

Minutes for the 2012 ACM SIGSIM Business Meeting
Tuesday, December 11, 2012
Knight Room, Intercontinental Hotel Berlin, Germany

The meeting was called to order at 6:35pm by Paul Fishwick, Chair of ACM SIGSIM. The members present at the meeting are listed in attachment A. The meeting agenda had been announced per email before the meeting and was accepted.

Discussion: The update of journal related activities (TOMACS) shall become a standing point for ACM SIGSIM business meetings. As none of the responsible editors were present, the point was not included into the agenda. Also, at least one editor (TOMACS) could not have been present and stated this in communication with Fishwick. There was another meeting for I-SIM occurring at the same time as SIGSIM's meeting. Future item: ensure that the SIGSIM meetings do not conflict with related society meetings.

Welcome, SIGSIM mission, and agenda (Fishwick)

Paul Fishwick welcomes the members present and thank for the support the board received in the recent year. Margaret Loper (Vice Chair) and Andreas Tolk (Secretary and Treasurer) were introduced as members of the board.

Business overview (budget spreadsheet) (Tolk)

Andreas Tolk presented the business graphics collected in attachment B. Overall the financial situation of ACM SIGSIM is solid. We will be able to continue to support student activities as initiated for this year (2012) for the first time. Special items for the 2012 business year were travel grants for 12 students a \$1,000 and the donation to the Simulation Archive of \$5,000 as discussed and decided during the 2011 ACM SIGSIM business meeting. The slow tempo of integrating SIGSIM relevant proceedings into the ACM Digital Library affected the income of SIGSIM negatively. The problem is recognized and ACM HQ promised in preparation phone calls to address this problem immediately. A budget sheet is attached as attachment C.

PhD Colloquium Status (Tolk)

Together with INFORMS-SIM, ACM SIGSIM conducted the PhD Colloquium 2012. 28 students prepared presentations and posters, 17 of them were main authors of regular papers. The 2012 ACM SIGSIM best paper award for computational contributions has been awarded to Christian Hammel, Technical University of Dresden, for his paper on "Network Optimization prior to Dynamic Simulation of AMHS" who participated in the meeting. The slides for the presentation are attachment D.

2013 SIGSIM-PADS conference (Loper)

Setting up the ACM SIGSIM owned conference was one of the main activities in 2012. Margaret Loper, who is also General Chair of the upcoming SIGSIM conference, presented the status in the slides attached as attachment E. As discussed during the business meeting 2011, the former conference on "Principles of Advanced Distributed Simulation (PADS)" sponsored by IEEE/SCS/ACM was transformed in accordance with IEEE and SCS into the uniquely sponsored by ACM SIGSIM conference on "Principles of Discrete Simulation (SIGSIM PADS). The first conference will be conducted in the Omni Mont-Royal, Montreal, Quebec, May 19-22, 2013.

New SIGSIM Website and MSKR progress (Mustafee)

Paul Fishwick recognized the contributions of Osman Balci, who is responsible as the Editor in Chief for the ACM SIGSIM web presence. The new website was very well received by all members present.

Navonil Mustafee presented the ongoing work on the educational M&S videos that are becoming part of the M&S Knowledge Repository (MSKR). Together with Saikou Diallo and his students Hamdi Kavak and Olcay Sahin, he initially set up the video archive that is tagged following the ACM SIGSIM taxonomy extended by tags chosen by the authors and the editorial committee. The group uses the software “The Brain” to administer the taxonomy. The presentation builds attachment F.

M&S Grand Challenge Initiative (Taylor)

Simon Taylor presented a new initiative conducted during ACM SIGSIM and SCS related conferences. 10 years after the original conference on grand challenges in M&S, conducted as a Dagstuhl seminar in Germany, he is organizing a new round of expert panels. The first was conducted during WSC 2012, two following panels are planned to be conducted during the Spring Simulation Multiconference 2013 in San Diego, CA, and the SIGSIM PADS 2013 in Montreal, Quebec.

The SIGSIM MSKR shall include a link to the Dagstuhl report, that summarizes the initial activities, as well as new and upcoming reports related to this initiative.

The presentation is attached as attachment G.

Student travel award program (Overstreet)

The initial committee on the student travel award program comprised Dick Nance and Andreas Tolk and was chaired by Mike Overstreet. 12 students received a travel award to participate in the WSC 2012. They had to apply for the grant, support an ACM related activity during the WSC, and show how their work contributes to the discipline of M&S. Details are given in attachment H.

Discussion: we should institutionalize this kind of support for WSC and SIGSIM PADS.

Robert Sargent made the motion (seconded by Paul Fishwick) to set up a committee to work out the details comprising of Dave Nicol, Simon Taylor, and Mike Overstreet. There were no objections.

Simulation Archives (Sargent)

Robert Sargent gave an update on the work of the Simulation Archive. He thanked in particular for the \$5,000 donation by ACM SIGSIM. By now, all WSC proceedings are digitized and archived. The effort is fully supported by local groups, as the donations and activities show the support of the M&S community.

Simon Taylor made the motion (seconded by Dave Nicol) to donate again \$5,000 to the Simulation Archive efforts. There were no objections.

SIGSIM Recognition Award to Bob Sargent (Overstreet)

Mike Overstreet gave the official laudatio for Robert Sargent, who received this year the ACM SIGSIM Distinguished Contributions Award:

“The 2012 ACM SIGSIM Distinguished Contributions Award is presented to Dr. Robert G. Sargent. The goal of this award is to recognize individuals whose contributions to the field of modeling and simulation (M&S) are truly distinctive over an extended period of time and Dr. Sargent’s activities epitomize this goal. His contributions to the profession are distinguished and too numerous to enumerate but as a brief summary: he has been elected to leadership positions in premier M&S societies; he has held and continues to hold editorial responsibilities in many M&S publications; he held important leadership positions, including WSC chair, for several M&S conferences; his scholarly contributions through scholarly publications are highly regarded by the M&S community; his contributions to M&S education through teaching and the mentoring of both students and colleagues is broad and continuing. In addition, he led in the creation of the WSC Foundation, serving as its first president; and conceived the idea of having a simulation archive.”

General Discussion and New Business (All)

- Dave Nicol reported that WSC 2012 was well in the black numbers. It is very likely that WSC will therefore return to Europe in the near future. Sweden offered to host the venue, but no decision has been made so far.
- Dave Nicol thanked Ernie Page for his service as he stepped down after having been for 12 years on the WSC Advisory Board.
- John Tufarolo became the new information officer and relieves Simon Taylor.

The meeting was closed by the chair at 7:55pm.

