



**International Conference on Arts, Culture, New  
Media, and Entertainment  
(EITA-New Media 2013) or (EITA-EITC 2013)**

**"New Media in Art, Technology, and Heritage"**

**Barry Lam Hall, College of EECS  
National Taiwan University  
Taipei, Republic of China (Taiwan)**

**Saturday-Sunday, November 23-24, 2013**

## **Program**

**(Draft as of 11/22/13)**

***Day 1 (Saturday, November 23, 2013)***

**11/23 (Sat) 8:00 am - 5:00 pm: Registration**

Room: BL-101, Barry Lam Hall

**11/23 (Sat) 9:00 am - 9:50 am: Opening Session**

Chair: **Dr. Sy-Yen Kuo**, Dean, College of Electrical Engineering and Computer Science,  
National Taiwan University

(台灣大學電資學院院長暨電機工程學系郭斯彥特聘教授)

Room: BL-101, Barry Lam Hall

**Welcome Remarks:**

**Dr. Pan-Chyr Yang**

President

National Taiwan University

(臺灣大學校長楊泮池博士)

<Invited>

**Parallel Sessions:**

**11/23 (Sat) 9:50 am - 11:10 am: Plenary Session (1):**

Chair: **Dr. Sy-Yen Kuo**, Dean, College of Electrical Engineering and Computer Science,  
National Taiwan University

(台灣大學電資學院院長暨電機工程學系郭斯彥特聘教授)

Room: BL-101, Barry Lam Hall

"New Waves at the National Palace Museum: From Applying Digital Technologies to Creating Digital Art"

**Ms. Ming-Chu Fung**

Director, National Palace Museum

Republic of China (Taiwan)

(國立故宮博物院馮明珠院長)

"How Art Schools May Improve upon Creative Industry"

**Dr. Yung-Cheng Hsieh**

President, National Taiwan University of Arts

(臺灣藝術大學校長謝顯丞教授)

### **11/23 (Sat) 11:10 am - 11:25 am: Break**

Room:

### **11/23 (Sat) 11:25 am – 12:45 pm: Plenary Session (2)**

Chair: **Dr. Sy-Yen Kuo**, Dean, College of Electrical Engineering and Computer Science, National Taiwan University

(台灣大學電資學院院長暨電機工程學系郭斯彥特聘教授)

Room: BL-101, Barry Lam Hall

"The Roles of University in a Creative and Cultural City"

**Dr. Feng-Tyan Lin**

Professor and Dean, College of Planning and Design

National Cheng Kung University

(成功大學都市計劃學系兼規劃與設計學院院長林峰田教授)

"Evolution to 5G Wireless for Personalized Cloud and Communications Services"

**Dr. Li-Chun Wang**

Distinguished Professor and Chairman, Department of Electrical and Computer Engineering  
National Chiao-Tung University

(交通大學電信工程研究所兼電機工程學系系主任王蒞君特聘教授)

### **11/23 (Sat) 12:45 pm - 2:15 pm: Lunch**

### **Parallel Sessions:**

#### **11/23 (Sat) 2:15 pm – 3:35 pm: Technical Session D1-W1-T1: Digital**

#### **Media, Culture, and Society**

Chair: **Dr. Jieh Hsiang**, Distinguished Professor in Computer Science and Director, Research Center for Digital Humanities, National Taiwan University

(台灣大學資訊工程學系暨數位典藏中心主任項潔特聘教授)

Room: BL-103, Barry Lam Hall

**Dr. Nien-Hsuan Fang**

Associate Professor, Department of Journalism

National Chenchi University

(政治大學新聞學系方念萱教授)

**Dr. Huichuan Liu**

Associate Professor, Department of Information and Communication  
CEO, Center for Cultural and Creative Industries  
Tamkang University  
(淡江大學資訊傳播學系兼文化創意產業中心執行長劉慧娟教授)

**Dr. Shun-Tzu Tsai**

Associate Professor, the Department of Information and Communications  
Shih Hsin University  
(世新大學資訊傳播學系蔡順慈教授)

**11/23 (Sat) 2:15 pm – 3:35 pm: Technical Session D1-W2-T1: Broadband and Wireless Computing, Network Technologies, Services and Applications**

Chair: **Dr. Li-Chun Wang**, Distinguished Professor and Chairman, Department of Electrical and Computer Engineering, National Chiao-Tung University  
(交通大學電信工程研究所兼電機工程學系系主任王蒞君特聘教授)

Room: BL-114, Barry Lam Hall

“Broadband Semiconductor Optical Amplifiers & Tunable Semiconductor Lasers”

**Dr. Ching-Fuh Lin**

Professor and Director, Innovative Photonics Advanced Research Center  
Graduate Institute of Photonics and Optoelectronics  
National Taiwan University  
(台灣大學光電工程學研究所所長暨電機工程學系林清富教授)

