



INSTITUTE FOR OPERATIONS RESEARCH
AND THE MANAGEMENT SCIENCES

I-Sim Newsletter

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President's Message

Jie Xu

After a period of disruptions caused by COVID-19 pandemic, I am pleased to report that there was a significant in-person presence of I-Sim members at both the 2022 INFORMS Annual Meeting and the 2022 Winter Simulation Conference (WSC). The INFORMS 2022 Annual Meeting returned to an in-person format and was a huge success. WSC was held in Asia for the first time and featured a hybrid format that also attracted a large in-person attendance at the distinctive Marina Bay Sands Hotel in Singapore. I-Sim held two business meetings in hybrid mode at both INFORMS 2022 and WSC 2022. In accordance with the tradition, at the business meeting in WSC 2022, I-Sim presented four important society awards to recognize I-Sim members and celebrate their accomplishments:

In accordance with the tradition, at the business meeting in WSC 2022, I-Sim presented four important society awards to recognize I-Sim members and celebrate their accomplishments:

- Lifetime Professional Achievement Award: Barry L. Nelson
- Distinguished Service Award: Loo Hay Lee (posthumous)
- Outstanding Publication Award: Soumyadip Ghosh and Henry Lam
- WSC Diversity Award: Ignacio Erazo, Maria

The *INFORMS Simulation Society Newsletter* is published in the spring and fall each year by the INFORMS Simulation Society (I-Sim), <http://connect.informs.org/simulation/>. Membership in I-Sim is independent of INFORMS membership. To join, visit <https://www.informs.org/About-INFORMS/Member-Benefits/Join-INFORMS-and-or-INFORMS-Communities>, or contact the I-Sim Secretary. © 2023 The Institute for Operations Research and the Management Sciences. All rights reserved.

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President's Message, Continued

Jie Xu

Hajlasz, Yutong Zhang

With an exceptional record of research, mentoring, teaching, and service in the simulation field, Professor Barry Nelson will be retiring in May 2023. The Lifetime Professional Achievement Award was a fitting tribute to celebrate Professor Nelson's career that has brought fundamental advances to simulation research and has impacted the careers of numerous I-Sim members, myself included, with the privilege of being one of Professor Nelson's PhD advisees.

The Distinguished Service Award was awarded posthumously to Professor Loo Hay Lee of National University of Singapore. The passing of Loo Hay was very sad news to both the I-Sim community and myself. Loo Hay was the main driving force to have WSC 2022 come to Asia. In honor of Loo Hay's outstanding professional accomplishments and his contributions to I-Sim, the award committee posthumously awarded him the Distinguished Service Award. Thanks to the efforts of Professor Chun-Hung Chen of George Mason University and the co-sponsorship from I-Sim, a special memorial workshop was held right before the opening ceremony of WSC 2022 to celebrate Professor Lee's life and brought back many touching memories.

More details about the 2022 I-Sim awardees can be found on I-Sim website. Nominations for this year's I-Sim awards are currently being accepted and details can also be found on the website.

After facing a decline in membership count due to the impact of COVID-19, like many other INFORMS societies, I-Sim is pleased to report that our membership count is on a healthy track to recovery as we were able to resume in-person activities. We encourage you to read the Secretary's report prepared by Professor Henry Lam of Columbia University, which provides detailed numbers. If you have not yet added I-Sim to your INFORMS membership, we strongly encourage you to do so and to participate in the upcoming election for two I-Sim council members. Information on I-Sim council member

candidates and ballots can be found at the end of this spring issue of I-Sim Newsletter.

I wish all of you a wonderful summer and look forward to seeing many of you at the upcoming I-Sim business meeting during this year's INFORMS Annual Meeting in Phoenix, AZ. □

Editor's Corner

Wei Xie

I would like to thank the I-Sim Officers and Committees for providing timely updates on the I-Sim business matters. Enjoy the newsletter! □

Treasurer's Report

Sara Shashaani

Beginning Balance (1/1/2022)	\$113,860.07	
Total Revenue	\$2,352.45	
• Dues		\$2,352.45
• Other		\$0
• Interest		\$0
• WSC Sponsorship, surplus		\$0
Total Expenses	\$(3,425.99)	
• Local meeting expense		\$(1,595)
• Membership Expense		\$(205.99)
• Award Expense		\$(1,125)
Net Gain / Loss	\$(1,073.54)	
Ending Balance* (09/30/2022)	\$112,786.53	

* The I-Sim account includes \$20,750 that belongs to the liability account shared by all four WSC sponsors (see Fall 2012 newsletter).

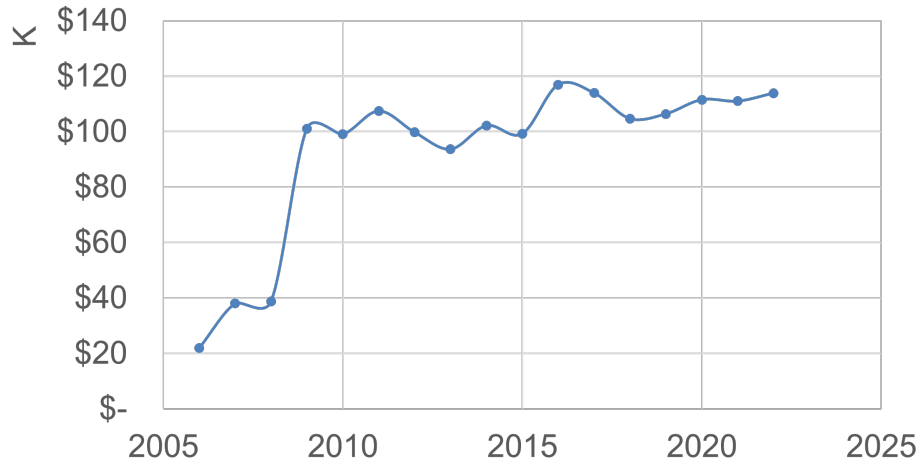


Figure 1. Actual Balance As of June 30 Each Year

□

Secretary's Corner

Henry Lam

As of October 9, 2022, I-SIM have 566 members, of whom around 220 are students. At least 139 members have addresses outside the United States. The following shows the comparisons of membership numbers with previous years:

- 2019 (end of year): 1102 (703 students)
- 2020 (November): 529 (195 students)
- 2021 (October): 422 (97 students)
- 2022 (October): 566 (~ 220 students)

From these data, we see that 2022 has more members than 2021 and 2020, but significantly less members than the pre-COVID time during 2019. It seems most of the downfall from 2019 is on student membership. It would be helpful to encourage students to sign up as ISIM members.

□

COMMITTEE REPORTS

Report on the Simulation Archive

Simulation Archive Advisory Committee: Russell Barton (chair, rbarton@psu.edu), Ernie Page (epage@mitre.org), Dennis Pegden (cdpegden@simio.com), Simon Taylor (simon.taylor@brunel.ac.uk)

The Computer Simulation Archive Advisory Committee (CSAAC) is an unusual but valuable instrument for acquiring materials and seeking financial support for the Computer Simulation Archive at the NC State University Libraries. It is an independent group, comprised of members of the simulation community. Current CSAAC members are affiliated with I-Sim and the ACM SIGSIM.