December 11, 2012, AT

ACM SIGSIM Business Meeting Dec 11, 2012

Name:

Jure Bordon
Fanny Boulaire
Andy Bowers
Stephen Davies
Masoud Fakhimi
Paul Fishwick
Christian Hammel
Ronald A. Halim
Margaret Loper
Navonil Mustafee
Dave Nicol
Mike Overstreet
Ernie Page
Juan Pablo Saenz
Bob Sargent
Tom Schriber
Claudia Szabo
Simon Taylor
Andreas Tolk
John Tufarolo
Rene Valenzuela
Sisuan Wang

Email:

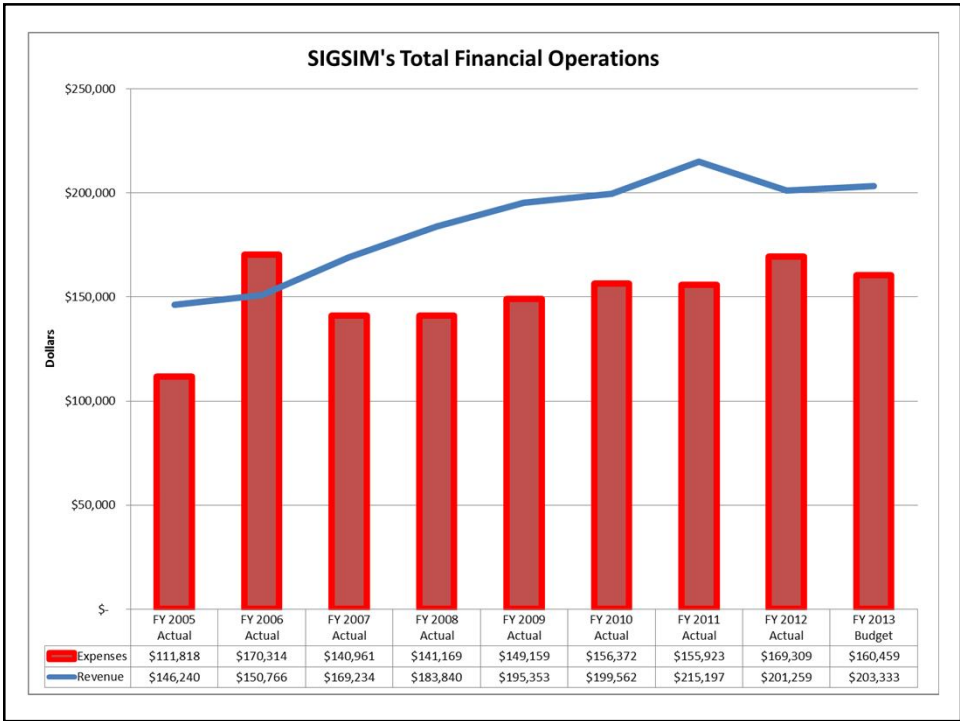
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fanny.boulaire@gut.edu.au
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fakhimimasoud@yahoo.co.uk
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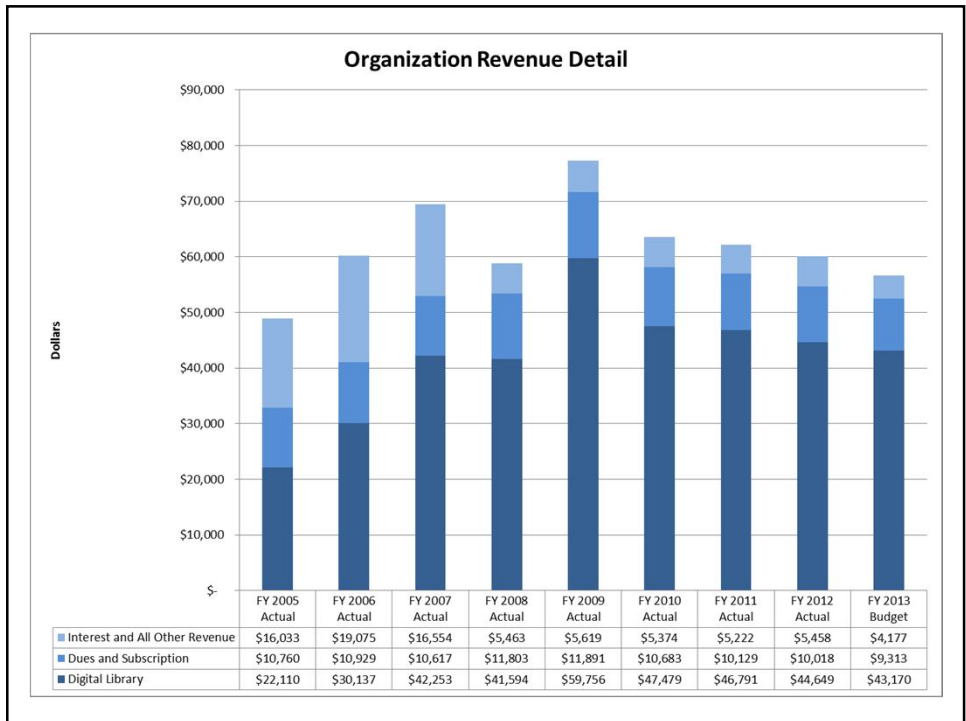
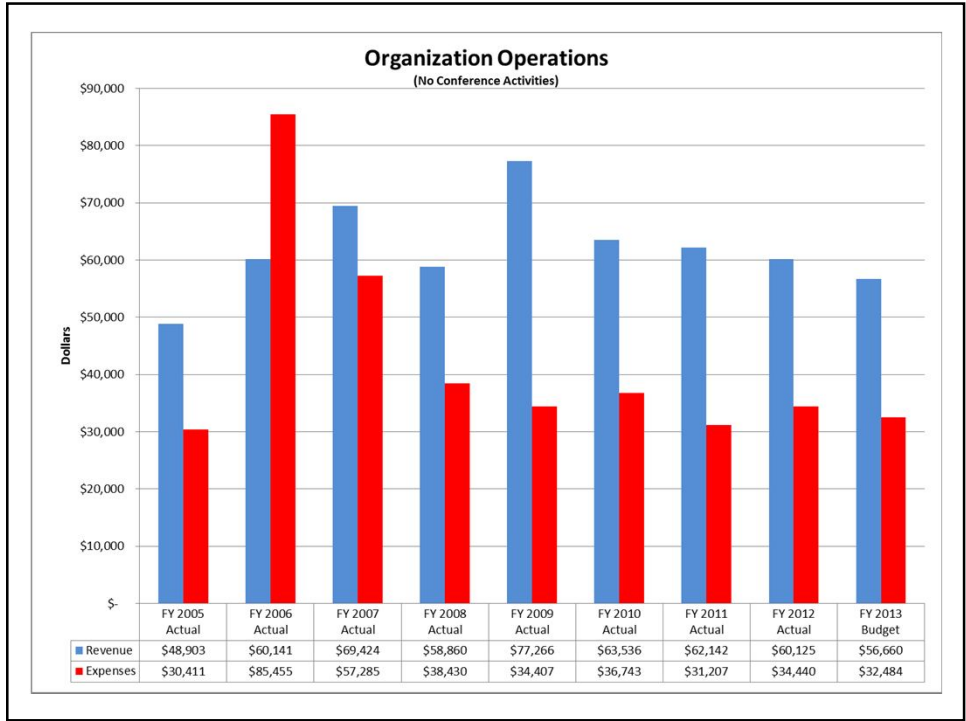
SIGSIM

