Influencing M&S Policies and Standards: MOVES Engagement

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Overview

• Question: What involvement does MOVES have in M&S policies and standards in the US and internationally?
  – Findings: Surprisingly extensive!

• MOVES faculty and students (former and current) are involved in a large number of organizations and activities shaping the present and future of M&S

• Examples cited in this briefing are illustrative, not exhaustive
DoD Net-Centric Data Sharing

• DoD Directive 8320.02 mandates formation of Communities of Interest (COIs)
• MOVES participates in several:
  – M&S
  – Anti-Submarine Warfare
  – Mine Warfare
  – Command and Control
• MOVES researchers review and vote on changes to the DoD Discovery Metadata Specification (DDMS) managed by the Defense Information Systems Agency (DISA)
M&S Policy and Development

• DoD M&S Coordination Office

• OSD Acquisition, Technology, and Logistics (AT&L) Acquisition M&S Working Group (AMSWG)

• Defense Information Systems Agency (DISA)
  – Metadata Working Group

• Navy M&S Office
  – M&S Namespace Manager in the DoD Metadata Repository (MDR)

• National Defense Industrial Association (NDIA) M&S Committee

• US Army Simulation to C4I Interoperability (SIMCI) Overarching Integrated Product Team (O IPT)
International M&S Standards

- Simulation Interoperability Standards Organization (SISO)
  - Distributed Interactive Simulation (IEEE standard)
  - Coalition Battle Management Language (C-BML)
  - Military Scenario Definition Language (MSDL)
  - Simulation Reference Markup Language (SRML)
  - Architecture-Neutral Data Exchange Model (ANDEM)
  - Parallel and Distributed M&S (PDMS)
  - Human Social Culture Behavior (HSCB) Modeling Standards
  - Generic Methodology for Verification and Validation (GMVV)
Other Communities

• M&S Conference Committees
  – SISO Simulation Interoperability Workshops
  – SCS Summer/Winter Simulation Conferences
  – Interservice/Industry Training, Simulation and Education Conference
  – Military Operation Research Society Symposium

• MORS Human Behavior and Performance Community of Practice

• World Wide Web Consortium (W3C)
  – Efficient XML Interchange (EXI)

• International Standards Organization (ISO)
  – Extensible 3D (X3D)
Recommendations

• Since MOVES does so much across these many fronts, it is recommended that such activities become part of the Institute budget when not directly supported by project funds

• MOVES students can be active participants in these efforts
  – Early exposure in the first quarter can be enlightening and enable individual selection of an area/activity of interest
  – Involvement in these activities can become part of the educational experience by working in a selected group and reporting on efforts in the Capstone course in their final quarter
  – The addition of motivated participants can be a great help to many of these efforts
Links

- DISA: http://www.disa.mil/
- DISA MDWG: https://metadata.ces.mil/mdr/mdwgDocuments.htm
- IEEE: http://www.ieee.org
- ISO: http://www.iso.org
- M&S CO: http://www.msco.mil
- MDR: https://metadata.ces.mil/mdr/homepage.htm
- MORS: http://www.mors.org
- NDIA M&S Committee: http://www.ndia.org/Divisions/Divisions/SystemsEngineering/Pages/Modeling_and_Simulation_Committee.aspx
- OSD AT&L: http://www.acq.osd.mil
- SCS: http://www.scs.org
- SIMCI: Army Knowledge Online https://akologin.us.army.mil
- SISO: http://www.sisostds.org
- W3C: http://www.w3.org
- Web3D: http://www.web3d.org
Questions/Discussion

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