CSAAC and Archive Activities. Ernie Page was nominated and elected as chair of CSAAC and has agreed to serve in that role. Dr. Page has held many leadership roles at MITRE and is currently the SIMEX Program Manager. Ernie has served in a number of WSC roles, including 11 years on the Board of Directors and serving as Program Chair for the 2017 conference. He has held positions of Secretary/Treasurer, Vice-Chair and Chair of ACM SIGSIM and currently serves on the SIGSIM Advisory Board. He received the SIGSIM Distinguished Contributions Award in 2020 and the SIGSIM Service Award in 1997 and 2003. The CSAAC will be in good hands under his leadership. Additionally, Simon Taylor has agreed to serve a second four-year term. Russell Barton will rotate off CSAAC at the end of June after five years of service.

Dr. Gwynn Thayer is Associate Head and Chief Curator Special Collections Research Center at the NC State University Libraries. She leads the Archive's work in digitizing correspondence, lecture notes and other documents. The Archive will soon be receiving additional material thanks to the generosity of Tuncer Ören. Shelly Black of the NC State University Libraries is leading an initiative to preserve historical software and simulation model artifacts through emulation of obsolete computing systems. She has been able to get SLX and Proof Animation working in Windows 3.1 and Windows 95 emulators. If you have old software or important models under public license and want to see if they can run once again, please contact a CSAAC member.

The Oral History section of the Archive now shows the video interviews with Don Iglehart, Pierre L'Ecuyer and Ingolf Stähl, along with their biographies. To see these and other oral histories by our trailblazers, visit <https://d.lib.ncsu.edu/computer-simulation/>.

Plans for the Coming Year. We have two additional oral history interviews planned, one in the next few weeks, and several others are under discussion. We expect to have more news on these in the Fall I-Sim Newsletter. The Archive and CSAAC continue to seek early simulation leaders and important simulation artifacts. If you have suggestions for the Archive, you can relay them through a CSAAC member.

Another objective is to improve the visibility of the Archive, to increase Archive traffic: to the Website and to the physical materials. If you know of historical models and/or software, please contact a member of CSAAC.

Endowment. The Archive depends on funds from its endowment to cover operating expenses. Continuing donations to the Archive endowment indicate its importance to the simulation community. To find out more about donating - either materials or financial support, visit <https://d.lib.ncsu.edu/computer-simulation/giving/>.

□

EDITORS' REPORTS

Report on Operations Research

L. Jeff Hong, Operations Research Simulation Area Editor

Activity in the Simulation Area of Operations Research (September 27, 2022 to April 30, 2023)

For the period specified, there were 12 new submissions and 9 resubmissions. There were totally 22 editorial decisions made in the period, 12 rejections, 1 major revision, 4 minor revisions and 5 acceptances. Of the 22 editorial decisions, 7 were on time (less than 3 months from the date of submission), 12 were late (between 4 and 6 months) and 3 were very late (6 months or more). I would like to thank the Associate Editor team, Guzin Bayrakson, Bernd Heidergott, Jiaqiao Hu, Susan Hunter, Seong-Hee Kim, Henry Lam, Guangwu Liu, Ilya Ryzhov, and Enlu Zhou, for their wonderful service to the journal.

The editorial statement of the simulation area may be found at <https://pubsonline.informs.org/page/opre/editorial-statement/area-editors-statements#Simulation>. In addition to the traditional areas of simulation, we welcome contributions that develop the interface of simulation with other methodological areas (for example, large-scale computing, machine learning and data analytics) or application areas (such as healthcare, financial engineering, sharing economy, environment, and energy). In general, papers should be of interest to a broad O.R. audience, and not just to the simulation community, although we certainly welcome papers that represent major theoretical progress. Please submit papers electronically via the Manuscript Central O.R. Web site (<http://mc.manuscriptcentral.com/opre>).

□

Report on *INFORMS Journal on Computing*

Bruno Tuffin, Simulation Area Editor

The IJOC Simulation Area covers all computational aspects of stochastic simulation. We seek high-quality research on the computational aspects of simulation model building, simulation data structures, simulation modeling and experiment environments, stochastic input modeling, random-variate generation, output analysis, simulation-based optimization, variance-reduction methods for simulation experiments, and other aspects of simulation modeling, experimentation, and analysis.

Submissions to the Simulation Area should not merely use simulation as a tool for generating experiments to test another methodology (these manuscripts should instead be submitted to the IJOC area for which the methodology applies), nor should they only present experimental results from a simulation program. Rather, manuscripts submitted to the area must make a significant contribution to the field of stochastic simulation, as described in the previous paragraph. Complete instructions for preparing manuscripts are available at <http://joc.pubs.informs.org>. Submissions must be done electronically through Manuscript Central: <http://mc>.

manuscriptcentral.com/ijoc.

During 2022, the Simulation Area of the INFORMS Journal on Computing (IJOC) received 16 new submissions. During this period, 10 papers were accepted and 15 rejected. The average turnaround time for an original paper was 63.8 days, and 49.1 days for a revision.

I'd like to thank the associate editors (Seong-Hee Kim, Henry Lam, Ilya Ryzhov, Eunhye Song, Yongjia Song, Wei Xie) for their truly outstanding work, and for making my job much more manageable.

□

Report on the *Journal of Simulation*

Christine Currie, Charles Macal, Navonil Mustafee, and Claudia Szabo, Editors

We are delighted to announce the appointment of Charles Macal as the new Co-Editor in Chief. Charles applies computational modeling and simulation tools to complex systems to solve problems in a variety of fields, including healthcare, energy and national security. He is the chief scientist for the Decision & Infrastructure Sciences Division of Argonne National Laboratory, USA. He is a principal investigator for the development of the widely used Repast agent-based modeling toolkit. He has appointments in the University of Chicago Computation Institute and the Northwestern-Argonne Institute for Science and Engineering. He has been a visiting scholar at the University of Chicago, where he taught a course on Complex Adaptive Systems for Threat Management and Emergency Preparedness and a visiting scholar at the African Institute of Mathematical Sciences, where he taught a course on the mathematics of infectious diseases. We would also like to thank John Fowler for his outstanding service across the years as one of the Editors in Chief.

The Joint Editors are pleased to report that JOS has experienced a very good year in 2022. While the impact factor has yet to be released, the number of received papers has increased from 133 to 203 in 2022, with an average of 96 days from submission to first post-review decision. We would like to thank our team at Taylor and Francis for their incredible support!

It is important to highlight the scope of the journal. JOS publishes theoretical and methodological papers that span the breadth of the simulation process, including both modelling and analysis methodologies, as well as practical papers from a wide range of simulation applications. Application-focused papers tend to be original research on methodological and technological advances that represent significant progress toward the application of simulation modelling (often includes a case study). We also welcome literature reviews and topics that are not mainstream but are considered evocative to the simulation community.

JOS is supported by an international Editorial Board of Associate Editors. We are constantly looking for new AEs, especially in Agent-based Simulation, Simulation Methodology, System Dynamics and Hybrid M&S. The Editorial Board is very focused on the diversity of our AE pool and would particularly like to encourage women and First Nations people to apply to join the team. The Editors welcome informal queries on contributing to JOS as a reviewer and other roles.