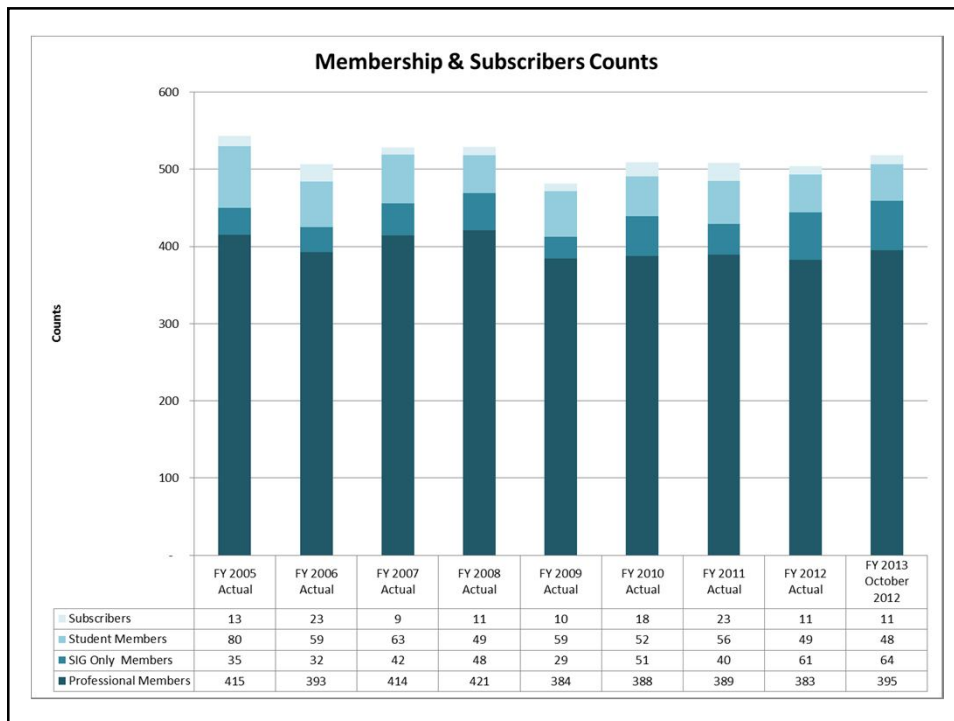
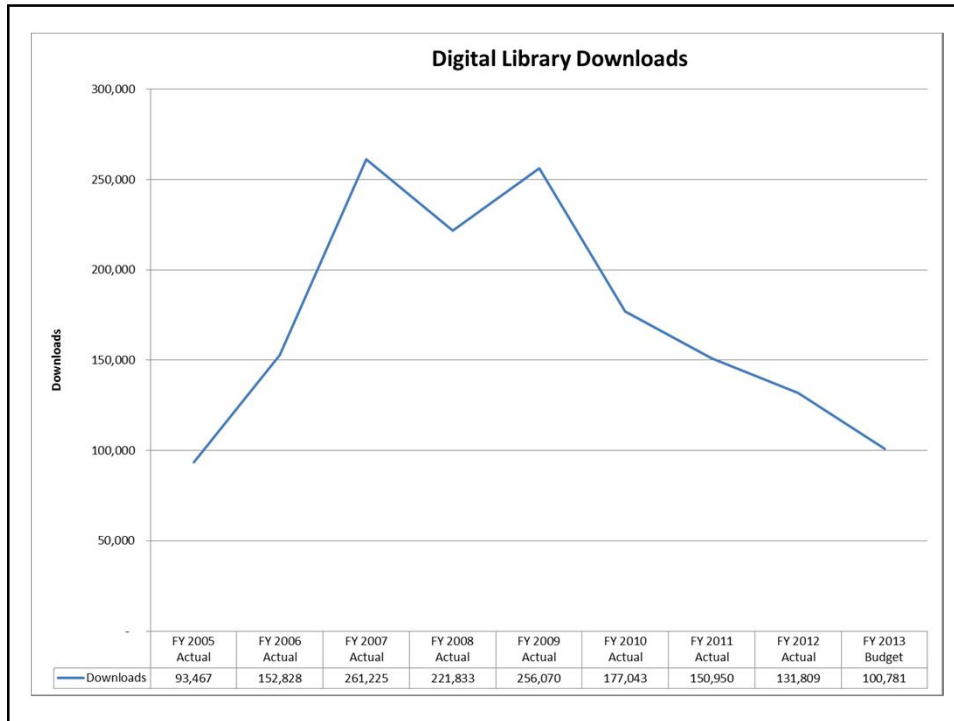
Simulation and Modeling

