Association for Computing Machinery

SIGSIM Annual Report

July 1, 2008 – June 30, 2009

Prepared By

OSMAN BALCI, Chair

ACM SIG on Simulation and Modeling
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1 Highlights

1.1 Establishment of M&S Knowledge Repository

A Modeling and Simulation (M&S) Knowledge Repository (MSKR) has been created under the domain name of http://www.acm-sigsim-mskr.org/ as shown below.

ACM SIGSIM M&S Knowledge Repository

Association for Computing Machinery (ACM)
Special Interest Group (SIG) on Simulation and Modeling (SIM)

Editor-in-Chief
Osman Balti
Virginia Tech

Contributors
Paul Fishwick
Ernest H. Page, Jr.
John Tufaro

Call for Contributions

Happy 40th Birthday SIGSIM!

Ray J. Paul receives the 2008 ACM SIGSIM Distinguished Contributions Award

Dr. Richard E. Nance (ACM Fellow) presents the award to Dr. Ray J. Paul (right) at the 2008 Winter Simulation Conference in Miami, FL

Ray J. Paul’s Acceptance Speech
Introductory content with hyperlinks has been added for 17 different areas of M&S. Some M&S resources are provided. The entire content is searchable and password protected for use only by SIGSIM members. The objective is to provide valuable content to SIGSIM members, by which to increase SIGSIM membership.

The site currently runs on a Virginia Tech server computer. It will be ported to an ACM server soon so that SIGSIM members can use their ACM logon information to access the MSKR site.

1.2 Bylaws Change

SIGSIM Bylaws Article 1.a is changed from
“…Special Interest Group on Simulation (SIGSIM)…” to
“…Special Interest Group on Simulation and Modeling (SIGSIM)…”; and

SIGSIM Bylaws Article 1.b is changed from
“…computer-based models.” to “…modeling and simulation.”

The modified SIGSIM Bylaws Article 1 is shown below and fully provided at http://www.acm.org/sigs/bylaws-contents/sim_bylaws/

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**ACM SIG Bylaws: SIGSIM**

**BYLAWS**

of the

Special Interest Group on

Simulation and Modeling (SIGSIM)

of the

Association for Computing Machinery

Adopted 1981

Amended July 22, 2009

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**Article 1. Name and Scope**

a. This organization will be called the Special Interest Group on Simulation and Modeling (SIGSIM) of the Association for Computing Machinery, Inc. (“the ACM”); it will be referred to herein as “the Group”.

b. The scope of SIGSIM specialty is development and dissemination of theory, methodology and applications related to modeling and simulation.
1.3 Establishment of SIGSIM Advisory Board

An Advisory Board is established with the following Chair and members:

**Richard E. Nance, Chair**  
ACM Fellow  
Professor Emeritus of Computer Science  
Virginia Tech  
Blacksburg, Virginia, USA

**Paul Fishwick**  
Professor  
Department of Computer & Information Science and Engineering  
University of Florida  
Gainesville, Florida, USA

**Richard M. Fujimoto**  
Professor  
Computational Science and Engineering Division  
Georgia Institute of Technology  
Atlanta, Georgia, USA

**David M. Nicol**  
Professor, ACM Fellow  
Department of Electrical and Computer Engineering  
University of Illinois at Urbana-Champaign  
Urbana, Illinois, USA

**Ernest H. Page, Jr.**  
Senior Principal Scientist  
The MITRE Corporation  
McLean, Virginia, USA

**Simon J.E. Taylor**  
Reader / Senior Lecturer  
Department of Information Systems and Computing  
Brunel University  
West London, England

**Alexander Verbraeck**  
Professor  
Department of Systems Engineering  
Delft University of Technology  
Delft, The Netherlands
1.4 New SIGSIM Membership Dues Adopted

Membership dues are changed as follows:

<table>
<thead>
<tr>
<th></th>
<th>ACM Member</th>
<th>ACM Non-Member (Affiliate)</th>
<th>Subscriber</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Professional</td>
<td>Student</td>
<td>Professional</td>
</tr>
<tr>
<td>USA (Regular Mail)</td>
<td>$19</td>
<td>$9</td>
<td>$29</td>
</tr>
<tr>
<td>Other Countries (Airmail Service)</td>
<td>$26</td>
<td>$16</td>
<td>$36</td>
</tr>
</tbody>
</table>

2 Mission

ACM SIGSIM mission is to promote and disseminate the advancement of high quality state-of-the-art in Modeling and Simulation (M&S) across a broad range of interests and disciplines.

3 Member Benefits

- SIGSIM-members-only access to ACM SIGSIM M&S Knowledge Repository
- Proceedings (CD) of each Winter Simulation Conference (WSC) mailed to each SIGSIM member
- Proceedings (hard copy) of each International Workshop on Principles of Advanced and Distributed Simulation (PADS) mailed to each SIGSIM member
- Discounted conference attendance fees for many conferences including WSC and PADS.
- SIGSIM members are granted full on-line access to the proceedings of the SIGSIM sponsored / supported conferences in the ACM Digital Library.