“Bidirectional Lightwave Transport Systems Based on Optical Free-Space Transmission Scheme”

**Dr. Hai-Han Lu**

Professor, National Taipei University of Technology, Institute of Electro-Optical Engineering  
National Taipei University of Technology  
(台北科技大學光電工程系呂海涵教授)

“GaN Nanostructures and Applications to Communications and Display”

**Dr. Pei-Cheng Ku**

Associate Professor, Department of Electrical Engineering & Computer Science  
The University of Michigan at Ann Arbor  
(密歇根大學安娜堡分校電機學系古培正教授)

**11/23 (Sat) 2:15 pm – 3:35 pm: Technical Session D1-W3-T1: New Media/Multimedia, Machine Learning, Web, and Entertainment Technology**

Chair: **Dr. I-Chen Wu**, Professor, Department of Computer Science and Director, Institute of Multimedia Engineering, National Chiao-Tung University  
(交通大學資訊工程系暨多媒體工程研究所所長吳毅成教授)

Room: BL-112, Barry Lam Hall

"Emotion Recognition from Multimedia Information"

**Dr. Chung-Hsien Wu**

Distinguished Professor, Department of Computer Science and Information Engineering  
Deputy Dean, College of Electrical Engineering and Computer Science

National Cheng Kung University  
(成功大學資訊工程學系兼電資學院副院長吳宗憲特聘教授)

“UbiTablet: A Portable Camera-Projector System to Transform Any Flat Surface into a Touchable Display”

**Dr. Jiung-Yao Huang**

Professor, Department of Computer Science and Information Engineering  
National Taipei University

(台北大學資訊工程學系黃俊堯教授)

"The Bridge between Art and Technology in Visual Media"

**Dr. Shih-Wei Sun**

Assistant Professor, Department of New Media Art  
Director, Ultra-Communication Vision Laboratory  
Taipei National University of the Arts

(臺北藝術大學新媒體藝術學系孫士韋教授)

**Dr. Sheng-Tzong Cheng**

Professor, Department of Computer Science and Information Engineering  
National Cheng-Kung University

(成功大學資訊工訊系鄭憲宗教授)

**11/23 (Sat) 2:15 pm – 3:35 pm: Technical Session D1-W4-T1: Ubi/Cloud Computing, HPC/Data Center, Cyber Security, and Digital Forensics**

Chair: **Dr. S. (Shyhtsun) Felix Wu**, Professor, Department of Computer Science, University of California, Davis

(加州大學戴維斯分校計算機科學系吳士駿教授)

Room: BL-113, Barry Lam Hall

“Event Knowledge-based Demand Profiling and Prediction for Cloud Application Performance Management”

**Dr. Yeali S. Sun**

Professor, Department of Information Management  
Chief Director, Computer and Information Networking Center  
National Taiwan University

(台灣大學資訊管理學系暨研究所兼台灣大學計算機及資訊網路中心主任孫雅麗教授)

**Dr. Deron Liang**

Director, Software Research Center  
Professor, Department of Computer Science and Information Engineering  
National Central University

(中央大學資訊工程系教授兼軟體研究中心主任梁德容教授)

“The Study of Efficient and Secure Roaming Payment Protocols with Delegation and Group Signatures”

**Dr. Chih-Hung Wang**

Associate Professor, Department of Computer Science and Information Engineering  
National Chiayi University

(嘉義大學資訊工程系王智弘教授)

“Secured Outsourcing of Frequent Itemset Mining to Cloud Environments”

**Dr. Hana Chih-Hua Tai**

Assistant Professor, Department of Computer Science and Information Engineering  
National Taipei University

(台北大學資訊工程學系戴志華教授)

**11/23 (Sat) 3:35 pm – 3:50 pm: Break**

Room:

**Parallel Sessions:**

**11/23 (Sat) 3:50 pm – 5:10 pm : Technical Session D1-W1-T2: Digital Media, Culture, and Society**

Chair: **Dr. Yuh-wen Wang**, Associate Professor, Graduate Institute of Musicology, National Taiwan University

(臺灣大學音樂學研究所王育雯教授)

Room: BL-103, Barry Lam Hall

“Machinima 實時計算機造-動畫影片”

**Dr. Shuengit Natasha Chow**

Visiting Associate Professor, Graduate Institute of Animation and Film Art  
Tainan National University of the Arts

(臺南藝術大學動畫藝術與影像美學研究所周旋捷教授)

“電影的奇觀想像 - 奇觀電影和 S3D 立體電影”

**Dr. Chi-Fang Ting**

Assistant Professor, Department of Motion Picture  
National Taiwan University of Arts

(臺灣藝術大學電影學系丁析方教授)