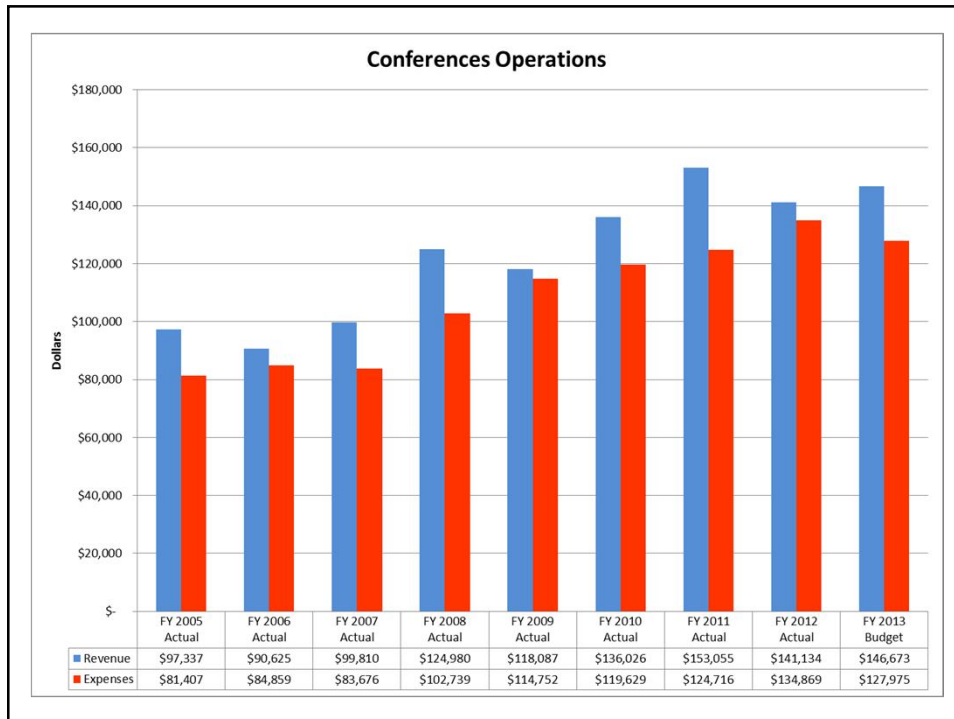
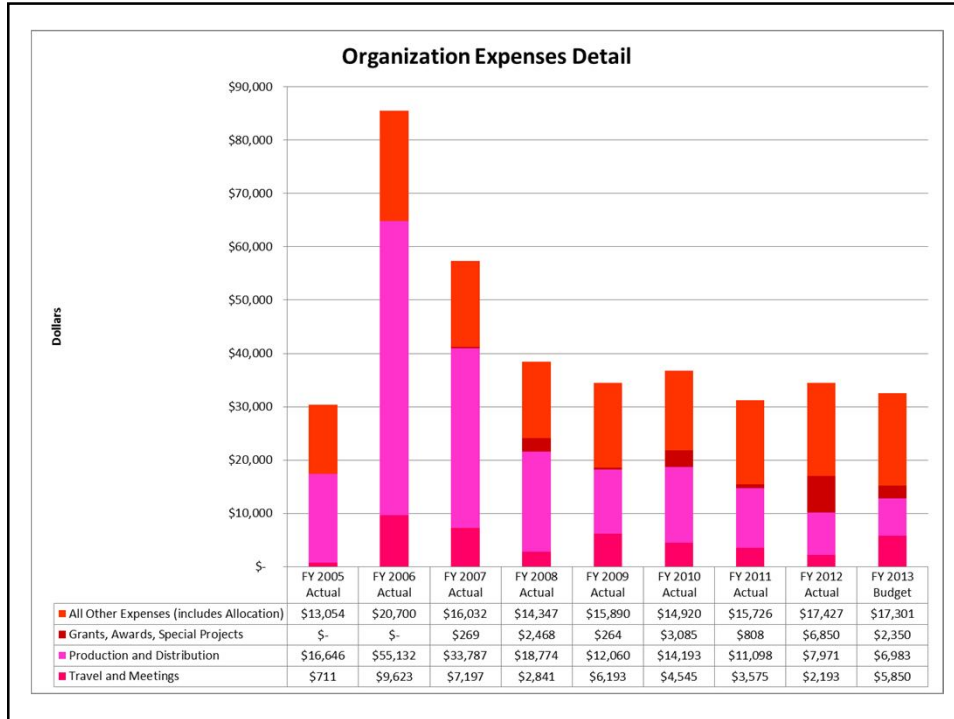
Financial Overview

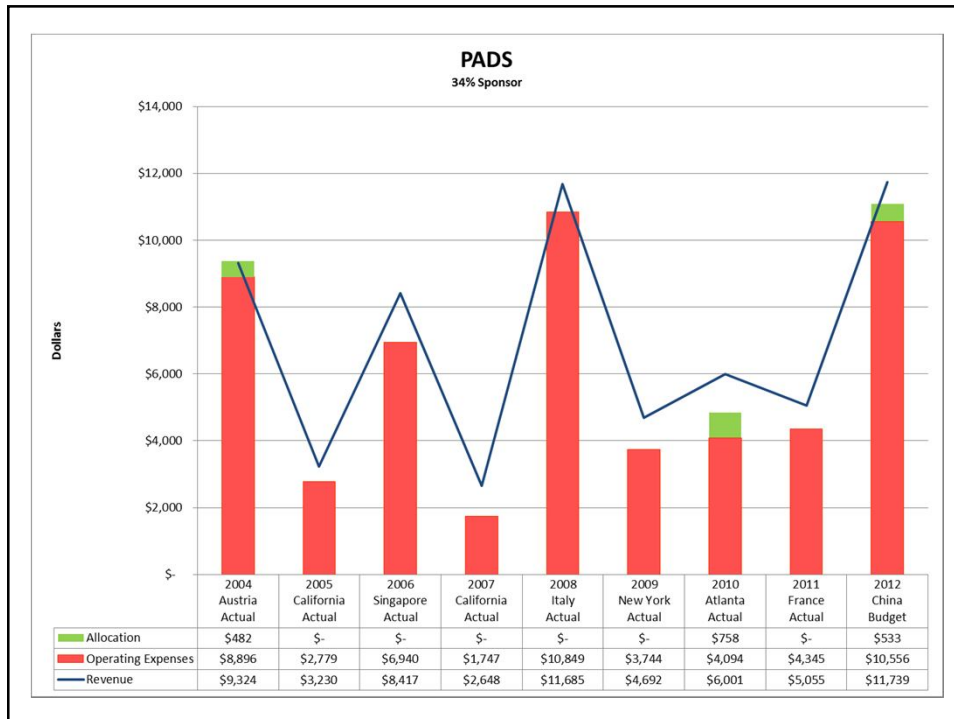
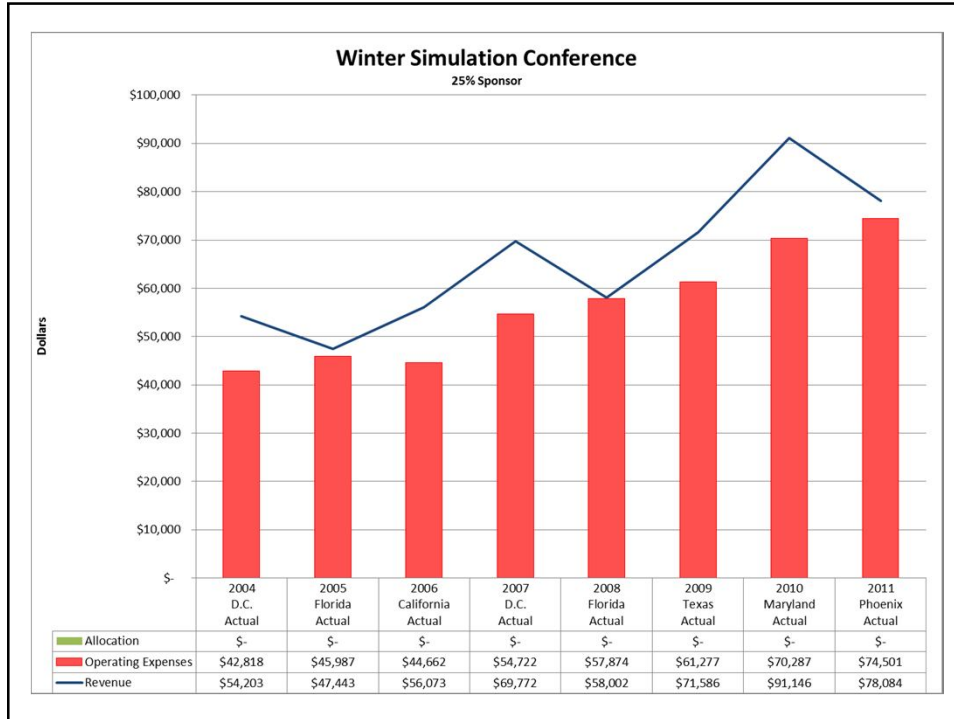
- Total Financial Operations
- Organization Operations (Conferences Excluded)
- Organization Revenue Detail
 - Digital Library Downloads
 - Membership Counts
- Organization Expenses
- Conferences Operations
 - WSC
 - PADS
 - MsWIM
 - DS-RT
- Fund Balance