Report on *Stochastic Systems*

Shane G. Henderson, former Editor-in-Chief

Stochastic Systems is the flagship journal of the INFORMS Applied Probability Society. This **open access** journal seeks to publish high-quality papers that substantively contribute to the modeling, analysis, and control of stochastic systems. There are no submission fees or page charges. A paper's contribution may lie in the formulation of new mathematical models, in the development of new mathematical or computational methods, in the innovative application of existing methods, or in the opening of new application domains. The journal homepage is <http://pubsonline.informs.org/journal/stsy>.

We aim to return reports to authors within 3 months of submission. The average time from submission to decision is 82 days, and 90% of papers have decisions within 159 days of submission. (We are grateful for your help in keeping the tails of review times short!) Please submit papers at <http://mc.manuscriptcentral.com/ssy/>.

I have stepped down as of April 10. I view my primary accomplishments as placing the journal on a solid footing with reasonable review times, and integrating the journal into the INFORMS family of journals. The new Editor-in-Chief is Devavrat Shah, MIT.



Report on *ACM TOMACS*

Francesco Quaglia, ACM TOMACS Editor

The ACM Transactions on Modeling and Computer Simulation journal (TOMACS) is a reference in the area of methods and techniques for modeling and simulation. The articles published last year have an ample coverage of topics spanning from theory to applications. The volume of submissions is large, this is an indication of the clear interest of authors in the topics covered by the journal. A big thank goes to the Associate Editors for their work and timeliness in the management of submissions. A special thank goes to the production staff for the big work they carry out and for the punctuality of all their activities.

During the last year (since December 1 2021) TOMACS had 93 new submissions, 20 of which targeting the ISIM 2021, PADS 2021 and QEST 2021 special issues. It also had 32 submissions of revised articles, and 11 acceptances. The four volumes published in 2022 (the latest one being still in progress) provide to the readers a total of 24 articles.

ACM TOMACS attracts authors who target the reproducibility of their artifacts, which helps positioning TOMACS articles in the role of solid references for the community. TOMACS has stable values of bibliometric indexes that are used to assess the quality level. In my view this is a strength, in particular considering the focus of TOMACS on core methods/algorithms for the modeling and simulation area.

You can check for detailed information on ACM TOMACS at <https://dl.acm.org/>

journal/tomacs. The link for submitting an article is <https://mc.manuscriptcentral.com/tomacs>. □

Report on *IISE Transactions*

Jiaqiao Hu, Stochastic Models and Simulation Department Co-Editor

From August 1st 2021 to November 1st 2022, the simulation area of the Stochastic Models and Simulation Department received 10 papers, including 9 new submissions and 1 resubmission. During this period, 2 papers were accepted, 6 papers were rejected, and 2 are currently awaiting the first round of editorial feedback. The turnaround time averaged over the papers with decisions were 57 days. The Associate Editors in the Simulation Department are Guzin Bayraksan, Ilya Ryzhov, and Jie Xu. I would like to sincerely thank all of them for their time and effort spent in serving the journal.

The departments of Stochastic Modeling and Simulation seeks to publish high-quality research papers that advance the theory and practice in the modeling, analysis, control, and optimization of stochastic systems. The simulation area of the department is interested in research contributions pertaining to all aspects of stochastic simulation. We welcome papers with strong methodological elements, e.g., developing new simulation methods and tools for general problem classes that have applications in many areas. We also welcome well-executed papers that study important applications arising in, for example, engineering design, manufacturing, communications, and finance, where new or existing simulation techniques are developed or creatively applied. In addition to the conventional topics in stochastic simulation, of particular interest are contributions that address the integration of simulation techniques with other emerging technologies and applications such as high-performance computing, data analytics, artificial intelligence, healthcare, and energy systems.

Please submit your research work via IISE Transactions' manuscript central: <https://mc.manuscriptcentral.com/iietransactions>

□

CONFERENCE ANNOUNCEMENTS

IISE Annual Conference & Expo 2023

May 20–23, 2023, New Orleans, Louisiana, USA

Enlu Zhou (source: <https://www.iise.org/Annual/details.aspx?id=40887>)



The Institute of Industrial and Systems Engineers (IISE) is excited to invite you to join an educational

feast fit for the profession's finest. At the IISE Annual Conference & Expo, you're joining leaders in the field, up-and-comers and students to network, gather new ideas and learn about innovative tools and techniques. Prepare to make connections that will aid your career and build friendships that last a lifetime. □

2023 SIAM Conference on Optimization

May 31–June 3, 2023, Seattle, Washington, USA

Enlu Zhou (source: <https://www.siam.org/conferences/cm/conference/op23>)

This is the conference of the [SIAM Activity Group on Optimization](#). This conference is co-located with [SIAM Conference on Applied and Computational Discrete Algorithms \(ACDA23\)](#).

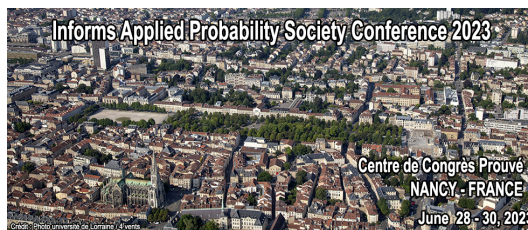


The SIAM Conference on Optimization will feature the latest research in theory, algorithms, software and applications for optimization problems. The conference brings together mathematicians, operations researchers, computer scientists, engineers, software developers and practitioners, thus providing an ideal environment to share new ideas and important problems among specialists and users of optimization in academia, government, and industry. □

The 21st INFORMS Applied Probability Conference (INFORMS-APS)

June 28–30, 2023, Nancy, France (originally scheduled on July 7–9, 2021 and postponed due to COVID-19 pandemic)

Enlu Zhou (source: <https://informs-aps2023.event.univ-lorraine.fr/>)



INFORMS Applied Probability Society Conference will feature research interest in random matrices, random graphs, stochastic networks, combinatorial optimization and stochastic geometry, design and performance of service systems, and the design and analysis of algorithms, and study of large networks such as online social networks and the World

Wide Web, randomized algorithms, and random graphs. □

The 40th International Conference on Machine Learning (ICML)

July 23–29, 2023, Hawaii, USA

Enlu Zhou (source: <https://icml.cc>)

The International Conference on Machine Learning (ICML) is the premier gathering of professionals dedicated to the advancement of the branch of artificial intelligence known as machine learning.

ICML is globally renowned for presenting and publishing cutting-edge research on all aspects of machine learning used in closely related areas like artificial intelligence, statistics, and data science, as well as important application areas such as machine vision, computational biology, speech recognition, and robotics.

ICML is one of the fastest growing artificial intelligence conferences in the world. Participants at ICML span a wide range of backgrounds, from academic and industrial researchers, to entrepreneurs and engineers, to graduate students and postdocs. □



2023 INFORMS Annual Meeting

October 15–18, 2023, Phoenix, Arizona, USA

Enlu Zhou (source: <https://meetings.informs.org/wordpress/phoenix2023/>)



On October 15–18, 2023, we invite you to join us at the Phoenix Convention Center in downtown Phoenix for the one of a kind opportunity to connect with the INFORMS community, including more

than 5,500 members, students, academic and industry experts, as well as network with prospective employers and employees. We look forward to seeing you in 2023!

□

2023 Winter Simulation Conference

December 10–13, 2023, San Antonio, Texas, USA

Bahar Biller (Publicity Committee, source: <http://www.wintersim.org>)

Please join us in San Antonio, Texas for the leading conference in the field of simulation! The Winter Simulation Conference (WSC) 2023 will be held December 10 – 13 at the San Antonio Marriott Rivercenter, a beautiful waterfront location within walking distance of historical sites.

