

IEEE W/NV RAS Chapter

<http://ewh.ieee.org/r2/washsec/ras>

Chair: Raj Madhavan, Ph.D.

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R & D Staff Member

Oak Ridge National Laboratory (ORNL)

&

Guest Researcher

National Institute of Standards and Technology (NIST)

Vice Chair: Leon Escobar

leonescobarm@ieee.org

Guest Researcher

Norbert Wiener Center of Harmonic Analysis

University of Maryland, College park MD

&

Automation and Controls Project Engineer

GEA Group P-Division, Columbia MD

Treasurer: Robert Noteboom

Webmaster: Paul Ferretti





Recent & Upcoming Activities (Fall'09)

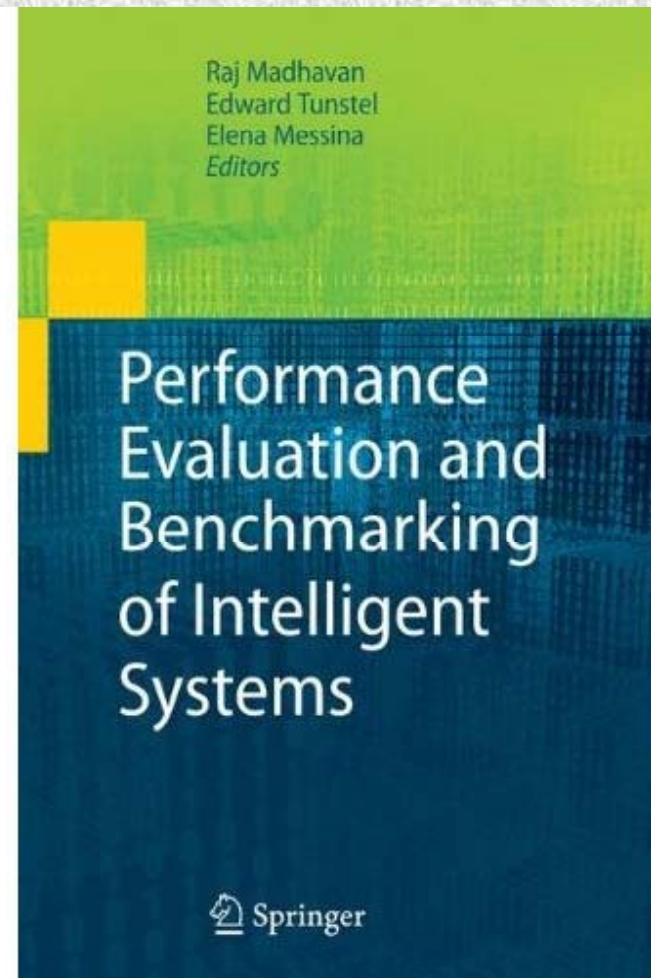
- Second Annual Robotics Speedway Competition (ARSC)
<http://www.ece.umd.edu/arsc/>
 - @ UMD October 24th
 - Movies, Photos, and an article will be posted on the Chapter Website
- GSS: Janet Rochester, SSIT
 - @ MITRE (Today!)
- MSS: ARSC Winner and two runner-ups
 - @ UMD (Tentative Date: Nov. 17th)
- GSS: Speaker TBD
 - @ MITRE (Tentative Date: Dec. 15th)
- Tour to NASA Goddard
 - Date TBD



Springer Book

Performance Evaluation and Benchmarking of Intelligent Systems (Editors: Raj Madhavan, Edward Tunstel, and Elena Messina)

- Dedicated to defining measures and methodologies of evaluating performance of intelligent systems
- Covers a wide range of subject areas related to intelligent system
- Written by experts from their presentations at the PerMIS'08 workshop held at NIST (13 Chapters out of 58 papers)



IEEE RAS W/NV Chapter Meeting October 28th 2009

IEEE RAS Technical Committee

TC on Performance Evaluation and Benchmarking of Intelligent Systems (Co-Chairs: Raj Madhavan, Angel del Pobil, and Elena Messina)