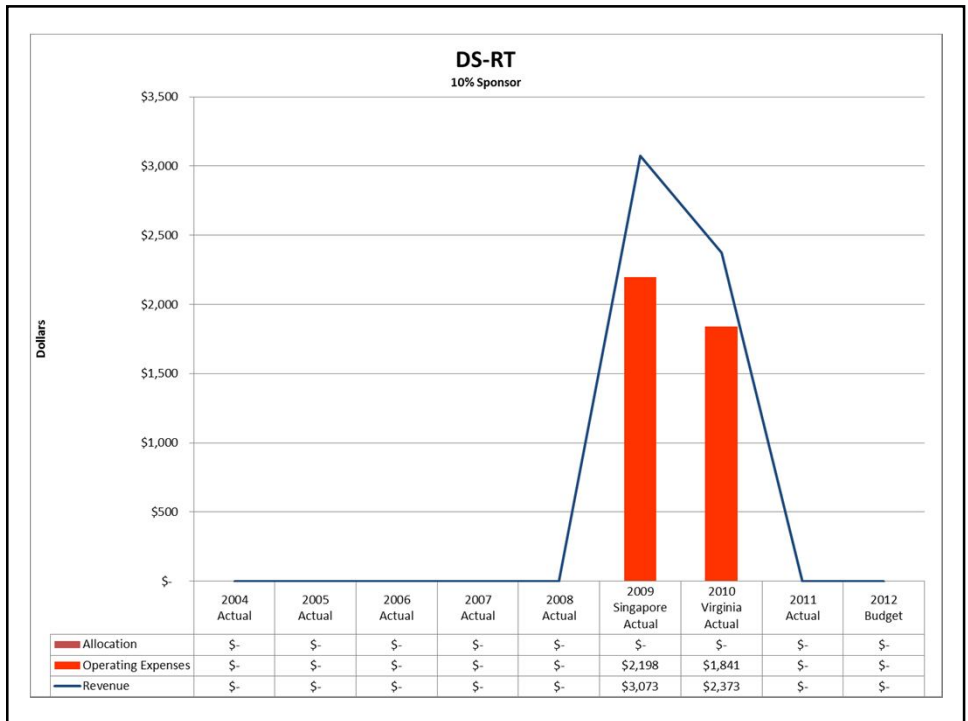
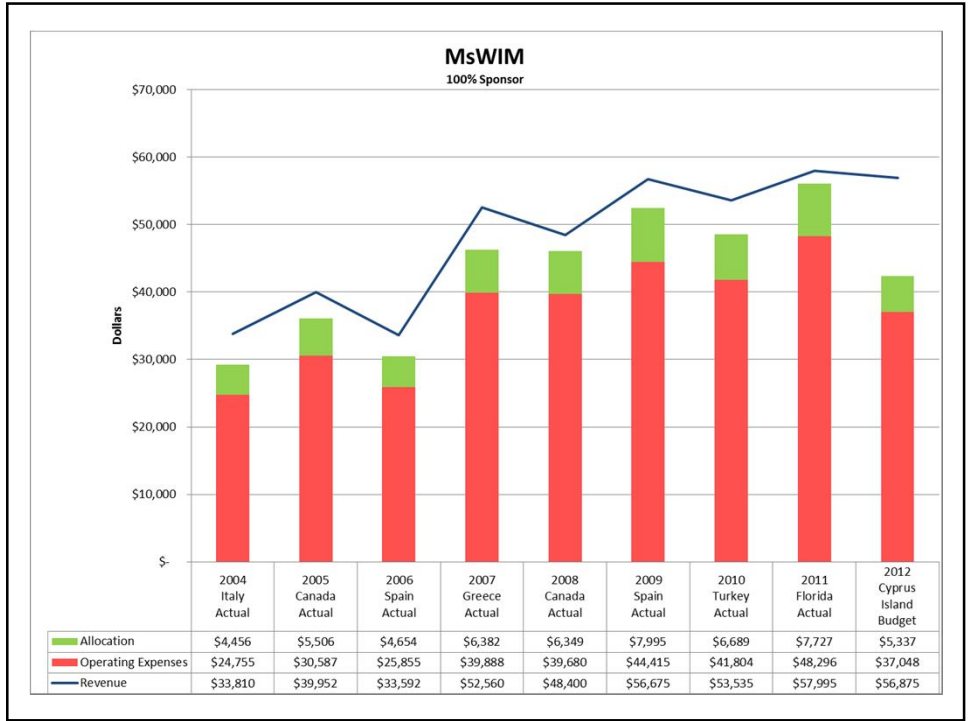


