

# Systems and Information Division Technical Committee on Discrete Event Systems

## *Toward a New Framework for Dependable Systems*

### Goal

Theory for analysis, design and control of the Discrete Event Systems (DES) and Hybrid systems are developed. Furthermore, some developed ideas are exploited for design of the dependable systems.

### Problem

An approach with DES model is promising one that is expected to play an important role in developing the dependable complex systems.

### Strategy

Communication system, automation, transportation system, man-machine system and embedded system are addressed from viewpoint of DES. Some important problems related with these systems are solved.

### Activity Plan

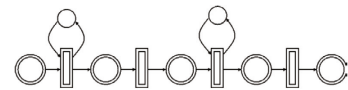
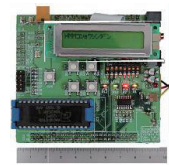
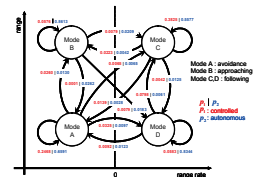
Organizing annual workshops (twice/year), proposal for organized session in the SICE Annual Conference and SSI are our main activities.

### Overview

Modeling and Analysis  
for DES, Hybrid Systems

Design, Planning,  
and Control

Evaluation, Diagnosis,  
and Verification



### Keywords

**Methodology:** modeling, supervisory control, scheduling, diagnosis, verification, decentralized system

**Application:** communication system, automation, transportation system, man-machine system, embedded system