The 2010 Chinese Control and Decision Conference (2010 CCDC), the 22nd in the conference series, was held in Xuzhou, China on May 26–28, 2010. The conference was coorganized by Northeastern University, China, the Industrial Electronics (IE) Chapter of the IEEE Singapore Section, and the China University of Mining and Technology, China. The conference was technically cosponsored by the IEEE Control Systems Society (CSS), the Automatic Control Society of Chinese Association of Aeronautics, the Technical Committee on Control Theory of Chinese Association of Automation, the Simulation Methods and Modeling Society of Chinese Association for System Simulations, the Intelligent Control and Management Society, and the Chinese Association for Artificial Intelligence.

TECHNICAL PROGRAM

The 2010 CCDC received 1510 submissions from 23 countries and regions. After a rigorous review process, 902 papers were included in the technical program for presentation in 90 oral sessions and nine interactive sessions. Attending the conference were 550 delegates.

In addition to the standard sessions, the technical program included four keynote speeches and eight semi-plenary talks covering theory and applications in control, decision, automation, robotics, and emerging technologies. The four keynotes were:

1) “Research on Navigation Control and Cooperation of Mobile Robots” by Zixing Cai, Central South University, China.
2) “Dynamic Learning and Pattern-Based Control” by David John Hill, Australian National University.
3) “Reinforcement Learning and Cooperative Decision-Making for Control of Dynamical Systems” by Frank Lewis, University of Texas at Arlington, United States.
4) “Control Science—A Science Advancing with Needs” by Lin Huang, Beijing University, China.

Semi-plenary talks were delivered by Sam Shuzhi Ge of the National University of Singapore, “Adaptive Neural Control and Output Constraint Control”; Weihua Gui of Central South University, China, “Optimal Control for Large Scale Electrolytic Zinc Process”; Zhong-Ping Jiang of the Polytechnic Institute of New York University, United States, “A Tool for the Analysis and Synthesis of Interconnected Systems”; Lorenzo Marconi of the University of Bologna, Italy, “Modeling and Control of a VTOL UAV Interacting with the Environment: From Flying Vehicles to Flying Robots”; George J. Pappas of the University of Pennsylvania, United States, “Multiagent Systems: Challenges and Opportunities”; Yong-Duan Song of Beijing Jiaotong University, China, “Latest Developments in Modeling and Control of High Speed Trains”; Xinghuo Yu of RMIT University, Australia, “Smart Grids from a Complex Network Viewpoint”; and Huaguang Zhang of Northeastern University, China, “Analysis and Synthesis of Fuzzy Hyperbolic Model.”

All sessions, including plenary sessions, semi-plenary sessions, oral sessions, and poster sessions, were well attended and produced active discussions. The conference banquet, which included entertainment, was held in the evening of May 27, 2010.

A CD-ROM, containing all the papers presented at the conference, was provided to each registered delegate. The official conference
proceedings has been published by IEEE and is in IEEE Xplore.

ZHANG SI-YING (CCDC) OUTSTANDING YOUTH AWARD

The Zhang Si-Ying Outstanding Youth Paper Award serves to recognize Academician Zhang Si-Ying’s highly regarded perseverance, character, and academic contributions. It also serves to inspire, motivate, and encourage young scholars in their research. For a paper to be eligible for the award, the first author of the paper must not be older than 35 on the day of award presentation at the conference. The award is 3000 RMB with a certificate.

The Award Committee for the 2010 CCDC was composed of Zhong-Ping Jiang, United States, Lorenzo Marconi, Italy, Changyun Wen, Singapore, Xin He Xu, China, and Guang-Hong Yang, China.