**Dr. Hao-Hsiu Chiu**

Assistant Professor, Department of Architecture  
Tunghai University

(東海大學建築系邱浩修教授)

**Dr. Jia-haur Liang**

Assistant Professor, Department of Crafts and Design  
National Taiwan University of Arts

(臺灣藝術大學工藝設計學系梁家豪教授)

“Visualization of Dance Movements by Thermography and Fluid Simulation”

**Dr. Chi-Min Hsieh**

Assistant Professor, Institute of Applied Arts  
National Chiao Tung University

(交通大學應用藝術研究所謝啟民教授)

**11/23 (Sat) 3:50 pm – 5:10 pm: Technical Session D1-W2-T2: Broadband and Wireless Computing, Network Technologies, Services and Applications**

Chair: **Dr. Pei-Cheng Ku**, Associate Professor, Department of Electrical Engineering & Computer Science, The University of Michigan at Ann Arbor

(密歇根大學安娜堡分校電機系古培正教授)

Room: BL-114, Barry Lam Hall

“Reconfigurable Multi-Wavelength Optical Cross-Connect using Fiber Bragg Gratings”

**Dr. Shien-Kuei Liaw**

Distinguished Professor Chair of Optoelectronic Technology Center

National Taiwan University of Science and Technology

(台灣科技大學光電科技中心主任廖顯奎特聘教授)

“Optical Communication Researches at NCTU”

**Dr. Yinchieh Lai**

Professor, Department of Photonics and Institute of Electro-Optical Engineering

National Chiao Tung University

(交通大學光電系賴暎杰教授)

“Compact Multi-band Bandpass Filters in Wireless Communication Systems”

**Dr. Clark Shih-Kun Liu**

Associate Professor, Institute of Photonics and Communications

National Kaohsiung University of Applied Sciences

(高雄應用科技大學光電與通訊研究所劉世崑教授)

**11/23 (Sat) 3:50 pm – 5:10 pm : Technical Session D1-W3-T2: New Media/Multimedia, Machine Learning, Web, and Entertainment Technology**

Chair: **Dr. Sheng-Tzong Cheng**, Professor, Department of Computer Science and Information Engineering, National Cheng-Kung University

(成功大學資訊工訊學系鄭憲宗教授)

Room: BL-112, Barry Lam Hall

"Generic Job-Level Search and Its Applications"

**Dr. I-Chen Wu**

Professor, Department of Computer Science and

Director, Institute of Multimedia Engineering

National Chiao-Tung University

(交通大學資訊工程系暨多媒體工程研究所所長吳毅成教授)

“Smart Eye Masks for Sweet Sleep”

**Dr. Sheng-Fu Liang**

Associate Professor, Department of Computer Science and Information Engineering

National Cheng Kung University

(成功大學資訊工程學系梁勝富教授)

**Dr. Shih-Ching Yeh**

Assistant Professor, Department of Computer Science and Information Engineering

National Central University

(中央大學資訊工程學系葉士青教授)

“Toward a theoretical framework for the form and content of animation in digital age”

**Dr. Yen-Jung Chang**

Assistant Professor, Graduate Institute of Animation and Multimedia Design

National University of Tainan  
(臺南大學動畫媒體設計研究所張晏榕教授)

“CUT: Community Detection and Tracking in Dynamic Social Networks”

**Dr. Jen-Wei (Fred) Huang**

Assistant Professor, Department of of Electrical Engineering  
National Cheng Kung University  
(成功大學電機工程學系黃仁暉教授)

**11/23 (Sat) 3:50 pm – 5:10 pm : Technical Session D1-W4-T2: Ubi/Cloud Computing, HPC/Data Center, Cyber Security, and Digital Forensics**

Chair: **Dr. Deron Liang**, Director, Software Research Center and Professor, Department of Computer Science and Information Engineering, National Central University  
(中央大學資訊工程系教授兼軟體研究中心主任梁德容教授)

Room: BL-113, Barry Lam Hall

“Balancing Data Utility and Privacy Protection in the Socially Aware Data Cloud”

**Dr. Yuh-Jong Hu**

Professor, Department of Computer Science  
National Chengchi University  
(政治大學資訊科學系胡毓忠教授)

“Clock Skew based Client Device Identification by Cloud Servers”

**Dr. Wei-Chung Teng**

Assistant Professor, Department of Computer Science and Information Engineering  
National Taiwan University of Science and Technology  
(台灣科技大學資訊工程系鄧惟中教授)

“Implementation of Software Defined Network in an Education Cloud”

**Dr. Mon-Yen Luo**

Assistant Professor, Department of Computer Science and Information Engineering  
National Kaohsiung University of Applied Sciences  
(高雄應用科技大學資訊工程系羅孟彥教授)