4 Journal - TOMACS

SIGSIM’s journal is the ACM Transactions on Modeling and Computer Simulation (TOMACS).
5 Membership

Membership from 2005 to 2009:

Membership Retention from 2005 to 2009:
6 Management

Current Officers Elected for the Term 2008-2011:

Chairman: Osman Balci
Vice Chairman: Drew Hamilton
Secretary/Treasurer: Margaret Loper

Webmaster & Listserv Moderator:

• Simon J.E. Taylor

M&S Knowledge Repository Editor-in-Chief

• Osman Balci

Advisory Board

• Richard E. Nance, Chair
• Paul Fishwick
• Richard M. Fujimoto
• David M. Nicol
• Ernest H. Page, Jr.
• Simon J.E. Taylor
• Alexander Verbraeck

SIGSIM Distinguished Contributions Award Committee:

• Richard E. Nance, Chair
• David M. Nicol
• George F. Riley
• Stewart Robinson
7 Awards

1. SIGSIM Distinguished Contributions Award

The SIGSIM Distinguished Contributions Award recognizes individuals based on their overall contributions to the field of modeling and simulation, including technical innovations, publications, leadership, teaching, mentoring, and service to the community. It is given annually at each Winter Simulation Conference.

The 2008 award was given to Prof. Ray J. Paul at Brunel University, UK.

2. ACM SIGSIM Best Ph.D. Student Paper Award

The SIGSIM Best Ph.D. Student Paper Award is given as part of the Ph.D. Colloquium and Poster Session at each Winter Simulation Conference.

The 2008 award was given to Volkan Üstün at Auburn University.

8 Conferences

8.1 SIGSIM Sponsored Conferences

<table>
<thead>
<tr>
<th>Acronym</th>
<th>Conference / Workshop</th>
<th>Proceedings Published in ACM Digital Library</th>
</tr>
</thead>
<tbody>
<tr>
<td>WSC</td>
<td>Winter Simulation Conference</td>
<td>1971-2008</td>
</tr>
<tr>
<td>PADS</td>
<td>Workshop on Principles of Advanced and Distributed Simulation (a.k.a. Workshop on Parallel and Distributed Simulation)</td>
<td>1993-2008</td>
</tr>
</tbody>
</table>
8.2 Conferences with SIGSIM In-Cooperation Agreements

<table>
<thead>
<tr>
<th>Acronym</th>
<th>Conference / Workshop</th>
<th>Proceedings Published in ACM Digital Library</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>• Agent-Directed Simulation (ADS)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• 42nd Annual Simulation Symposium (ANSS)</td>
<td></td>
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<td></td>
<td>• Business and Industry Symposium (BIS)</td>
<td></td>
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<td></td>
<td>• 12th Communications and Networking Simulation Symposium (CNS)</td>
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<td></td>
<td>• DEVS Integrative M&amp;S Symposium (DEVS)</td>
<td></td>
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<td></td>
<td>• High Performance Computing Symposium (HPC)</td>
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<td></td>
<td>• Military Modeling and Simulation Symposium (MMS)</td>
<td></td>
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<tr>
<td></td>
<td>• Modeling &amp; Simulation in Education (MSE)</td>
<td></td>
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<tr>
<td></td>
<td>• Modeling &amp; Simulation in Engineering (MSEng)</td>
<td></td>
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<tr>
<td>EOMAS</td>
<td>5th International Workshop on Enterprise &amp; Organizational Modeling and Simulation (June 8-9, 2009, Amsterdam, The Netherlands)</td>
<td>to appear</td>
</tr>
<tr>
<td>MSI 2009</td>
<td>The IASTED International Conference on Modelling, Simulation and Identification (Oct. 12-14, 2009, Beijing, China)</td>
<td>to appear</td>
</tr>
<tr>
<td>IPS-MoMe</td>
<td>4th International Workshop on Internet Performance, Simulation, Monitoring and Measurement</td>
<td>2006</td>
</tr>
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</table>
9 Financials

Fund Balance as of June 30, 2009:

<table>
<thead>
<tr>
<th>Amount</th>
<th>Required</th>
<th>Discretionary</th>
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<tbody>
<tr>
<td>$0</td>
<td>$20,000</td>
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<tr>
<td>$60,000</td>
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</tr>
<tr>
<td>$140,000</td>
<td>$160,000</td>
<td></td>
</tr>
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10 SIGSIM’s 40th Birthday

SIGSIM was first created as a Special Interest Committee on Simulation in 1967. It was founded as a Special Interest Group (SIG) in April 1969.

We will be celebrating SIGSIM’s 40th birthday throughout 2009.