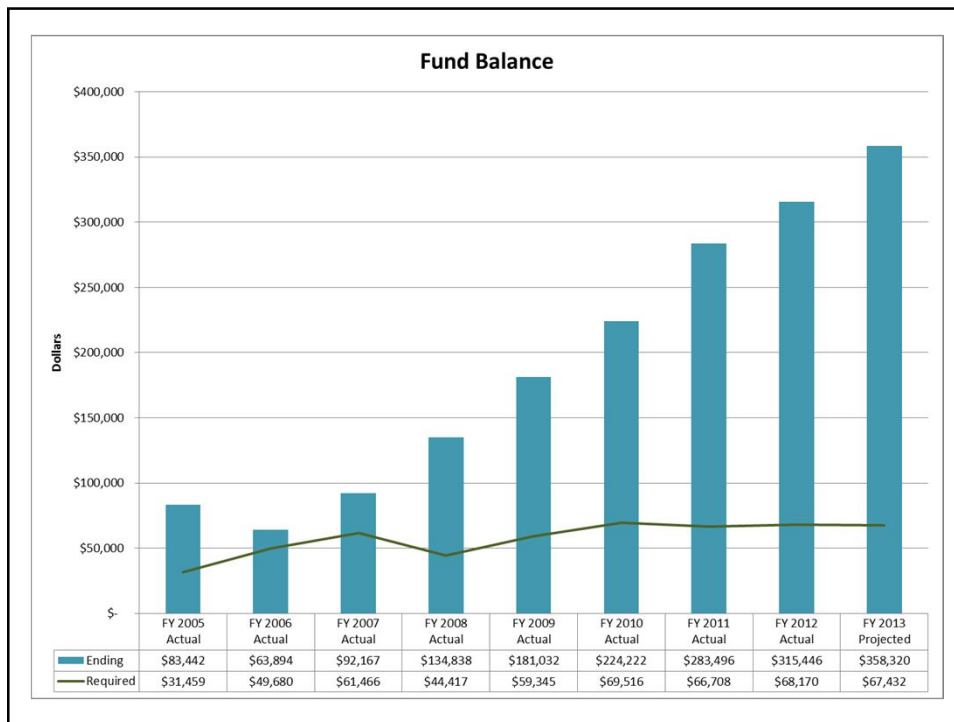














Level 4
 Period Ended:
 October 2012

Financial Management Report

Account Name	Acct No	2078		SIG SIM			Full Year Budget \$	Proj (\$000)	
		Month of October			Year To Date				
		Actual \$	Budget \$	Variance \$	Actual \$	Budget \$			Variance \$
Revenue									
SIG DUES	619	752.41	752.00	0.41	3,012.10	3,008.00	4.10	9,023.00	9
SIG NON MEMB SUBS	623	29.03	24.00	5.03	157.14	96.00	61.14	290.00	0
DIGITAL LIBRARY	628	0.00	0.00	0.00	43,170.00	41,206.00	1,964.00	41,206.00	41
PROCEEDINGS SALES	632	0.00	8.00	(8.00)	0.00	32.00	(32.00)	100.00	0
CONFERENCE REVENUE	651	0.00	0.00	0.00	0.00	0.00	0.00	146,673.00	147
INTEREST INCOME DISTRIB.	692	489.00	501.00	(12.00)	1,793.00	2,004.00	(211.00)	6,013.00	6
EXPEDITED SERVICE	695	2.90	2.00	0.90	12.22	8.00	4.22	28.00	0
Total Revenue		1,273.34	1,287.00	(13.66)	48,144.46	46,354.00	1,790.46	203,333.00	203
Direct Expenses									
VOLUNTEER TRAVEL	812	671.07	133.00	(538.07)	671.07	532.00	(139.07)	1,600.00	2
COMMUNICATIONS	833	0.00	6.00	6.00	0.00	24.00	24.00	75.00	0
MAILING & HANDLING	834	0.00	10.00	10.00	0.00	40.00	40.00	125.00	0
PRODUCTION EXPENSE	841	0.00	380.00	380.00	6,864.50	1,520.00	(5,344.50)	4,560.00	5
DISTRIBUTION EXPENSE	842	2,838.37	202.00	(2,636.37)	2,838.37	808.00	(2,030.37)	2,423.00	2
WEB PAGE CONSULT/DESIGN	857	0.00	0.00	0.00	100.00	0.00	(100.00)	0.00	0
AWARDS	873	0.00	588.00	588.00	0.00	1,176.00	1,176.00	2,350.00	2
MTGS & SPEC FUNCTIONS	882	0.00	354.00	354.00	0.00	1,416.00	1,416.00	4,250.00	4
CONFERENCE EXPENSE	891	0.00	0.00	0.00	0.00	0.00	0.00	127,975.00	128
ALLOCATIONS	900	1,825.00	1,825.00	0.00	7,300.00	7,300.00	0.00	21,898.00	22
SIGBRD ALLOC TO SIGS	903	89.42	89.00	(0.42)	357.68	356.00	(1.68)	1,073.00	1
SERVICE CHG TO CONFS	904	0.00	0.00	0.00	0.00	0.00	0.00	(5,870.00)	(6)
Total Direct Expenses		5,423.86	3,587.00	(1,836.86)	18,131.62	13,172.00	(4,959.62)	160,459.00	160
Total Expenses		5,423.86	3,587.00	(1,836.86)	18,131.62	13,172.00	(4,959.62)	160,459.00	160
Net Surplus / (Deficit)		(4,150.52)	(2,300.00)	(1,850.52)	30,012.84	33,182.00	(3,169.16)	42,874.00	43

Fund Balance Summary:

Opening Fund Balance as of 6/30/2012	315,443.18
Current Fund Balance:	345,456.02

ACM-SIGSIM PhD Colloquium and Best Student Paper Award

Purpose: To recognize exceptional papers presented at this year's Ph.D. Colloquium. Awards given for the best application-focused paper (INFORMS-SIM) and the best computation-focused paper (ACM-SIGSIM).

Selection Committee 2012:

Andreas Tolk (Chair)

Nurcin Celik

Mamadou Seck

Ali Tafazzoli

PhD Colloquium WSC 2012

- 17 accepted papers with PhD Candidates as main authors
- 11 extended abstract submitted to the PhD Colloquium
- PhD Colloquium Organization
 - Lin Uhrmacher: Seven Pitfalls in M&S Research
 - 4 Sessions: 10 min per paper, 2 ½ min discussion
 - Poster Session: 6:15pm – 7:30pm

ACM-SIGSIM
Best Student Paper Award

**Network Optimization prior to
Dynamic Simulation of AMHS**

Christian Hammel
Technische Universität Dresden



ACM SIG on Simulation and Modeling

ACM-SIGSIM Conference on Principles of Advanced Discrete Simulation (SIGSIM-PADS)

Margaret Loper

ACM SIGSIM-PADS 2013



ACM SIG on Simulation and Modeling

- New flagship conference for ACM built on the strong history of PADS
 - Emphasis on high quality, peer-reviewed papers
 - Build on PADS reputation for quality
- Goal: Become the premier conference focused on computational aspects of simulation
 - Intersection of computer science and modeling and simulation
- Same acronym, new name:
ACM-SIGSIM Principles of Advanced Discrete Simulation

Simulation Technology



ACM SIG on Simulation and Modeling

- Advanced modeling techniques, and their execution using novel simulation algorithms
- Agent-based modeling and simulation.
- Algorithms and methods for parallel or distributed simulation, including synchronization, scheduling, memory management, and load balancing.
- Applications of large-scale or distributed simulation methods.
- Development of advanced simulation engines
- Distributed simulation.
- Integration of simulation with other IT systems, including automatic simulation model generation and initialization and simulation based decision-making.
- GPU, FPGA and hybrid architecture acceleration
- Mechanisms for efficient design of experiments.
- Modeling and Simulation applied to solve problems in previously difficult or impossible domains.
- Online and symbiotic simulation.
- Parallel algorithms and high performance simulation.
- Real-Time and Embedded Simulation
- Simulation as emulation of real systems.
- Simulation visualization techniques.
- Techniques for constructing scalable simulations.
- Tools and techniques for interoperability of simulations

