Toward Post-Modern Control Theory and Beyond

Control Division
Technical Committee on Control Theory

Goal
- Driving force behind the Japanese control theoretical communities
- Provision of innovative control theory to control technology communities

Background
- Key science for emerging technologies
  ICT revolution, nanotechnology, biotechnology, etc.
- Development of universal approach via control
  Solution to environment, natural resources and energy problems.

Strategy
Provide opportunities for discussions to develop control system research, cooperating with control theory, control technology researchers and its application engineers.

Activity Plan
- Annually organizing SICE Symposium on Control Theory since 1972
  - In 2008: 86 papers/120 participants
  - In 2009: the 38th symposium will be held in Osaka from September 14th to 16th.
- Cooperation with TC for Control Technology

1) Control Theory
   - Linear control, Nonlinear control, Robust control, Digital control, Model building, Estimation and identification, Adaptive and Learning theory, Numerical optimization, Large scale and Complex systems

2) Control Technology
   - Information and communication technology, Process control, Metal and Steel process control, Space and Aviation technology, Automobile and Vessel control, Power system and Nuclear power control, etc.

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