“Social media mining for trending topic analysis”

**Dr. Jenq-Haur Wang**

Assistant Professor, Department of Computer Science and Information Engineering  
National Taipei University of Technology  
(台北科技大學資訊工程系王正豪教授)

**Day 2 (Sunday, November 24, 2013):**

**11/24 (Sun) 9:00 am - 12:45 pm: Registration**

Room:

**11/24 (Sun) 9:00 am - 9:50 am: Special Presentations: Digital Media, Culture, and Society**

Chair: **Dr. Shuengit Natasha Chow**, Visiting Associate Professor, Graduate Institute of Animation and Film Art, Tainan National University of the Arts

(臺南藝術大學動畫藝術與影像美學研究所周旋捷教授)

Room: BL-103, Barry Lam Hall

“The First-ever Social Gaming Platform for a MOOC”

**Dr. Ping-Cheng (Benson) Yeh**

Director, NTU MOOC

Associate Professor, EE Department/GICE

Associate Director, Center for Teaching and Learning Development

National Taiwan University

**Parallel Sessions:**

**11/24 (Sun) 9:50 am – 11:10 am: Technical Session D2-W1-T1: Digital Media, Culture, and Society**

Chair: **Dr. Jie Chi Yang**, Head and Professor, Graduate Institute of Network Learning Technology, Department of Computer Science and Information Engineering, National Central University

(中央大學資訊工程學系暨網路學習科技研究所所長楊接期教授)

Room: BL-103, Barry Lam Hall

“Personalized Interactive Storytelling in 3D Environments”

**Dr. Tsai-Yen Li**

Professor, Department of Computer Science and

Secretary General, Office of Secretariat

National Chengchi University

(政治大學資訊科學系暨秘書處主任秘書李蔡彥教授)

“Developing Digital Collections in a Cultural Context”

**Dr. Kuang-hua Chen**

Professor, Department of Library and Information Science

Associate University Librarian, University Library

National Taiwan University

(臺灣大學圖書資訊學系暨臺灣大學圖書館副館長陳光華教授)

**Dr. Jason S. Chang**

Professor, Department of Computer Science

National Tsing Hua University

(清華大學資訊工程學系張俊盛教授)

“3D Reconstructions and Its Applications in Cultural Heritage Preservation”

**Dr. Chia-Yen Chen**

Assistant Professor, Department of Computer Science and Information Engineering,  
National University of Kaohsiung

(高雄大學資訊工程學系陳佳妍教授)

**11/24 (Sun) 9:50 pm – 11:10 am: Technical Session D2-W2-T1: Broadband and Wireless Computing, Network Technologies, Services and Applications**

Chair: **Dr. Li-Chun Wang**, Distinguished Professor and Chairman, Department of Electrical and Computer Engineering, National Chiao-Tung University

(交通大學電信工程研究所兼電機工程學系系主任王蒞君特聘教授)

Room: BL-114, Barry Lam Hall

“Cooperative Video Streaming over the Hybrid VANET: Perspectives and Challenges”

**Dr. Chung-Ming Huang**

Distinguished Professor, Department of Computer Science and Information Engineering  
National Cheng Kung University

(成功大學資訊工程系黃崇明特聘教授)

“Energy-Aware and Delay-Bounded Transmission Scheduling in Mobile Devices”

**Dr. Jenn-Wei Lin**

Professor, Department of Computer Science and Information Engineering  
Fu Jen Catholic University

(輔仁大學資訊工程學系林振緯教授)

“Telematics Enabled Maritime Intelligent Transportation System-Progress and Prospects in Taiwan Waters”

**Dr. Shwu-Jing Chang**

Associate Professor and Chair, Department of Communications, Navigation and Control  
Engineering

National Taiwan Ocean University

(台灣海洋大學通訊與導航工程學系主任張淑淨教授)

“Cognitive Radio Platform for Mobile Healthcare”

**Dr. Sao-Jie Chen**

Professor, Department of Electrical Engineering  
National Taiwan University

(台灣大學電機工程學系陳少傑教授)

**11/24 (Sun) 9:50 pm – 11:10 am: Technical Session D2-W3-T1: New Media/Multimedia, Machine Learning, Web, and Entertainment Technology**

Chair: **Dr. Sheng-Tzong Cheng**, Professor, Department of Computer Science and Information Engineering, National Cheng-Kung University

(成功大學資訊工訊系鄭憲宗教授)

Room: BL-112, Barry Lam Hall

“3D Video Processing with Disparity Optimization”

**Dr. Shang-Hong Lai**

Director, Computer and Communication Center

Professor, Department of Computer Science  
National Tsing Hua University  
(清華大學資訊工程系賴尚宏教授)

“Dark Chesses”

