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
(臺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
(臺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顒丞教授)

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
(臺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
(臺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
Chair, Graduate Institute of Photonics and Optoelectronics and
Professor, Department of Electrical Engineering
National Taiwan University
(臺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
Distinguished Research Professor, Institute and Department of Electro-Optical Engineering
National Taipei University of Technology
(台北科技大學光電工程學系呂海涵特聘教授)

"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 ad 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
(臺灣大學資訊管理學系暨研究所兼臺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祈方教授)

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. 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
(臺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
Assist 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暐教授)

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
(臺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 Department Chairman, Department of Communications,
Navigation and Control Engineering
National Taiwan Ocean University
(臺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
(臺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
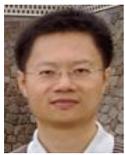
"3D Video Processing with Disparity Optimization"
Dr. Shang-Hong Lai
Director, Computer and Communication Center
Professor, Department of Computer Science
National Tsing Hua University
(清華大學資訊工程系賴尚宏教授)

"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
(臺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 Normal 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
Department of Computer Science and Information Engineering
National Taiwan University

"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

(臺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
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 Does Image Display Size Affect 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 f 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. Herng-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
(臺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
(臺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
Director of Sound and Music Innovative Technology Master Program
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
(臺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
(臺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瀞珽教授)

"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
(臺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
(加州大學戴维斯分校計算機科學系吳士駿教授)