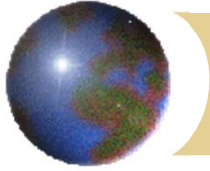# *Successful Technical Committees*
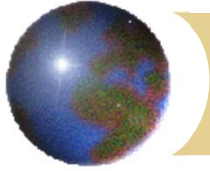
Satoshi Tadokoro

IEEE RAS VP for Technical Activities

Expectation to Technical Committees

- Lead the technical areas of robotics and automation
- Grow and expand robotics and automation, particularly into new areas for the future
- Provide technical services covering the technical areas to all over the world
- Enhance RAS member benefits and promote RAS membership
- Collaborate with other committees and chapters
- By voluntary activities of TC co-chairs and members
- Like a miniature IEEE Society
- TAB supports TCs by promoting good activities

Technical Leadership

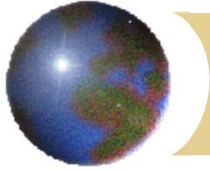- FUTURE:
  Lead future science and technology

- PEOPLE:
  For everyone from students to top researchers, and everyone from practitioners to scientists

- GEOGRAPHY:
  On a worldwide scale from developing countries to advanced countries

- GROWTH:
  Sustainable growth of leadership, particularly in new countries and regions

Tools for Leading Areas

Research

- Conferences, Symposiums
- Workshops at ICRA/IROS/CASE
- Organized Sessions at I/I/C
- Competitions, Exercises
- Standards
- Awards
- Special Issues in Journals
- Review Papers, Books
- Software Codes
- Webpages
- Magazine, Newsletter
- Research Projects, etc.

Education
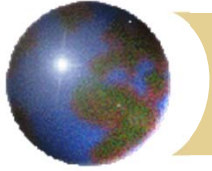
- Seminars, Summer Schools, Camps
- Tutorials at ICRA/IROS/CASE
- Competitions, Exercises
- Technical Tours
- Textbooks, Lecture Courses, Exercise Courses
- Webpages, Newsletter, etc.

Advisory
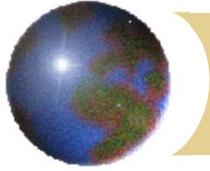
- Governments, Agencies, etc.
- Companies, Schools, etc.

Management

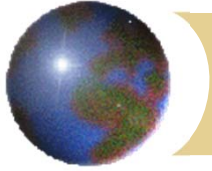- Technical Committee Meetings
- Technical Activity Board (TAB) Mtg.

Web Contents

- Full renewal of {www|tab}.ieee-ras.org in 2012 by RAS EPSB (Electronic Products Service Board)
- Educational Materials
  - Tutorial for beginners
  - Textbooks
  - Advanced issues beyond textbooks
- Technical Materials
  - Techniques and methods
  - Good papers and books in the field to be referred
- Management
  - Announcement of events
  - Archives

Resources

- RAS webpage as top page (to be renewed)
- TC's own webpage
- Distinguished Lecturer (DL) Program (in collaboration with chapters, or planned by TC)
- 50% of conference surplus (organized by TC)
- Creation of Educational Material in Robotics and Automation (CEMRA) Project
- Technical Education Program for summer schools (in collaboration with chapters)
- Special Issues in T-RO and T-ASE
- Robotics and Automation Magazine article
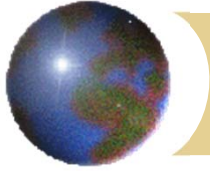- Workshops/tutorials at ICRA, IROS, CASE, etc.

Duties

- TC activities
  - Lead the technical area by your plan (conferences, workshops, tutorials, etc.)
  - Collaborate with other groups (TCs, chapters, etc.) by services related to the technical area
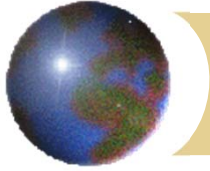 - Update the webpages
- Management
  - Triennial review
  - Attend TAB meetings at ICRA and IROS/CASE
  - Reviews, support activities, reports, etc.

Basic Policy of TC Evaluation

- Promotion of TC activities and growth of technical areas are the top-priority issues. The purpose of review is not squeezing TCs.
  - Warm but fair reviews to nurture TCs are desirable.
  - Good suggestions to encourage TCs are expected.
- Each TC has its own policy and its own characteristics. They must be respected.
  - Voluntary TC activities produce the best outcomes.
  - Quantity and quality are equally important. But each TC may focus on one of them.
  - Both the big TCs and small-size TCs are equally important. The difference should be considered, i.e. what they can do are different.
  - TCs with long history and short history are different. They have their own good points and missions.

Criteria of Evaluation

- Service
  - How TC is servicing the RAS members and the areas as a leader?
  - Conferences, special issues, books, webpage, etc.
- Innovation
  - How TC is leading the innovation into the new area?
- Management
  - Sure communication within TAB
- Overall evaluation