**Dr. Shi-Jim Yen**

Professor, Department of Computer Science and Information Engineering  
National Dong Hwa University  
(東華大學資訊工程學系教授顏士淨教授)

**Dr. Shing-Min Liu**

Associate Professor, Department of Computer Science and Information Engineering  
National Chung Cheng University  
(中正大學資訊工程學系暨研究所劉興民教授)

**Dr. Hsing-Kuo Kenneth Pao**

Associate Professor, Department of Computer Science and Information Engineering  
National Taiwan University of Science & Technology.  
(臺灣科技大學資訊工程系鮑興國教授)

“Legitimate Users Identification for Facebook Account”

**Dr. Yuh-Jye Lee**

Associate Professor, Department of Computer Science and Information Engineering  
National Taiwan University of Science and Technology  
(台灣科技大學資訊工程系李育杰教授)

**11/24 (Sun) 9:50 pm – 11:10 am: Technical Session D2-W4-T1: Ubi/Cloud Computing, HPC/Data Center, Cyber Security, and Digital Forensics**

Chair: **Dr. S. (Shyhtsun) Felix Wu**, Professor, Department of Computer Science, University of California, Davis

(加州大學戴維斯分校計算機科學系吳士駿教授)

Room: BL-113, Barry Lam Hall

**Dr. Gwan-Hwan Hwang**

Professor and Chair, Department of Computer Science and Information Engineering  
National Taiwan Normal University.  
(台灣師範大學資訊工程學系兼系主任黃冠寰教授)

“Case Study of Building a Data Center: A Integrated and Vertical Approach”

**Dr. Shih-Wei Liao**

Associate Professor, Department of Computer Science and Information Engineering  
National Taiwan University  
(臺灣大學資訊工程學系廖世偉教授)

“Grid, Cloud and Big Data: Experience in Application of High Energy Physics Research”

**Jhen-Wei Huang**

Grid Computing Team Lead, Academia Sinica Grid Computing Centre  
Academia Sinica  
(中央研究院)

“Bugs as a Backdoor(BaaB)”

**Dr. Shih-Kun Huang**

Associate Professor, Information Technology Service Center

National Chiao Tung University

(交通大學資訊技術服務中心黃世昆教授)

**11/24 (Sun) 11:10 am – 11:25 am: Break**

Room:

**Parallel Sessions:**

**11/24 (Sun) 11:25 am – 12:45 pm: Technical Session D2-W1-T2: Digital Media, Culture, and Society**

Chair: **Dr. Yuh-wen Wang**, Associate Professor, Graduate Institute of Musicology, National Taiwan University

(臺灣大學音樂學研究所王育雯教授)

Room: BL-103, Barry Lam Hall

“Digital Games and Language Learning”

**Dr. Jie Chi Yang**

Head, Graduate Institute of Network Learning Technology

Professor, Department of Computer Science and Information Engineering

National Central University

(中央大學資訊工程學系暨網路學習科技研究所所長楊接期教授)

“Interaction Beyond the Individual: An Overview of User-Centered Collaborative and Social Computing Research”

**Dr. Hao-Chuan Wang**

Assistant Professor, Department of Computer Science

National Tsing Hua University

(清華大學資訊工程學系王浩全教授)

“Detecting Emotions from Short Messages for Personal Ambient Creation”

**Dr. Lun-Wei Ku**

Assistant Research Fellow, Institute of Information Science

Academia Sinica

(中央研究院資訊科學研究所古倫維博士)

“Knowledge Integration for Improving Performance in Large Vocabulary Continuous Speech Recognition”

**Dr. Chen-Yu Chiang**

Assistant Professor, Speech and Multimedia Signal Processing Laboratory

Department of Communication Engineering

National Taipei University

(台北大學通訊工程學系江振宇教授)

**11/24 (Sun) 11:25 am – 12:45 pm: Technical Session D2-W2-T2: Broadband and Wireless Computing, Network Technologies, Services and Applications**

Chair: **Dr. Pei-Cheng Ku**, Associate Professor, Department of Electrical Engineering & Computer Science, The University of Michigan at Ann Arbor

(密歇根大學安娜堡分校電機系古培正教授)

Room: BL-114, Barry Lam Hall

“Energy-Efficient Downlink Resource Allocation for Mobile Devices in Wireless Systems”

**Dr. Ai-Chun Pang**

Director and Professor, Graduate Institute of Networking and Multimedia  
Professor, Department of Computer Science and Information Engineering  
National Taiwan University

(臺灣大學資訊工程學系兼資訊網路與多媒體研究所所長逢愛君教授)

“When P2P Meets SIP: A Globally Overlaid Hierarchical P2P-SIP Architecture”

**Dr. Huei-Wen Ferng**

Professor, Department of Computer Science and Information Engineering,  
National Taiwan University of Science and Technology