The theme of the WSC 2023 is **Simulation for Resilient Systems**. The WSC 2023 highlights the vital role that simulation plays in designing, planning, and operating resilient systems under



uncertainty. In an increasingly interconnected world, it is more critical than ever to ensure that systems quickly recover from and adapt to major disruptions. With its uncertainty modeling and explainable analytics capabilities, simulation is one of the key technologies that lie at the heart of building resilient systems.

We invite papers, commercial case studies, and posters that emphasize the latest advances in simulation theory and the applications showcasing the integrated use of simulation with technologies ranging from the Internet of Things and statistics to AI/ML and optimization. We particularly encourage applications of simulation to improve resiliency in a wide range of domains, including but not limited to aviation, disaster response, education, energy, finance, healthcare, infrastructure, manufacturing, national security, space systems, and supply chains.



The WSC 2023 will continue the tradition of including pre-conference workshops, introductory and advanced tutorials, commercial case studies, poster sessions, and Ph.D. Colloquium. It will also host the 19th International Conference on Modeling & Analysis of Semiconductor Manufacturing (MASM). WSC 2023 will further showcase professional development opportunities and a Simulation Challenge for teams to compete on an industrial case study.

We are looking forward to seeing you in San Antonio!

□

2022 AWARD RECIPIENTS

Barry L. Nelson Receives the 2022 Lifetime Professional Achievement Award

Pierre L'Ecuyer (chair), James R. Wilson, and Peter W. Glynn



Barry L. Nelson

Barry L. Nelson, the Walter P. Murphy Professor in the Department of Industrial Engineering and Management Sciences at Northwestern University, received the 2022 Lifetime Professional Achievement Award (LPAA) from the INFORMS Simulation Society (ISIM). The award was presented both online and in person on December 11, 2022, at the opening session of the 2022 Winter Simulation Conference (WSC), which was held physically in Singapore. The award selection committee for 2022 was chaired by Pierre L'Ecuyer (Université de Montréal), with members

Peter W. Glynn (Stanford University) and James R. Wilson (North Carolina State University).

The highest honor of the INFORMS Simulation Society, the Lifetime Professional Achievement Award is given at most annually to recognize an individual for major contributions to the field of computer simulation that are sustained over most of a professional career, with the critical consideration being the total impact of those contributions on the field. An individual's achievements may fall in one or more of the following categories:

1. contributions to research,
2. contributions to practice,
3. dissemination of knowledge,
4. development of software or hardware,
5. service to the profession, and
6. advancement of the status or visibility of the field.

Barry Nelson's extraordinary contributions to the field of computer simulation over the past four decades were forcefully and concisely summarized by Shane Henderson (Cornell University):

In high-impact research, in translation of research to practice, in framing key research questions and future research directions, in training the next generation of simulation researchers, in education both in the university classroom and beyond, in professional service roles and every other dimension I can think of he is a leader and role model.

Barry has made seminal research contributions to many areas of computer simulation, including design and analysis of simulation experiments on models of stochastic systems; statistical ranking, selection, screening, and multiple comparisons; simulation optimization; simulation metamodeling; simulation input modeling, especially for multivariate and nonstationary input processes; uncertainty quantification; variance reduction (efficiency improvement) techniques; and sequential analysis. Beyond the field of computer simulation, Barry has had a significant impact on the larger disciplines of industrial and systems engineering (ISE), operations research and the management sciences (ORMS), applied statistics, and applied probability. Barry has followed up his numerous theoretical and methodological contributions with major contributions to practice in a broad diversity of application domains, including computer performance evaluation, production and procurement planning for manufacturing of personal computers, wind and solar power simulation, election poll staffing, supply chain modeling, design of an automated material handling system for the Port Authority of Singapore, and financial engineering models of crop insurance risk.

Barry's contributions to the dissemination of knowledge include his published work, his distinguished lectures, his research awards, his teaching awards, and his greatest contribution of all—his teaching and advising of students. To provide more perspective on the full significance of Barry's publications over the past 40 years, we note that as of May 10, 2023, Barry had accumulated 12,944 citations in Google Scholar with an h-index of 61. Altogether he has published 105 archival journal articles, 13 book chapters, 3 books, and 117 refereed proceedings papers. The following publications warrant special mention. Barry and his students or collaborators received ISIM's Outstanding Simulation Publication Award three times (in 2006, 2013, and 2015) for the following articles:

- Boesel, J., B. L. Nelson, and S. Kim, "Using Ranking and Selection to 'Clean Up' after Simulation Optimization," *Operations Research* 51 (2003), 814–825.
- Ankenman, B. E., B. L. Nelson, and J. Staum, "Stochastic Kriging for Simulation Metamodeling," *Operations Research* 58 (2010), 371–382.
- W. Xie, B. L. Nelson, and R. R. Barton, "A Bayesian Framework for Quantifying Uncertainty in Stochastic Simulation," *Operations Research* 62 (2014), 1439–1452.

Barry has been extraordinarily effective in disseminating knowledge about simulation and in advancing the status and visibility of the field through his keynote addresses and distinguished lectures delivered at universities, conferences of professional societies, research organizations, governmental organizations, and commercial enterprises worldwide. The following lectures deserve special mention:

- Keynote Address, International Workshop on Mathematical Methods and Tools in Computer Simulation, St. Petersburg, Russia, May 1994.
- Plenary Lecture, 2007 INFORMS Simulation Society Workshop, Fontainebleau, France, July 2007.
- Keynote Address, IIE Annual Conference and Expo, Vancouver, Canada, May 2008.
- Keynote Address, Asian Simulation and Modeling Conference, Bangkok, Thailand, January 2009.

- Omega Rho Distinguished Lecture, INFORMS Annual Meeting, November 2011.
- Titans of Simulation Lecture, Winter Simulation Conference, December 2013.
- Keynote Address, Operational Research Society 7th Simulation Workshop, Worcestershire, England, April 2014.
- Keynote Address, Winter Simulation Conference, December 2017.
- Alan B. Pritsker Scholars Distinguished Lecture, Purdue University, April 2018.
- Plenary Lecture, 13th International Conference in Monte Carlo & Quasi-Monte Carlo Methods in Scientific Computing, Rennes, France, July 2018.
- Keynote Address, INFORMS Annual Meeting, November 2020.

Barry has also delivered invited lectures at 47 universities throughout the world. Moreover, he has made numerous presentations at such nonacademic organizations as General Motors Research and Development, the MITRE Corporation, the Norwegian Defense Establishment, SAS Institute, and Simio LLC.

By Barry's teaching and advising of undergraduate and graduate students, he and his former students have made an unsurpassed contribution to the worldwide dissemination of knowledge about simulation. As of May 2023, Barry had completed the supervision of 5 senior honors thesis students, 5 master's thesis students, 31 Ph.D. students, and 2 postdoctoral researchers. Among Barry's former graduate students, 12 hold senior positions in commercial and research organizations. Moreover, 23 of Barry's former students are faculty members at leading universities in China, Hong Kong, South Korea, Taiwan, Thailand, Turkey, the United Kingdom, and the United States. The impact on the simulation field made by Barry and all his former students will almost surely persist for a long time.

