

# TNList Academic Summit on “IT Vision 2020”

## Day 1 (12 July, 2010)

### 8:45-9:00: Opening Ceremony (Chair: Zhisheng Niu, SIST)

8:45-8:50: Welcome by Prof. Jianguang Sun (Director of TNList, Dean of SIST, Vice President of NSFC)

8:50-8:55: Greetings from Prof. Binglin Gu (President of Tsinghua University)

8:55-9:00: Greetings from MOST/MOE/NSFC

### 9:00-10:30: Plenary Session 1 (Chair: Jing Wang, TNList)

9:00-9:45: “Sustainable Energy and Information Technology” (Yannis Yortsos, USC)

9:45-10:30: “Computational Biology in the 21-st Century” (Michael Waterman, USC)

### 10:30-11:00: Coffee Break

### 11:00-12:30: Plenary Session 2 (Chair: Jing Wang, TNList)

11:00-11:45: “New Directions in Wireless Research” (H. Vincent Poor, Princeton University)

11:45-12:30: “Si CMOS – What Happens When Scaling Isn’t An Option?” (James Plummer, Stanford University)

### 12:30-14:00: Lunch

### 14:00-15:30: Plenary Session 3 (Chair: Maosong Sun, SIST)

14:00-14:45: “Frontiers in Research and Education in Computing: A View from the National Science Foundation” (Jeannette Wing, NSF)

14:45-15:30: “Societal Case Cyber Physical Systems: Action Webs and Beyond” (S. Shankar Sastry, Univ. of California at Berkeley)

### 15:30-16:00: Coffee Break

### 16:00-17:30: Plenary Session 4 (Chair: Maosong Sun, SIST)

16:00-16:45: “Challenges for a New Generation Network” (Hideo Miyahara, NICT)

16:45-17:30: “Communications, Broadcasting and Internet in the Convergence Era” (Byeong Gi Lee, ComSoc/IEEE)

## Day 2 (13 July, 2010)

### 8:45-10:15: Plenary Session 5 (Chair: Yi Luo, TNList)

8:45-9:30: “Applied Research and Technology Transfer in Hong Kong” (Nim Cheung, ASTRI)

9:30-10:15: “Hitachi R&D Strategy - Fusion of IT and Social Infrastructure Technologies ” (Shigeru Azuhata, Hitachi)

### 10:15-10:45: Coffee Break

### 10:45-11:30: Plenary Session 6 (Chair: Yi Luo, TNList)

10:45-11:30: “Communication and Control in the Next Generation of Systems” (P. R. Kumar, UIUC)

### 11:30: Closing Remarks

Time

July 12-13, 2010

Venue

Lecture Hall, FIT Building, Tsinghua University

Sponsors

National Natural Science Foundation of China (NSFC), Tsinghua University

Organizer

Tsinghua National Laboratory for Information Science and Technology (TNList)