(台灣科技大學資工系馮輝文教授)

“Networked Sensing and Control for Pervasive Healthcare Applications: A Case Study on Chronic Obstructive Pulmonary Disease”

**Dr. Chih-Yu Wen**

Associate Professor, Department of Electrical Engineering  
National Chung Hsing University

(中興大學電機工程學系溫志煜教授)

“Effective Use of Small-Cell to Offload Mobile Data Traffic”

**Dr. Hung-Chin Jang**

Associate Professor, Department of Computer Science  
National Chengchi University

(政治大學資訊科學系張宏慶教授)

### **11/24 (Sun) 11:25 am – 12:45 pm : Technical Session D2-W3-T2: New Media/Multimedia, Machine Learning, Web, and Entertainment**

#### **Technology**

Chair: **Dr. Shang-Hong Lai**, Director, Computer and Communication Center and Professor,  
Department of Computer Science, National Tsing Hua University

(清華大學資訊工程系賴尚宏教授)

Room: BL-112, Barry Lam Hall

“Automatic Domain-Specific Sentiment Lexicon Construction”

**Dr. Hung-Yu Kao**

Associate Professor, Department of Computer Science and Information Engineering  
National Cheng Kung University

(成功大學資訊工程學系高宏宇教授)

"Size Does Matter: How Image Size Affects Aesthetic Perception?"

**Dr. Wei-Ta Chu**

Associate Professor, Department of Computer Science and Information Engineering  
National Chung Cheng University

(中正大學資訊工程系朱威達教授)

“The New Web Language: HTML 5”

**Dr. Garry Jyh-Chian Chang**

Associate Professor, Department of Computer Science & Information Engineering  
Chinese Culture University

(中國文化大學 資訊工程學系張志堅教授)

**Dr. Pu-Jen Cheng**

Assistant Professor, Department of Computer Science and Information Engineering  
National Taiwan University

(臺灣大學資訊工程學系暨資訊網路與多媒體研究所鄭卜壬教授)

**11/24 (Sun) 11:25 am – 12:45 pm : Technical Session D2-W4-T2:  
Ubi/Cloud Computing, HPC/Data Center, Cyber Security, and Digital  
Forensics**

Chair: **Dr. Deron Liang**, Director, Software Research Center and Professor, Department of  
Computer Science and Information Engineering, National Central University

(中央大學資訊工程學系教授兼軟體研究中心主任梁德容教授)

Room: BL-113, Barry Lam Hall

**Dr. James Ching-Nung Yang**

Professor, Department of Computer Science and Information Engineering  
National Dong Hwa University

(東華大學資訊工程學系楊慶隆教授)

“Fully Exploiting Modification Directions Data Hiding”

**Dr. Wen-Chung Kuo**

Associate Professor, Department of Computer Science and Information Engineering  
National Yunlin University of Science & Technology

(雲林科技大學資訊工程學系郭文中教授)

“Programming in the Cloud Era”

**Dr. Yuan-Liang Tang**

Associate Professor, Department of Information Management  
Chaoyang University of Technology,

(朝陽科技大學資訊管理系唐元亮教授)

“GamingAnywhere: An Open Cloud Gaming System”

**Dr. Chun-Ying Huang**

Associate Professor, Department of Computer Science and Engineering  
National Taiwan Ocean University

(臺灣海洋大學資訊工程學系黃俊穎教授)

**11/24 (Sun) 12:45 pm - 2:15 pm: Lunch**

**Parallel Sessions:**

**11/24 (Sun) 2:15 pm – 3:35 pm: Technical Session D2-W1-T3: : Digital  
Media, Culture, and Society**

Chair: **Dr. Alvin Wen-Yu Su**, Professor, Department of Computer Science and Information  
Engineering, National Cheng-Kung University

(成功大學資訊工程學系蘇文鈺教授)

Room: BL-103, Barry Lam Hall

“Music and Language: To Acquire or To Learn”

**Dr. Heng-Yow Chen**

Professor, Department of Computer Science and Information Engineering  
National Chi-Nan University

(暨南大學資訊工程系/華語文教學/課程與科技研究所合聘陳恆佑教授)

“New Media, New Idea: Music Compositional Concepts Influenced by Modern Technologies”

**Dr. Chia-Lin Pan**

Associate Professor, Department of Music  
University of Taipei

(臺北市立大學音樂學系潘家琳教授)

“Sound recording technology and its impacts on music making and listening”

**Dr. Szu-Wei Chen**

Adjunct Assistant Professor, Graduate Institute of Musicology  
National Taiwan University

(臺灣大學音樂學研究所陳峙維教授)

**11/24 (Sun) 2:15 pm – 3:35 pm: Technical Session D2-W2-T3: Broadband and Wireless Computing, Network Technologies, Services and Applications**

