

PerMIS'04

Performance Metrics for Intelligent Systems

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Co-Sponsored[†] by

The National Institute of Standards and
Technology
Defense Advanced Research Projects
Agency
Institute of Electrical and Electronics
Engineers Systems, Man, and
Cybernetics Society

In Cooperation[†] with

The IEEE Neural Network Society

Workshop Organizers

Elena Messina, NIST
Alex Meystel, Drexel University

Submission Information

Prospective authors are requested to either send a draft paper (maximum 8 pages) or an extended abstract for review. All submissions must be written in English, starting with a succinct statement of the problem, the results achieved, their significance and a comparison with previous work. Position papers are welcomed as well.

Electronic submissions (ps, pdf, Word) are strongly preferred. Please submit to:

PerMIS@cme.nist.gov
Phone: (301) 975-3235

Important Dates

Submissions due: May 3
Acceptance/rejection: June 14
Final papers due: July 12

In the fifth workshop in a series targeted at defining measures and methodologies of evaluating performance of intelligent systems, we will examine more closely applications of performance measures to practical problems in commercial, industrial, and military applications.

Papers and invited sessions are being sought. Topic areas include, but are not limited to

- ❖ Generic measures of performance
- ❖ Measuring the level of autonomy of a system
- ❖ Evaluating Components within Intelligent Systems
 - Sensing and Perception
 - Knowledge Representation, World Models
 - Ontologies
 - Planning and Control
 - Learning and Adapting
- ❖ Communications with Humans (and Other Systems)
- ❖ Collaboration with Other Systems (and Humans)
- ❖ Testbeds and Competitions for Inter-comparisons
- ❖ Tools for Facilitating Performance Measures
- ❖ Simulation and Modeling support
- ❖ Evaluating Architectures for Intelligence
- ❖ Technology readiness measures for intelligent systems
- ❖ Applied performance measures, e.g.,
 - Intelligent transportation systems
 - Emergency response robots (search and rescue, explosives)
 - Demining robots
 - Defense robotics
 - Command and Control
 - Hazardous environments (e.g., nuclear remediation)
 - Industrial and manufacturing systems
 - Space robotics
 - Assistive devices

WORKSHOP LOCATION

The workshop will be held at the National Institute of Standards and Technology, in Gaithersburg, Md, approximately 20 miles from Washington

[†] Pending approval

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