The EITA Smart Cities Forum 2016 -
(EITA Knowledge and Smart Technology 2016)

"Knowledge, Smart Technology and the Internet
of Things: Challenges, Opportunities and Future
Directions"

The Maclaurin Buildings (4)
Massachusetts Institute of Technology
Cambridge, Massachusetts, U.S.A.

Friday, August 26, 2016

Program

(Draft as of 08/27/16)

Day 1 (Friday, August 26, 2016)

8/26 (Fri) 8:30 am - 6:00 pm: Registration
Room: 4-257

8/26 (Fri) 9:30 am - 9:50 am: Opening Session

Co-Chair: **Dr. Michael Chang**
Chief Executive Officer, Kyper Data Technologies

Co-Chair: **Dr. Sheng-Ying (Aithne) Pao**
,Director of Strategic Innovation, Lee Kum Kee Group and MIT Media Lab
Room: 4-257

Welcome Remarks:

Mr. Ming-chi Scott Lai
Director-General
Taipei Economic and Cultural Office in Boston
(駐波士頓台北經濟文化辦事處賴銘琪處長)

Plenary Sessions:
8/26 (Fri) 9:50 am - 10:35 am: Plenary Session (I):

Chair: **Dr. Michael Chang**
Chief Executive Officer, Kyper Data Technologies
Room: 4-257

Plenary Speaker:

"Alzheimer's Disease Sequencing Project"

Dr. Li-San Wang
Associate Professor of Pathology and Laboratory Medicine
Co-Director, Penn Neurodegeneration Genomics Center
University of Pennsylvania Perelman School of Medicine
(賓州大學醫學院王立三教授)

8/26 (Fri) 10:35 am – 11:20 am: Plenary Session (II):

Chair: **Dr. Sheng-Ying (Aithne) Pao**
Director of Strategic Innovation, Lee Kum Kee Group and MIT Media Lab
(麻省理工學院包盛盈博士)
Room: 4-257

Plenary Speaker:

"The Smart Localized Water Solution"

Dr. Ting-Yun Sasha Huang
CEO, AquaFresco Inc.

8/26 (Fri) 11:20 am - 11:35 am: Break

8/26 (Fri) 11:35 am – 12:20 pm: Plenary Session (III):

Chair: **Dr. Woei-jyh (Adam) Lee**
Tyser Teaching Fellow of Information Systems, Robert H. Smith School of Business
University of Maryland, College Park
(馬里蘭大學學院市分校史密斯商學院李偉智教授)
Room: 4-257

Plenary Speaker:

Dr. Michael Chang
Chief Executive Officer
Kyper Data Technologies

8/26 (Fri) 12:20 pm - 1:50 pm: Lunch

Parallel Sessions:
8/26 (Fri) 1:50 pm – 3:20 pm: Technical Session D1-W1-T1: Smart Cities, the Internet of Things, Smart Technologies and Applications (Smart Computing, Smart Mobility and Transportation, Smart Environments, Smart Supply Chain and Logistics, Smart Manufacturing, Smart Energy Systems, Smart Weather Forecasting, and ….)

Chair: **Dr. Chen-Hsiang (Jones) Yu**
Founder and CEO, Prentice Lab
(Prentice Lab 余禎祥博士)
Room: 4-257

"Distributed Energy Management in Power Networks"
Dr. Na (Lina) Li
Assistant Professor in Electrical Engineering and Applied Mathematics
School of Engineering and Applied Sciences
Harvard University

Dr. Wencong Su
Assistant Professor, Department of Electrical and Computer Engineering
University of Michigan-Dearborn

"The climate change implications of the Paris agreement"
Dr. Erwan Monier
Principal Research Scientist, Center for Global Change Science
Joint Program on the Science and Policy of Global Change
Massachusetts Institute of Technology

"The Usage of Social Media Geospatial Aggregators for Disaster Response in Large Cities"
Dr. Thomas Chandler
Associate Research Scientist, National Center for Disaster Preparedness, The
Earth Institute
Adjunct Assistant Professor, Communication, Media, and Learning
Technologies Design, Teachers College, Columbia University

8/26 (Fri) 1:50 pm – 3:20 pm: Technical Session D1-W2-T1: Smart Healthcare Technologies, Services and Applications (Computational Intelligence, Emerging Intelligent Technologies and Applications, Data-driven Discoveries and Uncertainty Quantification, High Performance/High Throughput (HPC/HTC), and Cloud Computing)

