IEEE Transactions on
Automation Science and Engineering

Status Report
An Important/Exciting Beginning

October, 2003, Las Vegas
Peter B. Luh, Editor-in-Chief
1. T-RA TO T-ASE AND T-RO

- Expand *T-RA* into two publications:
  - IEEE Transactions on Robotics (T-RO)
    - Emphasizing solutions for unstructured environments where a significant portion of the environment is unknown and cannot be controlled (e.g., space, undersea, the home).
    - Emphasizing solutions for structured environments: (e.g., factories, labs, airports), and the explicit structuring of such environments, where systems must operate over long periods with efficiency, productivity, quality, and reliability.
2. THE EDITORIAL BOARD

• Follows the T-RA/T-RO three-tier structure with one EIC, four Editors, and 20 to 30 Associate Editors
• Editor-in-Chief: Peter Luh, ECE, UConn
• Editors:
  Placid Ferreira, Flexible Automation Processes, ME/IE, U. Illinois
  Michael Wang, Design and Manufacturing, Chinese U. HK
  Deirdre Meldrum, Biotechnology/Healthcare, U. Wash.
  N. Viswanadham, Systems and Networks, N. U. of Singapore
• Associate Editors - Flexible Automation Processes
  Darek Ceglarek, Process Design/Control/Diagnosis, IE, U. of Wisconsin
  Byoung Kyu Choi, CAPP, CAD, CAM, IE, KAIST
  Han-Pang Huang, System Modeling/Control/Diagnosis, ME, National Taiwan U.
  Mark Lawley, Manufacturing Automation, IE, Purdue U.
  Kok-Meng Lee, Agricultural/Food Processing, ME, Georgia Institute of Technology
  Antonello Monti, Modeling and Simulation of Complex Systems, EE, U. of South Carolina, IAS Representative
• Associate Editors - Design and Manufacturing

Srinivas Akella, Robotics and Flexible Manufacturing, Bioinformatics, CS, RPI
Han Ding, Manufacturing and Embedded Internet, Robotics Institute, Shanghai Jiaotong U.
Jerry Fuh, IT for Design/Manufacturing, ME, N. U. Singapore
A. Frank van der Stappen, Manipulation/Motion Planning, Computational geometry, CS, Utrecht U., The Netherlands
Jeffrey C. Trinkle, Manipulation Planning and Part Handling, CS, RPI
• **Associate Editors - Biotechnology/Healthcare/Nano**

Hisayuki Aoyama, Micro System, ME & IS, U. of Electro-Communications, Japan

Karl Böhringer, Micro/Nano Manipulation/Assembly EE, U. Washington

Harold Garner, Biotechnology, U. of Texas Southwestern Medical Center

Andre Marziali, Automation technology for genomics, Physics, U. of British Columbia

Tieniu Tan, Surveillance, Biometric Personal Identification, Institute of Automation, Academia Sinica, China
• **Associate Editors - Systems and Networks**
  
  Saif Benjaafar, Manufacturing/Supply Chains, ME, Minn.
  Philip Kaminsky, Manufacturing/Supply Chains, IEOR, UC Berkeley
  László Monostori, Intelligent Manufacturing, Hungarian Academy of Science
  Yadati Narahari, Supply Chain Design and Optimization, CS/Automation, Indian Institute of Science
  Chung Piaw Teo, Logistics and Supply Chain Optimization, Decision Sciences, N. U. Singapore
  Jeffrey D. Tew, Quality and Supply Chains, GM R&D
  MengChu Zhou, DEDS and Petri Nets, ECE, NJIT
## 3. GOALS

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**Total # Online Subscriptions** | 127 | 239 | 319 |

**Total # Print Subscriptions** | 817 | 1,158 | 1,384 |
4. ACTION ITEMS

• Solicit exemplary papers, special issue proposals on promising areas, and subscriptions
  – First few issues are critical to define the scope/quality
  – Already have 30 plus paper submissions
  – Take automation papers overflowed from T-RA
• Invite AEs from industries, e.g., Johnson and Johnson, IBM, and Intel. Input welcome
• Establish the Best T-ASE Paper Award
• Promote within and outside RAS and IEEE
• Have an eye on emerging areas and opportunities
5. CONCLUDING REMARKS

• An exciting and critical beginning
• The goal is to have a flagship journal on Automation with enlarged membership
• Your efforts and support will be crucial and highly appreciated. Please subscribe and submit your own good work!

THANK YOU