Chair: **Dr. Li-Chun Wang**, Distinguished Professor and Chairman, Department of Electrical and Computer Engineering, National Chiao-Tung University

(交通大學電信工程研究所兼電機工程學系系主任王蒞君特聘教授)

Room: BL-114, Barry Lam Hall

“Resource Management and Interference Coordination for LTE/LTE-A Network”

**Dr. Kai-Ten Feng**

Professor, Department of Electrical and Computer Engineering  
National Chiao Tung University

(交通大學電機學系方凱田教授)

“A Mixed-Signal Precoding Processor for Millimeter Wave MIMO Systems”

**Dr. Yuan-Hao Huang**

Associate Professor, Department of Electrical Engineering and Institute of Communications Engineering

National Tsing Hua University

(清華大學電機工程學系黃元豪教授)

“A Machine-to-Machine (M2M) Communication Platform for Internet of Things (IoT)”

**Dr. Chun-Ting Chou**

Assistant Professor, Department of Electrical Engineering  
National Taiwan University

(台灣大學電機工程學系周俊廷教授)

“Ultra-Low Power Wake-Up-Receiver in Energy Efficient Wireless Sensor Networks”

**Dr. Kuang-Wei Cheng**

Assistant Professor, Department of Electrical Engineering

National Cheng Kung University  
(成功大學電機工程學系鄭光偉教授)

**11/24 (Sun) 2:15 pm – 3:35 pm: Technical Session D2-W3-T3: New Media/Multimedia, Machine Learning, Web, and Entertainment Technology**

Chair: **Dr. Sheng-Tzong Cheng**, Professor, Department of Computer Science and Information Engineering, National Cheng-Kung University

(成功大學資訊工訊系鄭憲宗教授)

Room: BL-112, Barry Lam Hall

“Garment Detectives: Discovering Clothes and Its Genre in Consumer Photos”

**Dr. Kai-Lung Hua**

Assistant Professor, Department of Computer Science and Information Engineering  
National Taiwan University of Science and Technology

(台灣科技大學資訊工程學系花凱龍教授)

“Introduction to Iris Recognition”

**Dr. Yung-Hui Li**

Assistant Professor, Department of Computer Science and information Engineering  
National Central University

(中央大學資訊工程學系栗永徽教授)

“Assisting Digital Content Creation: from a Computer Graphics Perspective”

**Dr. Wen-Chieh (Steve) Lin**

Associate Professor, Department of Computer Science  
National Chiao Tung University

(交通大學資訊工程學系林文杰教授)

**11/24 (Sun) 2:15 pm – 3:35 pm: Technical Session D2-W4-T3: Ubi/Cloud Computing, HPC/Data Center, Cyber Security, and Digital Forensics**

Chair: **Dr. S. (Shyhtsun) Felix Wu**, Professor, Department of Computer Science, University of California, Davis

(加州大學戴維斯分校計算機科學系吳士駿教授)

Room: BL-113, Barry Lam Hall

“Optimally Placing Replicas in Chord Peer-to-Peer Networks”

**Dr. Jichiang Tsai**

Associate Professor, Department of Electrical Engineering  
National Chung Hsing University

(中興大學電機工程學系蔡智強教授)

“Mutual Assistant Networks (MAN): Connecting People and Machines”

**Dr. Ren-Song Ko**

Associate Professor, Department of Computer Science and Information Engineering  
National Chung Cheng University

(中正大學資訊工程學系柯仁松教授)

“Near-Duplicate Subsequence Matching for Video Streams”

**Dr. Chih-Yi Chiu**

Associate Professor, Department of Computer Science and Information Engineering  
National Chiayi University

(嘉義大學資訊工程系邱志義教授)

“Reliable Transmissions in Large Scale Sensor Networks for Intensive-Data Medical Monitoring Applications”

**Dr. Chinyang Henry Tseng**

Assistant Professor, Department of Computer Science and Information Engineering  
National Taipei University

(臺北大學資訊工程系曾俊元教授)

**11/24 (Sun) 3:35 pm – 3:50 pm: Break**

Room:

**Parallel Sessions:**

**11/24 (Sun) 3:50 pm – 5:10 pm: Technical Session D2-W1-T4: Digital Media, Culture, and Society**

Chair: **Dr. Yuh-wen Wang**, Associate Professor, Graduate Institute of Musicology, National Taiwan University

(臺灣大學音樂學研究所王育雯教授)

Room: BL-103, Barry Lam Hall

“Separation, Improvisation and Creation Using Signal Processing Tools”

**Dr. Alvin Wen-Yu Su**

Professor, Department of Computer Science and Information Engineering  
National Cheng-Kung University

(成功大學資訊工程學系蘇文鈺教授)

