finished surface
4. Developing Amplitude Fluctuation Electronic Speckle Pattern Interferometry method for low frequency vibration
5. Other interesting, including fracture mechanics, thermal fracture and

### ■ Optomechatronics, instrumentation, system integration especial on inspection instruments

## Current position and professional experience

- 2009.08~ Secretary of IEEE Taipei Section Instrument and Measurement Society Chapter.
- 2013.01.01~ Research Fellow & Division Director, Applied Optics Division, Instrument Technology Research Center, National Applied Research Laboratories
- 2008.06 ~2012.12.31 Deputy Director General, Instrument Technology Research Center, National Applied Research Laboratories
- 2007.06 ~2008.08 Division Director, Instrumentation Engineering Division, Instrument Technology Research Center, National Applied Research Laboratories
- 2005.01~2007.06 Division Director, Planning and Promotion Division, Instrument Technology Research Center, National Applied Research Laboratories
- 2003.01~2005.01 Researcher & Chair, Planning Section, Precision Instrument Development Center, National Science Council
- 2002.05~2003.01 Associated Researcher & Chair, Planning Section, Precision Instrument Development Center, National Science Council
- 1996.10~2002.05 Associated Researcher, Remote Sensing Technology Section, Precision Instrument Research Center, National Science Council

## Committee Member at International Conference

- 2011-2014, TPC, IEEE I2MTC
- 2013, TPC, IEEE ICST 2013
- 2013, TPC, IEEE International Conference on Smart Instrumentation, Measurement and

- Applications, Member of the technical program committee, Kuala Lumpur, Malaysia
- 2013, TPC, The 1<sup>st</sup> International Conference of Materials and Mechanical Science
- 2013, International Steering Committee, 6<sup>th</sup> IEEE/International Conference on Advanced Infocomm Technology
- 2013, TPC, IEEE International Symposium on Medical Measurements and Applications
- 2012, Paper and Program Committee, Joint International Conference of The 2nd International Symposium on Experimental Mechanics, The 11th Asian Conference on Experimental Mechanics, 2012 Society for Experimental Mechanics Fall Conference and 7th International Symposium in Advanced Science and Technology in Experimental Mechanics
- 2012, Financial Chair, The 4<sup>th</sup> International Symposium on Microchemistry & Microsystems

### **Memberships of Professional Societies**

- IEEE, Senior Member
- SPIE, Regular Member
- SEM, Regular Member
- Taiwan Laser Application Association, Lifetime Honorable Member

### **Service at Professional Society and Government Committee**

- 2013.06- IEEE IMS TC18 “Environmental Measurements”, Technical Member
- 2013.01-2014.03 Guest Editor, AUSMT, Vol.4, No.3, 2014
- 2012.11- Editorial Board of Journal of Researches and Applications in Mechanical Engineering, Science and Engineering Publishing Company
- 2012 IEEE Member-Get-A-Member Recruiter Award, Sept,
- 2012 Active Director of Taiwan Delegation of I2MTC/  
Chairing Special Meeting with IMS Officers
- 2011-2012 Adjudicator of iNEMO Competition
- 2011- Taiwan Accreditation, Assessor, CNLA1554.
- 2009- Secretariat of IEEE Taipei Section Instrument and Measurement Society Chapter
- 2010 Adjudicator of 2010 NI GSD Entrepreneurship Competition host by NI
- 2009-2012 Adjudicator of i-One Instrument Technology Innovation Competition
- 2009-2012 Chair of i-One Instrument Technology Innovation Competition Working Group
- 2005-2006 Reviewer of “2006 The Research and Education Advancement Project on Precision Mechanical Engineering”, Ministry of Education Advisory Office.