Successful Technical Committees

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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**