Barry has also received the following research awards beyond ISIM's Outstanding Simulation Publication Awards that he received in 2006, 2013, and 2015:

- David F. Baker Distinguished Research Award from the Institute of Industrial and Systems Engineers (IISE) in 2019.
- Best Paper Award from IIE Transactions (now IISE Transactions) in 2006, 2009, and 2013:
 - Hong, L. J., and B. L. Nelson, "Selecting the Best System when Systems are Revealed Sequentially," IIE Transactions 39 (2007), 723–734.
 - Tsai, S. C., and B. L. Nelson, "Fully Sequential Selection Procedures with Control Variates," IIE Transactions 42 (2009), 71–82.
 - Xu, W. L., and B. L. Nelson, "Empirical Stochastic Branch-and-Bound for Optimization via Simulation," IIE Transactions 45 (2013), 685–698.

Barry has received numerous teaching awards from Northwestern University, The Ohio State University, the IISE Operations Research Division, and the IISE Modeling and Simulation Division. The following partial list exemplifies the significance of all the teaching awards that Barry has received:

- Alpha Pi Mu Outstanding Faculty Award, voted by the Department of Industrial and Systems Engineering seniors, The Ohio State University (1989, 1995).
- Charles E. MacQuigg Award for Outstanding Teaching, a college-wide award from the College of Engineering, The Ohio State University (1992).
- Alumni Award for Distinguished Teaching, a university-wide award from The Ohio State University (1994). This is the highest award for teaching given by

the university, and it includes induction into the OSU Academy of Teaching.

- Graduate Teaching Award, Student INFORMS Chapter, Department of Industrial Engineering and Management Sciences (IEMS), Northwestern University (1995–1996, 1996–1997, 1997–1998, 1999–2000, 2000–2001, 2002–2003, 2005–2006, 2006–2007, 2012–2013).
- Northwestern Alumni Association Excellence in Teaching Award (2003).
- McCormick School of Engineering and Applied Science Teacher of the Year Award, Northwestern University (1997–1998, 2006–2007).
- Cole-Higgins Award for Teaching Excellence, McCormick School of Engineering and Applied Science, Northwestern University (2021–2022).

Barry’s groundbreaking contributions to the development of software include the following:

- Ranking-and-selection algorithms implemented in Arena, OptQuest, and Simio.
- Input-uncertainty algorithms implemented in Simio.
- MORE plot implemented in Simio and Simul8.
- Shapley-effects algorithms implemented in a CRAN R package.
- Input-model averaging algorithm implemented in a CRAN R package.

Barry’s contributions in service to the international simulation community are extraordinary for their wide scope and the length of time over which those contributions have been sustained:

- Each WSC position from Session Chair to Board Chair (1983–present).
- Trustee of the WSC Foundation (2008–2012).
- Each ISIM position from Newsletter Editor to President (1986–1994).
- Each ISIM committee and many high-level INFORMS committees (1983–present).
- Editor-in-Chief of Naval Research Logistics (2006–2008).
- Area Editor of Operations Research and Surveys in Operations Research and Management Science (2009–2011).
- Area Editor of Operations Research (1998–2000).
- Member of National Science Foundation (NSF) review panel (1990, 1992, 2000, 2001, 2003, 2004, 2009, 2010, 2012); reviewer of NSF proposals (1987, 1989, 1990, 1991, 1996).
- External reviewer of many academic departments of ISE and ORMS (2008–2017).

In recognition of Barry’s yeoman service to the simulation profession, he received the ISIM Distinguished Service Award (2003).

We in the international simulation community are the beneficiaries of Barry Nelson’s remarkable contributions over the past 40 years to the field of computer simulation as well as the allied disciplines of ISE, MSOR, applied statistics, and applied probability. His career epitomizes the highest ideals of the Lifetime Professional Achievement Award of the INFORMS Simulation Society.

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Loo Hay Lee Receives the 2022 Distinguished Service Award

Christos Alexopoulos (Chair), Susan Sanchez, and Theresa Roeder

The 2022 Distinguished Service Award Committee (Christos Alexopoulos, Theresa Roeder, Susan Sanchez) is happy to present the 2022 award to Loo Hay Lee, Professor in the Department of Industrial Systems Engineering & Management at the National University of Singapore (NUS). Loo Hay Lee is truly deserving of the I-SIM Distinguished Service Award. Loo Hay's level of service was outstanding (actually, way, way beyond the call of duty) – for NUS and for many international professional organizations. He devoted himself to almost anything related to simulation. Sadly, Loo Hay passed away on March 17, 2022.

Loo Hay's service to WSC has been truly exceptional. To quote from the nomination letter, "Loo Hay was certainly one of the "go to" guys at the annual WSC – we could always count on him to be a track coordinator, session organizer, referee, or anything that was needed to make the conference successful. In particular, he was a Track Coordinator in 2008, 2009, 2011, 2013, 2015, 2016, 2019, and 2020; Publicity Chair in 2011 and 2013; and, of course, Program Chair in 2022. In fact, Loo Hay almost single-handedly brought the WSC to Singapore – the first time that WSC visited Asia... We will finally add that Loo Hay was a super guy – boundlessly enthusiastic, incredibly friendly, amazingly helpful to others, and just a fantastic person to be around."

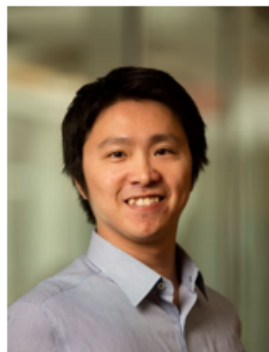


Loo Hay Lee

□

Soumyadip Ghosh and Henry Lam win the 2022 Outstanding Simulation Publication Award

Enlu Zhou (Chair), Jian-Qiang Hu, and Jose Blanchet



Soumyadip Ghosh (left) and Henry Lam (right)

The INFORMS Simulation Society's Outstanding Publication Award recognizes exceptional contributions to the simulation literature in the form of articles, books, book chapters and monographs, copyrighted between 2019 and 2021. The award committee, consisting of Jose Blanchet, Jian-Qiang Hu, and Enlu Zhou, are pleased to present the 2022 Award to Soumyadip

Ghosh and Henry Lam for their paper:

“Robust Analysis in Stochastic Simulation: Computation and Performance Guarantees”, which appeared in *Operations Research*, 67(1), 2019, 232–249.

This paper investigates a distributionally robust optimization framework to quantify input uncertainty, which refers to the errors in calibrating input models that propagate to impact the outputs in simulation analysis. While conventional approaches for input uncertainty place basic statistical assumptions on the calibration process and suggest established techniques such as the bootstrap, in practice the uncertainty in the input models could go beyond such assumptions and tie to hidden dependence, expert knowledge or non-stationarity of data. This approach aims to compute worst-case bounds under constraints designed to flexibly represent partial knowledge of the input models beyond conventional statistical errors. This paper also studies guarantees on these bounds and designs numerical schemes for computation. The contribution made by this paper is important for simulation analysis and design.

Congratulations to the authors for a solid and remarkable piece of work!

□

Yuanlu Bai Receives the 2022 WSC Ph.D. Colloquium I-Sim Best MS/OR-Focused Student Paper Award

Siyang Gao

The I-Sim best MS/OR-focused student paper is:

“Rare-event Simulation without Variance Reduction: An Extreme Value Theory Approach” by Yuanlu Bai (Columbia University), Henry Lam (Columbia University) and Sebastian Engelke (University of Geneva).