Chair: **Sheng-Ying (Aithne) Pao**
Director, LKK Health Products Group, Massachusetts Institute of Technology
(麻省理工學院包盛盈博士)
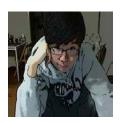Room: 4-265

"Big Data and Network Biology: A Case Study"
Dr. Jason Tsong-Li Wang
Professor of Bioinformatics and Computer Science
Director, Data and Knowledge Engineering Lab & Bioinformatics Center
Department of Computer Science
New Jersey Institute of Technology
(紐澤西理工學院電腦科學系暨數據知識工程實驗室及生物資訊中心主任王中力教授)

Dr. Hau-Tieng Wu
Assistant Professor, Department of Mathmatics
University of Toronto
(多倫多大學數學系吳浩�教授)

"The Use of Wearable Sensors and Systems in Rehabilitation Medicine"

Dr. Sunghoon Ivan Lee
Assistant Professor, College of Information and Computer Sciences
University of Massachusetts, Amherst

Dr. Woei-jyh (Adam) Lee
Tyser Teaching Fellow of Information Systems, Robert H. Smith School of Business
University of Maryland, College Park
(馬里蘭大學學院市分校史密斯商學院李偉智教授)

"Inference of genes associated with cancer targeted therapy resistance"

Dr. Peng Jiang
Postdoctoral Research Fellow, Department of Biostatistics and Computational Biology
Dana-Farber Cancer Institute
Harvard University

8/26 (Fri) 3:20 pm – 3:35 pm: Break

Parallel Sessions:
8/26 (Fri) 3:35 pm – 5:05 pm: Technical Session D1-W1-T2: Smart Cities, the Internet of Things, Smart Technologies and Applications (Smart Computing, Smart Mobility and Transportation, Smart Environments, Smart Supply Chain and Logistics, Smart Manufacturing, Smart Energy Systems, Smart Weather Forecasting, and ….)

Chair: **Dr. Chen-Hsiang (Jones) Yu**
Founder and CEO, Prentice Lab
(Prentice Lab 余禎祥博士)
Room: 4-257

"Incorporating Transit Capacity Constraints into the Regional Travel Demand Model"

Dr. Jieping Li
Senior Transportation Analyst
Central Transportation Planning Staff
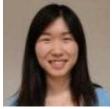The Boston Region Metropolitan Planning Organization (MPO)

Dr. Chen-Hsiang (Jones) Yu
Founder and CEO, Prentice Lab
(Prentice Lab 余禎祥博士)

"Constrained optimization methods for collaborative multi-robot motion planning and control"

Dr. Javier Alonso Mora
Postdoctoral Associate, Computer Science and Artificial Intelligence
Laboratory (CSAIL)
Massachusetts Institute of Technology

"Impact of Urban Surface Albedo on Regional and Local Scales using the WRF model"

Dr. Liyi Xu
Postdoctoral Associate, Center for Global Change Science
Massachusetts Institute of Technology

8/26 (Fri) 3:35 pm – 5:05 pm: Technical Session D1-W2-T2: Smart Healthcare Technologies, Services and Applications (Computational Intelligence, Emerging Intelligent Technologies and Applications, Data-driven Discoveries and Uncertainty Quantification, High Performance/High Throughput (HPC/HTC), and Cloud Computing)

Chair: **Dr. Hau-Tieng Wu,** Assistant Professor, Department of Mathmatics, University of Toronto

(多倫多大學數學系吳浩楦教授)

Room: 4-265

"A Constraint Mixture of Bayesian Hierarchical Models for Paired Data with Application to Genomic Outcome Screening"

Dr. Weiliang Qiu
Assistant Professor, Channing Division of Network Medicine
Brigham and Women's Hospital
Harvard Medical School

Dr. Sheng-Ying (Aithne) Pao
Director of Strategic Innovation, Lee Kum Kee Group and
MIT Media Lab
(麻省理工學院包盛盈博士)

"How smart is your medicine? An overview on Precision Medicine and a view from the ground"

Dr. Chiao-Feng Lin
Senior Bioinformatician, Partners HealthCare Personalized Medicine;
Research Associate at Harvard Medical School
(Partners HealthCare 林嬌鳳博士)

"Metagenome and metatranscriptome data analysis in human microbiome studies"

Dr. Wen-Chi Chou
Postdoctoral Associate
Broad Institute of MIT and Harvard