ACM SIGSIM-PADS 2013



ACM SIG on Simulation and Modeling

- Conference Committee
 - General Chair: Margaret Loper (Georgia Tech, USA)
 - Program Chair: Gabriel Wainer (Carleton University, Canada)
 - Workshop/Tutorials: Levent Yilmaz (Auburn University, USA)
 - Publicity: Richard Fujimoto (Georgia Tech, USA)
 - General Chair (2014): Drew Hamilton (Auburn University, USA)
 - Program Chair (2014): Lin Uhrmacher (University of Rostock, Germany)
- Steering Committee
 - Paul Fishwick (University of Florida, USA)
 - Drew Hamilton (Auburn University, USA)
 - Jason Liu (Florida International University, USA)
 - David Nicol (University of Illinois at Urbana-Champaign, USA)
 - George Riley (Georgia Tech, USA)

Program Committee



ACM SIG on Simulation and Modeling


- Osman Balci, Virginia Tech, USA
- Fernando Barros, University of Coimbra, Portugal
- Wengtong Cai, Nanyang Technological University, Singapore
- Chris Carothers, Rensselaer Polytechnic Institute, USA
- Olivier Dalle, INRIA/University of Nice Sophia-Antipolis, France
- Andrea D'Ambrogio, University of Rome "Tor Vergata", Italy
- Roland Ewald, University of Rostock, Germany
- Tony Field, Imperial College, UK
- Paul Fishwick, University of Florida, USA
- Richard Fujimoto, Georgia Tech, USA
- Drew Hamilton, Auburn University, USA
- Xiaolin Hu, Georgia State University, USA
- David Jefferson, Lawrence Livermore National Lab, USA
- Franziska Klügl, Orebro University, Sweden
- Hillel Kugler, Microsoft Research, UK
- Jason Liu, Florida International University, USA
- Qi Liu, IBM Watson Research Center, USA
- David Nicol, University of Illinois at Urbana-Champaign, USA
- James Nutaro, Oak Ridge National Lab, USA
- Francesco Quaglia, University of Rome "La Sapienza", Italy
- Ernie Page, MITRE Corp., USA
- Kalyan Perumalla, Oak Ridge National Lab, USA
- Paul Reynolds, University of Virginia, USA
- George Riley, Georgia Tech, USA
- Hessam Sarjoughian, Arizona State University, USA
- Thomas Schulze, University of Magdeburg, Germany
- Steffen Strassburger, TU Ilmenau, Germany
- Claudia Szabo, University of Adelaide, Australia
- Carl Tropper, McGill University, Canada
- Bruno Tuffin, INRIA, France
- Adelinde Uhrmacher, University of Rostock, Germany
- Brian Unger, University of Calgary, Canada
- Kurt Vanmechelen, University of Antwerp, Netherlands
- Philip Wilsey, University of Cincinnati, USA
- Yiping Yao, National University of Defense Technology, China
- Levent Yilmaz, Auburn University, USA
- Brenda Zhuang, The MathWorks, USA

Conference Information




ACM SIG on Simulation and Modeling

- Important Deadlines
 - Paper submission deadline: February 1, 2013
 - Notification of acceptance: March 1, 2013
 - Camera-ready deadline: March 15, 2013
 - Conference: May 19-22, 2013
- Conference Venue
 - Omni Mont-Royal, Montreal, Quebec
- Website
 - <http://www.acm-sigsim-pads.org>



ACM SIGSIM

Special Interest Group (SIG) on Simulation and Modeling (SIM)




M&S Knowledge Repository
Modeling and Simulation Videos

MSKR video archive

Osman Balci (EIC)
Saikou Diallo and Navonil Mustafee (AEs)

M&S Videos with SIGSIM imprint



Call for Articles
Multimedia tutorial/educational articles and resources are solicited for publication in the ACM SIGSIM Modeling and Simulation Knowledge Repository (MSKR).

M&S videos from external providers (YouTube, Vimeo)

An API-based crawler program developed at the **Old Dominion University, VA**


- Hamdi Kavak
- Olcay Sahin
- Saikou Diallo

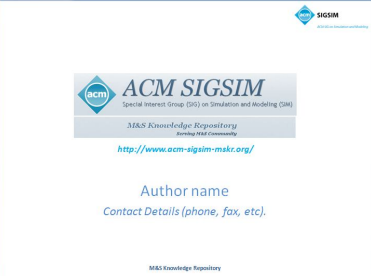
SIGSIM-produced M&S videos

Professional videos to be developed (WIP)

M&S Videos with SIGSIM imprint (cont.)

- Template**





- Copyright release**

Permission and Release Form for Video/Audio Submissions

ACM EVENT/PUBLICATION ACM SIGSIM M&S Knowledge Repository, <http://www.acm-sigsim-mskr.org/>

TITLE and TYPE of Presentation "A Lecture on the Art of Modeling"

Author/Presenter(s) Petr Fialwid

I hereby grant permission for ACM to include my presentation and comments (The Material), in any and all forms, for the above-named event and/or publication.

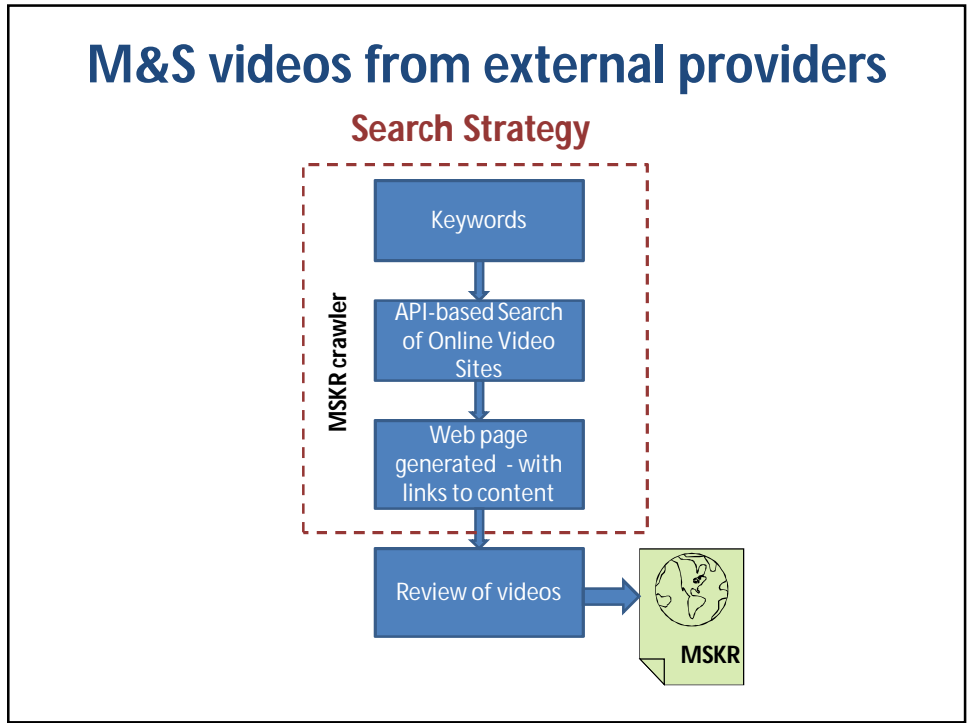
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- Expression of Interest**