The winner is awarded \$200 sponsored by I-Sim and ACM SIGSIM.

□

Maria Hajłasz, Ignacio Erazo, and Yutong Zhang Receive the 2022 CUMW WSC Diversity Awards

2022 WSC Diversity Committee (Chang-Han Rhee (chair), Lucy Morgan, Zeyu Zheng)

To improve outreach and diversity among young researchers in the field of simulation, the INFORMS Simulation Society is proud to award sponsorship each year to



Yutong Zhang, Ignacio Erazo, and Maria Hajłasz

assist graduate students to attend the Winter Simulation Conference (WSC). In 2022, among a strong pool of applicants, Maria Hajłasz (Wrocław University of Science and Technology), Ignacio Erazo (Georgia Institute of Technology), and Yutong Zhang (Virginia Tech) were selected to be the award recipients.

2023 CALLS FOR PROPOSALS AND NOMINATIONS

2023 Lifetime Professional Achievement Award

Peter W. Glynn

To recognize major contributions to the field of simulation that are sustained over most of a professional career, with the critical consideration being the total impact of those contributions on computer simulation, the INFORMS Simulation Society (I-Sim, <http://connect.informs.org/simulation/home>) has established the Lifetime Professional Achievement Award (LPAA). This award can be given at most once annually. An individual's contributions may fall in one or more of the following areas:

- contributions to research,
- contributions to practice,
- dissemination of knowledge,
- development of software or hardware,
- service to the profession, and
- advancement of the status or visibility of the field.

Anyone except current Award Committee members is eligible to win the award, although individuals selected for this award should normally be in or near their retirement. Persons cannot be nominated posthumously. A nomination will be fully considered in the year it was received. If unsuccessful the nominee will be reconsidered for up to two further years if not deceased. Once under consideration in a given year and if successful the award may be received posthumously. Nominations may be submitted by anyone (including self-nominations), but they may not be made anonymously. The burden of offering evidence of merit falls on the nominator. Each nomination should include:

- the nominee's complete resumé;
- a clear-cut, comprehensive description of the nominee's major contributions to the profession, with complete supporting documentation; and
- at least three, but no more than six, letters of endorsement providing evidence of the significance and magnitude of the nominee's professional achievements. (Each endorsement letter must come from a single person.)

The committee may at its discretion widen those under consideration for the award to include other eligible persons who were not nominated under the nomination call process.

The deadline for nominations is September 1, 2023. Nominators should alert the committee chair (Peter Glynn, glynn@stanford.edu) of their forthcoming nomination at least one month prior to the deadline. The nomination should be submitted as a PDF file attachment to an email to the committee chair. Any questions should be directed to the committee chair.

A list of previous award recipients, and more details about the award process, can be found at past awardees.

This year's LPAA Award Committee consists of Peter Glynn (chair, Stanford University), Pierre L'Ecuyer (Universite de Montreal), and Barry Nelson (Northwestern University).

□

2023 Distinguished Service Award

Theresa Roeder

To recognize individuals who have provided long-standing, exceptional service to the simulation community, the INFORMS Simulation Society annually sponsors a Distinguished Service Award, given to at most one person each year. This award is for sustained service to the simulation community over at least fifteen to twenty years or longer, and acquitted with distinction. The concept of service for this award does not include teaching or research contributions. Areas of volunteer service include, for example: (i) elected offices in simulation societies; (ii) editorial responsibilities such as area editor or editor-in-chief, for simulation; (iii) responsibilities such as program chair, proceedings editor, general chair, or member of the program or organizing committee, for conferences involving simulation; (iv) appointed positions for simulation-related activities, such as newsletter editor or serving on committees; and (v) undertakings and actions that promote simulation.

Nominations for the award to be given in 2023 can be made by anyone and should be sent by October 15th, 2023, to the Distinguished Service Award Committee Chair:

Theresa Roeder
 San Francisco State University
tmroeder@sfsu.edu

The other committee members are Susan Sanchez (Naval Postgraduate School) and Christos Alexopoulos (Georgia Institute of Technology).

Letters of nomination should identify the nominee's areas of exceptional service, detailing the activities for which the nominee is believed to deserve this award. The nominator has the responsibility for justifying why the nominee should receive this award. If given, the award will be presented at the Winter Simulation Conference, December 10–13, 2023: <http://www.wintersim.org>.

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2023 CUMW WSC Diversity Award

Zeyu Zheng

To improve outreach and diversity among young researchers in the field of simulation, the INFORMS Simulation Society is proud to award sponsorship each year to assist graduate students or postdocs to attend the Winter Simulation Conference (WSC).

We especially encourage applications from women, underrepresented minorities, or students who may add to the diversity of the community in other ways; however

this award is not limited to specific genders or ethnicity groups. The WSC Diversity Committee is looking forward to receiving applications for the 2023 WSC Diversity Award.

For a complete application, three items are required. 1. The applicant fills in this online application form (<https://forms.gle/qybU7LjuQis3CK1AA>). 2. A letter of intent written by the applicant shall be sent to the committee chair. 3. A letter of recommendation written by the applicant's advisor shall be sent to the committee chair. The application due date is September 30, 2023. More information: In the letters of intent, the applicants shall explain their background and why they would like to join the WSC community through participation at the WSC conference. The letter of recommendation should highlight the applicant's potential contribution to the field of simulation, and explain how the applicant and their efforts will contribute to the diversity of the simulation community.

Zeyu Zheng, University of California Berkeley
Chair of the 2023 WSC Diversity Committee
zyzheng@berkeley.edu

□

2023 Winter Simulation Conference I-Sim Ph.D. Colloquium Best Student Paper Award

Siyang Gao

INFORMS-Sim co-sponsors the Winter Simulation Conference (WSC) Ph.D. Colloquium. Ph.D. students within two years of their graduation will be given an opportunity to showcase their work during a short presentation session in the Colloquium (apart from the regular tracks). INFORMS-Sim will award a Best Ph.D. Student Paper among those students making a presentation at both the Ph.D. Colloquium and the conference.

To be considered for this award, the students should:

- Have a full paper submitted to a regular track (a contributed paper, not an invited paper) and accepted;
- Submit a 2-page extended abstract of the full paper to the Ph.D. Colloquium;
- Make a presentation in the Ph.D. Colloquium.

In other words, the students should participate the Ph.D. Colloquium with Option 3 as shown in <https://meetings.informs.org/wordpress/wsc2022/phd-colloquium/>. In addition, the students should include their contributed paper ID when completing the Ph.D. Colloquium submission. An email should also be sent to the chair of the Ph.D. Colloquium Committee that includes the contributed paper ID and indicates intent to participate in the Best Paper competition.

To be eligible for participating the Ph.D. Colloquium:

- The Ph.D. student should be within two years of graduation;
- The Ph.D. student should be the main author of the submission;
- The Ph.D. student will attend 2023 WSC and participate in the Ph.D. Colloquium.

Students are only allowed to participate in a WSC Ph.D. Colloquium one time.

For WSC2023, the Ph.D. Colloquium Committee consists of Siyang Gao (chair, siyang-gao@cityu.edu.hk), Anatoli Djanatliev, Cristina Ruiz Martin, and Eunhye Song.