For the 2010 CCDC, 67 papers were selected for consideration for the Zhang Si-Ying Outstanding Youth Paper Award based on reviewers’ comments, nominations, and the evaluations of the Technical Program Committee members. These papers were sent to experts including members of the International Advisory Committee for further evaluation. Based on their evaluations and recommendations, the Technical Program Committee shortlisted the following five papers as finalists for the award:}

The CCDC banquet.
1) “Extending LaSalle’s invariance Principle to Impulsive Switched Systems with an Application to Hybrid Epidemic Dynamics” by Jun Liu, Xinzhi Liu, and Wei-Chau Xie of the University of Waterloo.
2) “An Estimation of Distribution Algorithm for a Resource-Constrained Project Scheduling Problem” by Chen Fang, Ling Wang, and Ye Xu of Tsinghua University.
4) “Self-tuning Measurement Fusion Wiener Filter for Autoregressive Signals” by Yuan Gao and Zili Deng of Heilongjiang University.
5) “Synchronization Control of Discontinuous Neural Networks Via Approximation” by Xiaoyang Liu and Jinde Cao of Southeast University.

During the conference, all the Award Committee members attended the oral presentations of the five finalist papers. Each member independently assessed the finalist’s originality, technical quality, written, and oral presentations. On the basis of these assessments, the 2010 CCDC Zhang Si-Ying Outstanding Youth Paper Award was presented to Jun Liu from the University of Waterloo and Jingtao Shi from Shandong University.

Jianchang Liu, general cochair of 2010 CCDC, presented a certificate of finalist to all the finalists, and Fuli Wang, 2010 CCDC general chair, presented the award with certificate to the two winners during the banquet.

2011 CHINESE CONTROL
AND DECISION CONFERENCE
The 2011 CCDC, which will be the 23rd of the series, will be held in Mianyang, China on May 23–25, 2011. Keynote addresses on the state of the art on the theories and applications in control and decision will be delivered by A. Stephen Morse of Yale University, Ian R. Petersen of the University of NSW at the Australian Defence Force Academy, and Cheng Wu of Tsinghua University. Semiplenary talks will be delivered by Naira Hovakimyan of the University of Illinois at Urbana-Champaign, Ali Jadbabaie of the University of Pennsylvania, and Andrea Serrani of The Ohio State University. The organizing committee will continue inviting prominent professors and academicians as semiplenary speakers for the 2011 CCDC. Information for the 2011 CCDC will be regularly updated on the conference Web site: http://www.ccdc.neu.edu.cn.

Changyun Wen
Guang-Hong Yang
International Technical Program Chairs

2010 American Control Conference

The 2010 American Control Conference (ACC) was held June 30 to July 2, 2010, at the Marriott Waterfront Hotel in Baltimore, Maryland. With 1323 registered participants, this conference was the largest ACC to date. The 22 parallel technical sessions, five workshops, five special sessions, five plenaries, six industry-sponsored sessions, 14 exhibit booths, and eight tutorial sessions provided participants with a plethora of opportunities to convey and learn the latest advancements in the theory and application of control systems and related topics. The Marriott venue provided participants with sunlight, spacious presentation rooms, and beautiful views of the scenic Baltimore Inner Harbor. The Welcome and Closing Receptions were held at the Baltimore National Aquarium and the Baltimore Science Center, respectively, to allow participants to socialize outside of the conference hotel.

Five major American Automatic Control Council (AACC) awards were presented at the Awards Ceremony. The conference hosted more than 50 member-society committee meetings as well as the administrative and technical meetings of the International Federation of Automatic Control (IFAC) Council, which is led by IFAC President Alberto Isidori. The Council manages the technical and executive activities of the IFAC technical committees and boards, and its representatives participated in the conference events.

The 2010 ACC included three successful first-time events: 1) exhibitor demonstrations outside the exhibits area; 2) a wireless Internet cafe with seats for 150 users; and 3) student registration that included the conference luncheon.

The ACC is organized under the auspices of the AACC, which is the U.S. National Member Organization of IFAC. The ACC brings together individuals working in control, automation, and related areas from eight member societies, namely, the American Institute of Aeronautics and Astronautics (AIAA), the American Institute of Chemical Engineers (AIChE), the Association for Iron and Steel Technology (AIST), the American Society of Civil Engineers (ASCE), the American Society of Mechanical Engineers (ASME), the IEEE, the International Society for Measurement and Control (ISA), and the Society for Computer Simulation (SCS).

TECHNICAL PROGRAM
The technical program was organized by Program Chair Richard D. Braatz. The society review chairs, program