Topic	Contributor
Combat Modeling	Andreas Tolk
Interoperability and Composability	Andreas Tolk
Multiresolution Modeling	Andreas Tolk
Agent-Based Geo-Simulation	Babak Mahdavi Ardestani
Game-based Training and Simulation and Performance based simulations	Curtis Conkey
Machine Interference Problem	Richard E. Nance



M&S videos from external providers *(cont.)*

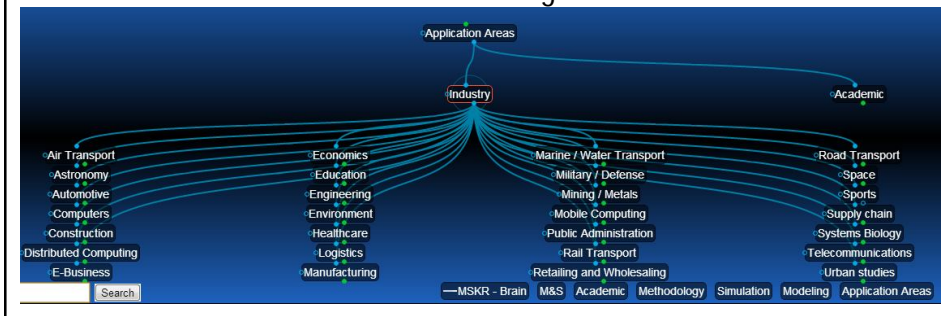
<http://manta.cs.vt.edu/mskr/>

Pointers to Future work

- Video sub-categories?

A	B	C	D	E	F	G
Agent-based M&S	Artificial Intelligence	System Dynamics	Discrete M&S	Distributed/Parallel Modeling and Simulation	Gaming-based M&S	In-the-loop M&S
Agent-based Distributed Simulation	Genetic Algorithm	Flow Simulation	Bayesian Networks	Distributed Simulation	Distributed Interactive Simulation	Hardware-in-the-Loop M&S
Multi-Agent M&S	Heuristic	Continuous Simulation	Petri Nets	Parallel Simulation	Virtual Reality Simulation	Human-in-the-Loop M&S
Agent-Based Geo-Simulation	Metaheuristic	Mesoscopic simulation	Markov-chain Modeling	Parallel and Distributed Simulation (PDS)	Serious Games	Software-in-the-Loop M&S
Cellular Automata	Particle Swarm Optimization	Hybrid Simulation	Discrete-Event Simulation	Grid-Based Simulation	Business Games	
Intelligent Agents	Simulation-based Optimization		Object-Oriented Discrete-Event Simulation	Distributed Interactive Simulation		
Hybrid Simulation	Neural Networks		Network simulation	Agent-Based Distributed Simulation		
	Fuzzy Logic		Trace-based Simulation	Web-based Distributed simulation		
			Mesoscopic simulation			
			Hybrid Simulation			

- MSKR crawler search for other online video sites, e.g., Vimeo.
- MSKR crawler with Brain-XML integration?





ACM SIGSIM

Special Interest Group (SIG) on Simulation and Modeling (SIM)



M&S Knowledge Repository
Modeling and Simulation Videos

Contributors (in alphabetical order):

Osman Balci
Saikou Diallo
Paul Fishwick
Hamdi Kavak
Navonil Mustafee
Andreas Tolk
Olcay Sahin

.. SIGSIM members who have expressed interest in developing content!

Call for Articles

Multimedia tutorial/educational articles and resources are solicited for publication in the ACM SIGSIM Modeling and Simulation Knowledge Repository (MSKR).

<http://www.acm-sigsim-mskr.org/callForArticles.htm>

Information Systems, Computing and Mathematics

Grand Challenge Initiative

Simon J E Taylor


Brunel
UNIVERSITY
WEST LONDON

ICT
Innovation Group 

Grand Challenges

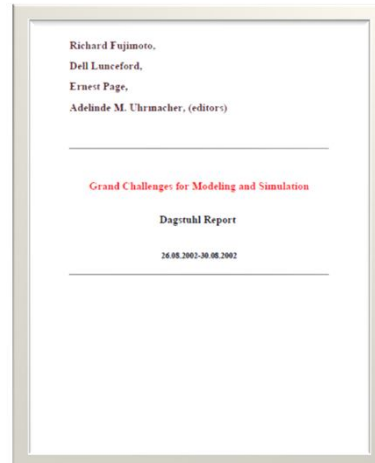
- Grand challenges provide a critical focal point for research and development and can potentially create the critical mass needed to bring substantial transformation and benefit to a community

Brunel
UNIVERSITY
WEST LONDON

2 

Schloss Dagstuhl 2002

- Workshop on Grand Challenges for Modeling and Simulation
- Report (Fujimoto, Luncford, Page and Uhrmacher, eds)
- www.dagstuhl.de/02351



Report

- 27 Abstracts
- 36 participants
- 8 Working Groups & Grand Challenges
 - Cellular Systems
 - Simulation of Air Traffic
 - Parallel/Distributed Simulation
 - Simulation in Military Applications
 - Modelling and Simulation Methods (e.g. Multimodeling)
 - Simulation as Part of Agent-Oriented Software Engineering
 - The Role of Simulation in Virtual Manufacturing
 - Network Simulation including Mobile, Wireless Networks

Grand Challenge Initiative

- Four Grand Challenge Panels
 - WSC 2012 – Done – Brilliant!
 - SpringSim 2013 – Formed
 - SIGSIM-PADS 2013
 - I-SIM 2013
- Planned Grand Challenge Workshop Program
 - North America
 - Europe
 - UK
 - South-east Asia
- Website under development

SIGSIM Student Travel Grants

- Up to 12 awards to attend 2012 WSC
- Requirements:
 - Ph.D. program
 - Research should advance field of simulation
 - Current member of SIGSIM
 - Willing to assist with conference at WSC – up to four hours
- Selection committee
 - Richard Nance, Virginia Tech
 - Andreas Tolk, Old Dominion University
 - Mike Overstreet, Old Dominion University

2012 Recipients

Name	Institution	Location
Huashuai Qu	University of Maryland	College Park, MD, USA
Rene Valenzuela	Georgia Tech	Atlanta, GA, USA
Chang-han Rhee	Stanford University	Stanford, CA, USA
Shalini Chauhan	North Carolina State University	Raleigh, NC, USA
Apl Akcay	Carnegie Mellon University	Pittsburgh, PA, USA
Masoud Fakhimi	Swansea University	Swansea, United Kingdom
Fanny Boulaire	Queensland University of Technology	Bulimba, Queensland, Australia
Sixuan Wang	Carleton University	Ottawa, ON, Canada
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