□

I-SIM BUSINESS MEETING MINUTES

INFORMS Simulation Society Business Meeting: 2022 Winter Simulation Conference, Singapore, December 13, 2022

Henry Lam

At 6:09 PM Singapore time, Jie Xu, President of I-SIM, convened the meeting, introduced the agenda and reminded the attendees on meeting sign-in.

At 6:10, Jie congratulated Enver Yucesan for being elected as an INFORMS Fellow.

At 6:11, Simon Taylor paid tribute to Ray Paul who passed away earlier 2022. Simon presented Ray's career, his many contributions, and his stature as a leading academic.

At 6:18, Jie reminded that the I-SIM Discussion Board is the primary venue for disseminating information from the society, and encouraged everyone to spread the words.

At 6:21, Jie presented the status on the call of proposals for the next I-SIM Workshop. He recalled that the last I-SIM Workshop, which was originally supposed to be held in 2019, was postponed twice to 2020 and then 2021, and nonetheless was a success. The tradition was to hold this workshop every two years, so ideally the next one would be in Summer 2023. However, so far no proposals had been received, and thus the I-SIM officer board provided options for 2023 and 2024, considering the time to find resources and logistics so that 2024 was more realistic. Jie asked anyone interested to email him, with indications on the format (in-person or hybrid), theme and high-level program structure, venue, local administrative support and financial support, and COVID contingency plan. The deadline was 12/31/2022 and proposals would be reviewed on a rolling basis.

At 6:24, Jie asked for approval of meeting minutes by detailing the online link to access the minutes. The last minute was approved.

At 6:25, Jie introduced all the council and committee members and thanked them for their contributions.

At 6:27, Sara Shashaani, I-SIM Treasurer, gave a summary of the financial report. In particular, the balance at the end of July 2022 was \$112,865.07 with a small net loss compared to the start of the year. More information could be found in the 2022 I-SIM Fall Newsletter.

At 6:28, Jie announced some upcoming conferences, including INFORMS Business Analytics Conference on April 16-18, 2023 in Aurora, Colorado, IISE Annual Conference on May 20-23, 2023 in New Orleans, Louisiana, UK Simulation Workshop on March 27-29 in National Oceanographic Centre, Southampton, INFORMS Applied Probability Society Conference on June 28-30, 2023 in Nancy, France, and INFORMS Annual Meeting on October 15-18, 2023 in Phoenix, Arizona.

At 6:30, Simon Taylor gave updates on the Computer Simulation Archive. While there were some delays caused by COVID, accomplishments of '21-'22 included the collection of remaining Jim Henriksen materials by Dick Nance and Emie Page, and

new oral histories with Don Iglehart (thanks to Peter Glynn), Pierre L'Ecuyer, and Ingolf Stahl.

At 6:35, Claudia Szabo reported on Journal of Simulation.

At 6:37, Bruno Tuffin reported on the Simulation Area in INFORMS Journal on Computing. In particular, Bruno saw a decline in the submission number during the COVID period. Also, Chang-Han Rhee stepped down as an Associate Editor and Bruno thanked him for his service.

At 6:38, Jiaqiao Hu reported on the Stochastic Models and Simulation Department of IISE Transactions.

At 6:39, Jeff Hong reported on the Simulation area of Operations Research. In particular, he noted that in 2021 there were more submissions, perhaps because people worked more during COVID, and 2022 saw a decline. Also, acceptance rate in the recent cycle was higher compared to previous years. Finally, Russell Barton stepped down as an Associate Editor last year, but still handled six resubmissions since he stepped down and Jeff thanked him for his service.

At 6:42, Jeff, as an Associate Editor, reported on the Stochastic Models and Simulation department in Management Science. He noted the scarcity of simulation papers in this venue. David Simchi-Levi, the Editor-in-Chief of Management Science, felt that simulation was important and at that time Steve Chick was the only Associate Editor in simulation in that department. David then talked to Barry Nelson and Jeff was added as an Associate Editor. Jeff advocated that our simulation community should “reclaim our land” and think of Management Science as an outlet.

At 6:44, Francesco Quaglia reported on ACM TOMACS.

At 6:47, Shane Henderson reported on Stochastic Systems. In addition to review time reports, he mentioned a couple of survey papers on the way. Shane was set to step down as the Editor-in-Chief at the beginning of 2023.

At 6:48, Jie asked for any new business. Shane thanked Theresa for making the conference a great success.

At 6:50, Jie started announcing I-SIM awards.

At 6:50, Chang-Han presented WSC Diversity Award. Among the 22 applications, the committee selected Yutong Zhang (Virginia Tech), Ignacio Erazo (Gatech) and Maria Hajlasz (Wroclaw U. of Science and Tech) to receive the awards.

At 6:51, Jie presented the Outstanding Simulation Publication Award on behalf of Enlu Zhou. The award went to Soumyadip Ghosh and Henry Lam. The committee consisted of Jose Blanchet, Jianqiang Hu and Enlu Zhou (Chair).

At 6:55, Christos Alexopoulos presented the I-SIM Distinguished Service Award to Loo Hay Lee who passed away earlier 2022. Among the many contributions of Loo Hay, he was the Program Chair of WSC 2022 and almost single-handedly brought the WSC to Singapore, the first time that WSC visited Asia. The committee consisted of Christos Alexopoulos (Chair), Theresa Roeder and Susan Sanchez.

At 7:00, Pierre L'Ecuyer presented the Lifetime Professional Achievement Award. The award went to Barry Nelson. Pierre described the many contributions of Barry. In particular, while the award recognized contributions from one or more of six criterion

areas, Barry contributed significantly to all of them. Pierre also quoted citations from Shane Henderson and Dave Goldsman on Barry's significant contributions, and recalled that Barry had won the Outstanding Simulation Publication Award three times, and already won the I-SIM Distinguished Service Award many years back in 2003. The committee consisted of Pierre L'Ecuyer (Chair), James Wilson and Peter Glynn.

At 7:08, Barry gave the award speech, presenting his career and recalling the interactions with his many colleagues and students.

At 7:22, Jie adjourned the meeting.

Attendees: To deter email harvesting, @ has been replaced with <of>.

In-person participants:

Jeff Hong, hong_liu<of>fudan.edu.cn
David Eckman, eckman<of>tamu.edu
Barry Nelson, nelsonb<of>northwestern.edu
Eunhye Song, eunhye.song<of>isye.gatech.edu
Russell Cheng, cheng<of>btinternet.com
Ng Szu Hui, isensh<of>nus.edu.sg
Susan Sanchez, ssanchez<of>nps.edu
Maria Hajlasz, maria.hajlasz<of>pwr.edu.pl
Simon Taylor, simon.taylor<of>brunel.ac.uk
Kim van den Houten, k.c.vandenhouten<of>tudelft.nl
Michael Fu, mfu<of>umd.edu
Chang-Han Rhee, chang-han.rhee<of>northwestern.edu
Enver Yucesan, enver.yucesan<of>insead.edu
Shane Henderson, sgh9<of>cornell.edu
John Shortle, jshortle<of>gmu.edu
Felisa Vazquez-Abad, felisav<of>hunter.cuny.edu
Bruno Tuffin, bruno.tuffin<of>inria.fr
Igvauo Erazo, iiev3<of>gatech.edu
Chuljin Park, parkcj<of>hanyang.ac.kr
Jeff Smith, jsmith<of>auburn.edu
Jeff Joines, jeffjoines<of>ncsu.edu
Michael Kuhl, mekeie<of>rit.edu
Young-Jun Son, yjson<of>purdue.edu
Theresa Roeder, tmroeder<of>sfsu.edu
Christos Alexopoulos, christos<of>gatech.edu
Sanjay Jain, jain<of>gmu.edu
Sara Shashaani, sshasha2<of>ncsu.edu

Online participants:

Susan Hunter, Purdue, susanhunter<of>purdue.edu
Henry Lam, Columbia, khl2114<of>columbia.edu
Russell Barton, Penn State, rbarton<of>psu.edu
Joao Dantas, Institute for Advanced Studies, dantasjpad<of>fab.mil.br
Bozena Mielczarek, Wroclaw University of Science and Technology, bozena.mielczarek<of>pwr.edu.pl

Yutong Zhang, Virginia Tech, yutong<of>vt.edu



I-SIM BALLOTS

I-Sim Elections Ballot

Jeff Hong, Past President

I-Sim is holding an election for two Council Members.