“New interface Designed for Innovative Musical Expression”

**Dr. Yu-chung Tseng**

Associate Professor of Computer Music Composition, Institute of Music  
National Chiao Tung University

(交通大學音樂研究所曾毓忠教授)

“Principles of Designing Interactive Electroacoustic Music System”

**Dr. Chien-Wen Cheng**

Assistant Professor, Graduate Institute of Interactive Media Design  
National Taipei University of Technology

(台北科技大學互動媒體設計研究所鄭建文教授)

“Emotion-based Music Analysis and Beyond”

**Dr. Yi-Hsuan (Eric) Yang**

Assistant Research Fellow, Music and Audio Computing (MAC) Lab  
Research Center for IT Innovation (CITI)  
Academia Sinica

(中央研究院資訊科技創新研究中心楊奕軒博士)

**11/24 (Sun) 3:50 pm – 5:10 pm: Technical Session D2-W2-T4: Broadband and Wireless Computing, Network Technologies, Services and Applications**

Chair: **Dr. Pei-Cheng Ku**, Associate Professor, Department of Electrical Engineering & Computer Science, The University of Michigan at Ann Arbor

(密歇根大學安娜堡分校電機系古培正教授)

Room: BL-114, Barry Lam Hall

**Dr. Ping-Cheng Yeh**

Associate Professor, Department of Electrical Engineering  
National Taiwan University

(台灣大學電機工程學系葉丙成教授)

“Geographic Routing with Enhanced Local Information for Wireless Networks”

**Dr. Jung-Tsung Tsai**

Associate Professor, Department of Computer Science and Information Engineering  
National Taiwan Normal University

(台灣師範大學資訊工程學系蔡榮宗教授)

“Packet Scheduling for Multiuser MIMO Systems”

**Dr. Chih-Wei Huang**

Assistant Professor, Department of Communication Engineering  
National Central University

(中央大學通訊工程系黃志煒教授)

**11/24 (Sun) 3:50 pm – 5:10 pm: Technical Session D2-W3-T4: New Media/Multimedia, Machine Learning, Web, and Entertainment Technology**

Chair: **Dr. Jia-Yu (Tim) Pan**, Software Engineer, Google Inc.

(美國谷歌公司潘家煜博士)

Room: BL-112, Barry Lam Hall

“Mobile Collaborative Learning and Cognitive Style Grouping”

**Dr. Sherry Y. Chen**

Chair Professor, Graduate Institute of Network Learning Technology  
National Central University

(中央大學網路學習科技研究所陳攸華講座教授)

“Designing Tangible User Interfaces With Multitouch Mobile Devices”

**Dr. Neng-Hao (Jones) Yu**

Assistant Professor, Department of Computer Science  
National Chengchi University

(政治大學資訊科學系余能豪教授)

“An Example-based Approach for Face photo-sketch synthesis”

**Dr. Ching-Ting Tu**

Assistant Professor, Department of Computer Science and Information Engineering  
Tamkang University

(淡江大學資訊工程系涂瀟珽教授)

“NPR Illustrations of Natural Flows in Oriental Painting”

**Dr. Yu-Chi Lai**

Assistant Professor, Department of Computer Science and Information Engineering  
National Taiwan University of Science and Technology

(台灣科技大學資訊工程系賴祐吉教授)

**11/24 (Sun) 3:50 pm – 5:10 pm: Technical Session D2-W4-T4: Ubi/Cloud Computing, HPC/Data Center, Cyber Security, and Digital Forensics**

Chair: **Dr. Deron Liang**, Director, Software Research Center and Professor, Department of Computer Science and Information Engineering, National Central University

(中央大學資訊工程系教授兼軟體研究中心主任梁德容教授)

Room: BL-113, Barry Lam Hall

“On Design and Implementation of E-Invoice/E-Receipt Delivery Specification for B2C transactions in Physical Stores: Take Taiwan Uniform e-Invoice as Example”

**Dr. Shi-Cho Cha**

Associate Professor, Department of Information Management  
National Taiwan University of Science and Technology

(臺灣科技大學資訊管理系查士朝教授)

“EagleEye: Towards Mandatory Security Monitoring in Virtualized Datacenter Environment”

**Dr. Yu-Sung (Hank) Wu**

Assistant Professor, Department of Computer Science  
National Chiao-Tung University

(交通大學資訊工程系吳育松教授)

“Detecting and Patching Web Application Vulnerabilities”

**Dr. Fang Yu**

Assistant Professor, Department of Management Information System  
National Chengchi University

(政治大學資訊管理學系郁方教授)

**Dr. S. (Shyhtsun) Felix Wu**

Professor, Department of Computer Science  
University of California, Davis

(加州大學戴維斯分校計算機科學系吳士駿教授)