- Approved during TAB/AdCom meeting at ICRA'09 in Kobe (May'09)
- TC-PEBRAS will concentrate on performance aspects of intelligent systems including software and other influencing factors
- We expect to learn from the experiences and insights of the members of the existing TCs in a variety of diverse application domains
- <http://tab.ieee-ras.org/committeeinfo.php?tcid=35>

TCPEBRAS

Performance Evaluation and Benchmarking of Robotic and Automation Systems



Members: 90

Raj Madhavan
Angel del Pobil
Elena Messina

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Fostering Objective and Quantitative Evaluation

Recent Activities

- Springer Book "Performance Evaluation and Benchmarking of Intelligent Systems" (Sept. 2009)
- Performance Metrics for Intelligent Systems (PerMIS) Workshop at NIST, Sept. 21-23, 2009
- IROS Workshop on Performance Evaluation: Nice (Sept. 2008) & St. Louis (Oct. 15th 2009)
- Autonomous Robots Special Issue "Characterizing Mobile Robot Localization and Mapping" (Vol. 27 No. 4 Nov. 2009)

Future Activities

- Discuss with other TC Chairs/Members on their performance evaluation issues
- Kick-off WS to bring together community to identify areas of focus to define TC activities (First quarter of 2010)
- Interoperability and Performance Standards: <http://collaborate.nist.gov/twiki-robotstds/>
- Robot Competitions: VMAC & Mobile Microrobotics Challenge (ICRA'10)



Robotics and Automation Society Chapter (Wash/No Va Sections)



IEEE RAS W/NV Chapter Meeting October 28th 2009

Second Annual ARSC



Movies

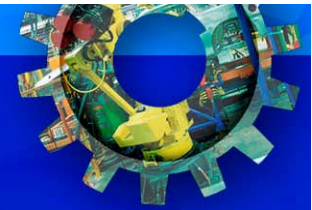
ARSC_Video.MOV

ARSC_Video2.MOV



Robotics and Automation Society Chapter (Wash/NoVa Sections)





Guest Speaker Series



IEEE Washington/NoVa RAS Chapter 2009 Guest Speaker Series

Date: October 28th, 2009

Time: 7:00 PM

Location:

The MITRE Corporation Building
#2, Conference Room 1N100,
7515 Colshire Drive, McLean, VA.

*See next page for directions and
parking information.*

Contact Information

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Society on Social Implications of Technology (SSIT)

Janet Rochester

President, SSIT

<http://ieeessit.org/>

Abstract

Engineers and technologists need to extend their vision to include what the public might do with a product or what might be done to the public. Since 1982, the Social Implications of Technology Society has addressed the implications of technology on health care, on privacy and the use of personal data, the education of engineers, and energy sources and policy. We publish refereed articles on these and other subjects. We have published articles on "Sustainability" for 20 years and it is now engineering practice. Our annual conference provides a forum for IEEE members to discuss topical subjects with social scientists, ethicists, and historians.

Speaker Biography

Janet Rochester, (M '83) BSc., MS, MBA, is a Senior Member of the IEEE. Before retiring in 2004 from Lockheed Martin Maritime Systems and Sensors – Moorestown, NJ, she was a Lead Member of the Engineering Staff in the Radar System Engineering group. Most of her work consisted of writing and editing computer hardware and software specifications for the radar system of the Aegis radars installed on Navy ships, but she also saw these documents through the publication process, in paper format and electronically. She served as the Chair of the Philadelphia Section of the IEEE in 2003, the Section's centenary year, having served as Secretary, Treasurer, and Vice-Chair. She is a national S-PAC speaker on the subject of Professionalism. Janet has been a member of the SSIT Board of Governors since 1999, currently serving as the President. She has also served as Chair of the Publications Committee.

This meeting is co-sponsored by the following IEEE Chapters.

Society on Social Implications of Technology (NV/W/B), Sensors Council Society (W/NV), Education Society (W/B), Professional Communication Society (NV/W/B), Communications Society (W), Engineering in Medicine & Biology Society (W/NV), Nuclear & Plasma Sciences Society (W/NV), Electron Devices Society (NV/W).

W: Washington Section; NV: Northern Virginia Section; B: Baltimore Section.



Robotics