Council members serve two-year terms starting July 1, 2023. There are four council members in total, serving on a rotating basis (two elected each year). Based on the I-Sim Bylaws, at least one of the elected members of this year shall be from outside the United States.

To vote in the election for I-Sim Council Members, return the ballot below by e-mail to:

Henry Lam (Columbia University)

I-Sim Secretary

E-Mail: henry.lam@columbia.edu

The deadline to submit a ballot is **June 20, 2023**. Please include the words “I-Sim Ballot” in the subject line.

The nominations committee is chaired by Jeff Hong.

The candidates are presented in alphabetical order.

COUNCIL (vote for up to two, please include at least one from outside the U.S.)

_____ Andrea Matta (outside the U.S.)

_____ Szu Hui Ng (outside the U.S.)

_____ Hong Wan

_____ Zeyu Zheng

Your vote will be kept confidential. Your e-mail address will serve as your signature.

□

Candidate Biographies

ANDREA MATTA is a Full Professor of Manufacturing and Production Systems at the Department of Mechanical Engineering of Politecnico di Milano. He graduated in Industrial Engineering at Politecnico di Milano where he develops his teaching and research activities since 1998. He was a Distinguished Professor at the School of Mechanical Engineering of Shanghai Jiao Tong University from 2014 to 2016 and a Guest Professor between 2017–2019. He has been visiting professor at Ecole Centrale Paris (France), the University of California at Berkeley (USA), and Tongji University (China). He is scientific responsible for the Research Area *Design and Management of Manufacturing Systems* at MUSP (Laboratory for Machine Tools and Production Systems). His research area includes the analysis, design, and management of manufacturing and healthcare systems. He has published 170+ scientific papers in international and national journals/conference proceedings. He is Editor in

Chief of *Flexible Services and Manufacturing Journal* since 2017, and a past member of the editorial board of *OR Spectrum Journal* and *IEEE Robotics and Automation Letters journal*. He is Chair of the technical committee IEE RAS Sustainable Production Automation. He is a member of the scientific committee at several international conferences. Member of the Steering Committee of Ph.D. on Mechanical Engineering. Member of the ADA University Advisory Board. He was awarded with the Shanghai One Thousand Talent and Eastern Scholar in 2013.

SZU HUI NG is Associate Professor and Head at the Department of Industrial Systems Engineering and Management, National University of Singapore (NUS). She is also a Fellow at the Global Centre for Maritime Decarbonisation (GCMD). She holds B.S., M.S., and Ph.D. degrees in Industrial and Operations Engineering from the University of Michigan. Prior to joining NUS, she was a Research Fellow at the Singapore Institute of Manufacturing Technology (Agency for Science, Technology and Research). Her research interests include computer simulation analysis and optimization, applications of simulation to maritime transportation and maritime transport emissions and efficiency. She has completed various projects on shipping emissions and decarbonization, and on shipping network design and operations management for various government agencies and shipping companies. She was recently appointed by the International Maritime Organization (IMO) to serve on an expert panel to provide a review of the Fourth IMO GHG Study (MEPC 75-7-15), and has also been appointed by the IMO (Marine Environment Division) on several occasions to support and evaluate the work of several expert committees on impact assessments of short and mid-term measures for maritime decarbonization. Szu Hui has served on several program track committees at WSC over the years and was the sponsorship chair for WSC 2022.

HONG WAN received her Ph.D. in industrial engineering and management sciences from Northwestern University in 2004. She earned a Bachelor of Science in chemistry from Peking University in 1998, a Master of Science in materials sciences in 2001, and a Master of Science in industrial engineering and management sciences in 2002, both from Northwestern University. Before joining the NC State faculty, she was an associate professor in the School of Industrial Engineering at Purdue University. She initiated and directed the Purdue Blockchain Lab, the first one focusing on the operations research of blockchain. She is also part of the SEED Center for Data Farming at the Naval Postgraduate School. Wan's research focuses on learning-based simulation and distributed system behaviors. On the data side, her current concentration is on generative methods for data augmentation and simulation model construction. In distributed system behaviors, she is the NC State ISE blockchain lab director, which focuses on studying blockchain as a complex system using simulation, feature selection, game theory, optimization, and other operations research and statistical methods. Research-wise, she serves as Editor-in-Chief of the *Journal of Blockchain Research* (<https://tinyurl.com/yt9h2j6n>) and associate editor of *ACM TOMACS*. She has refereed papers from various journals, including, for example, *Operations Research* and *Management Science*. She is an active member of INFORMS and Simulation Society and served as the track coordinator of 2021–2022 and committee member of 2021 INFORMS.

ZEYU ZHENG is an Assistant Professor in the Department of Industrial Engineering and Operations Research at the University of California Berkeley. He received a Ph.D. in Management Science and Engineering at Stanford University in 2018, an M.A. in Statistics at Stanford University in 2016, and a B.S. in Mathematics at Peking University in 2012. His research interest includes the theory and methodological aspects of Monte Carlo simulation and simulation optimization. He is also interested in integrating machine learning tools to enhance simulation efficiency. Zeyu is a regular participant of the Winter Simulation Conference (WSC), previously serving as a co-proceedings editor and program committee members for the tracks of Analysis Methodology, Simulation and AI, Simulation Optimization, and Uncertainty Quantification and Robust Simulation.

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UPCOMING EVENTS

Event Calendar

Wei Xie

IISE Annual Conference & Expo 2023

May 20–23, 2023, New Orleans, Louisiana, USA

<https://www.iise.org/Annual/>

2023 SIAM Conference on Optimization

May 31–June 3, 2023, Seattle, Washington, USA

<https://www.siam.org/conferences/cm/conference/op23>

The 21st INFORMS Applied Probability Conference (INFORMS-APS)

June 28–30, 2023, Nancy, France

<https://informs-aps2023.event.univ-lorraine.fr/>

The 40th International Conference on Machine Learning (ICML)

July 23–29, 2023, Hawaii, USA

<https://icml.cc>

2023 INFORMS Annual Meeting

October 15–18, 2023, Phoenix, Arizona, USA

<https://meetings.informs.org/wordpress/phoenix2023/>

2023 Winter Simulation Conference

December 10–13, 2023, San Antonio Marriott Rivercenter, San Antonio, Texas, USA

<https://meetings.informs.org/wordpress/wsc2023/>



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