Industrial Activity Board (IAB)

Sukhan Lee
VP for IAB
IAB: Main Activities

- Industry Forum: IERA with Award
  IEEE/IFR Forum on Innovation and Entrepreneurship in R&A with Invention and Entrepreneurship Award
- Standards
- Roadmaps
- National IAB
IERA with Award:

IERA’08

- IERA’05, Barcelona, in conjunction with ICRA
  - Award: 12 applications, 3 finalists, winner: iRobot
  - Workshop: Entrepreneurship in robotics & automation
- IERA’06, Beijing, in conjunction with IROS
  - Award: 8 applications, 3 finalists, winner: KUKA
  - Workshop: successful case studies of robotics businesses
- IERA’07, Rome, in conjunction with ICRA
  - Award: 22 applications, 6 finalists, winner: AutoStrad
  - Workshop: robotics and automation industry of the future

IERA’08, Munich, in conjunction with AUTOMATICA!!
June 12, 2008, New Munich Trade Center
IERA:

Report and Issue

- USD 19.5K allocated over 2 years for IERA: The IERA budgets were approved by CB/AdCom. The allocated fund was not necessary to spend due to the surplus generated by IERA.
  - Surplus of IERA’05 USD 7,600
  - Surplus of IERA’07 USD 5,000
  - Measure of Success: the award applicants have gone up to 22 for IERA’07.

An MOU with IFR for 2008 IEEE/IFR Invention and Entrepreneurship Award is being finalized.

1 Winner for the IEEE/IFR Award
with USD 1,000 from RAS and USD 1,000 from IFR
Commendations with plaques for runner-ups, if necessary
IAB Activities:

**Standards**

• RAS Standing Committee on Standard Activities became an official sponsor of IEEE standards:
  - Policy and procedures have been approved by the IEEE Standards Board

• Project approval/authorization requests to the New Standards Committee of the Standards Board for review
  - RAS can organize Study Group (SG) and Working Group (WG) to generate standards
    - SG on Robot Ontology for Mobile Manipulation

• Liaison with other IEEE Groups and international SDO: ISO and IEC
The initiative fund was never retrieved and used: no proposal to the AdCom for a budget of USD 20K allocated.

- Instead, Erwin submitted a proposal, Rosta (Robot Standards and Architectures), for the Coordinated Action to the European Commission with a budget request of 1 million Euro. The RAS standard activity in conjunction with Rosta can be a win-win situation.

- Measure of Success: Becoming an official partner of IEEE standards to earn the right for PAR is a major advance. Expenditure after gaining the right of PAR may be more justifiable in terms of the standard process involved in SC and WC.

Discussions for Comments:
Is RAS willing to invest a good sum of money for generating standards in R&A? In the case where many stake holders are to contribute money for the activities, RAS has policies and rules to handle this (which is different from conferences and publications)?
IAB Activities:

**Roadmaps**

- **A collaborative working frame and DB in the web**
  - All registered users can file their inputs interactively
  - Collection and searching of information of existing roadmaps and other related forecasts, papers and documents
  - The size of the current ITRRA-SR database: 50 documents, 80 MB (International Technology Roadmap for R&A – Service robotics)

- **The IAB Roadmap Workshop on Service Robots**
  - Seoul, Korea and Ausburg, Germany
  - The workshop results and summaries publicized on-line
Roadmaps:

Report and Issue

- The initiative fund was never retrieved and used: no proposal to the AdCom for a budget of 25K USD allocated.
  - During the change of T/F leader from Reijo Tuokko to Klas Nilsson, Klas lost a chance to submit a detailed proposal.
  - Measure of success: After the collection of 50 roadmaps available and two roadmap workshops, no progress has been made.

Discussions for Comments:

Is RAS willing to invest a good sum of money for generating roadmaps in R&A? In the case where stake holders are to contribute money for the activities, RAS has policies and rules to handle this (which is different from conferences and publications)?
National IAB
Who's Who in IAB

• National IAB Chairs
  USA: Jeanne Dietsch (Mobile Robot Co.)
  Canada: Paul Johnston (Precarn Co.)
  Germany: Ralf Koenig/Rainer Bischoff (Kuka Roboter Inc.)
  France: Rodolf Gelin (CEA)
  UK: Geoff Pegman (RURobot Co.)
  Italy: Paolo Fiorini (Verona U.)
  Switzerland: Nicola Tomatis (Blubotics Co.)
  Finland: Reijo Tuoko (Tampere U.)
  Sweden: Henrik Christensen (KTH)
  Japan: Masakatsu Fujie (Hitachi/Waseda)
  Korea: Kyungchul Shin (Yujin Robotics Inc.)
  Australia: Alex Zelinsky (CISRD)
  Taiwan: Ren Luo (National Chenkung U.)

• Associate VPs:
  Erwin Prassler
  Hadi Moradi

• Task Force Leaders
  • Standards:
    Erwin Prassler
    Roadmap: Klas Nilson
    Reijo Tuokko

• IAB Steering Committee
  • Sukhan Lee
  • Erwin Prassler
  • Raja Chatila
  • Jeanne Dietsch
  • Henrik Christensen
  • Jean-Paul Laumond
  • Hadi Moradi
  • Oussama Khatib
  • Paolo Dario
  • Hideki Hashimoto
  • Toshio Fukuda
Future Plan for IAB

- To activate RAS members from industrial and commercial sectors: among about 30% of our membership, those active in our society is less than 1%

- RAS, with its technical expertise, should become the major partner for the on-going industrialization and commercialization in the field of robotics and automation

- Industry forum (IERA) is ready to grow, Standards got a momentum to be significant and expects to produce global standards, Roadmaps will be the next to be reinvigorated, and National IABs are to become of a major source for IAB activities

VP Elected: Alex Zelinsky
Standards

Roadmaps

RAS IAB

Industry Forum: IERA

http://www.ieee-ras.org/industrial/iera.php

Thank you!

- Industry Sponsorship: $17,250
- RAS Fund: $2,000
- Sponsors:
  - Microsoft: $5,000 (RAS Account)
  - Precarn: $4,000 (RAS Account)
  - Evolution Robotics: $2,500 (ICRA Account)
  - KUKA: $2,500 (ICRA Account)
  - KAIRA: $2,000 (ICRA Account)
  - CEA/LIST: $1,250 (RAS Account)
- Accounts:
  - $10,250 deposited to the RAS account
  - $7,000 deposited to ICRA05 account
(Expenditure)

- Total Expenditure: $11,646.28
  - Room: $2,505.00
  - Equipments: $852.50
  - Coffee: $1,872.50
  - Speakers: $3,825.00
  - Travel: $1,784.00
  - Plaques: $424.00
  - Banners: $125.00
  - Forum Reception: $258.28

- Surplus: $7,603.72 ($19,250.00 - $11,646.28)