President's Message

NEWSLETTER

THE INSTITUTE OF MANAGEMENT SCIENCES

Spring 1980
Number 1
Volume 14
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**Editor's Corner**

The Editor wishes to thank the College for the opportunity to share news of the College and its activities. The College encourages all members to consider the benefits of membership and to participate in its programs and events. Joining the College allows you to stay informed about the latest developments in the field and to connect with other professionals in your area of interest.

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**President's Message**

The College continues to grow in membership and scope, with new members joining from various parts of the world. We encourage you to take advantage of the opportunities available to you as a member, including access to the latest research, networking events, and professional development programs. The College is committed to supporting the needs of its members and to fostering a community of excellence.

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**Minutes of College Meeting**

The College Meeting was held on [date]. Attendees discussed [topic], with a presentation by [name]. The meeting concluded with a vote to [vote result].

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**Minutes of OGS/TMS in New York**

The OGS/TMS meeting in New York was held on [date]. Attendees discussed [topic], with a presentation by [name]. The meeting concluded with a vote to [vote result].

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**Treasurer's Report**

The Treasurer's Report for the quarter ending [date] was presented. The report includes an update on the financial status of the College, including income and expenses. The report also highlights upcoming events and programs, as well as opportunities for members to get involved.

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**Abstracts of Papers**

A list of abstracts of papers presented at the [conference] was compiled. The abstracts cover a range of topics, including [topic 1], [topic 2], and [topic 3]. The abstracts provide a glimpse into the latest research and developments in the field.

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**SG-sponsored Philadelphia Meeting**

The College sponsored a meeting in Philadelphia on [date]. Attendees discussed [topic], with a presentation by [name]. The meeting concluded with a vote to [vote result].

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**Membership Form**

The Membership Form is available for downloading on the College's website. Members are encouraged to update their contact information and to consider joining other College-related organizations to expand their professional network.

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**Event Calendar**

The Event Calendar includes a list of upcoming meetings, conferences, and other events. Members are encouraged to attend these events to stay informed and to connect with other professionals in the field.

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**Directory**

The Directory includes a list of members, including their names, affiliations, and contact information. Members are encouraged to use the Directory to connect with others in the College and to explore new opportunities for collaboration.

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**Advertisements**

Advertisements for [product/service] are available for members to view. Members are encouraged to explore these advertisements to learn about the latest products and services available in the field.
MODSIM II -- Now Available

Object-Oriented Programming with Graphics

Free trial and, if you act now, free training

MODSIM II is a complete object-oriented language with built-in graphics

Full trial is now available. Just call us for a free trial, and start programming in Object-Oriented MIS. MODSIM II is designed to teach the concepts of Object-Oriented Programming in a way that is both intuitive and practical. It can be used in a wide variety of applications, from scientific modeling to business simulation.

Key Features:
- Powerful simulation constructs
- Inheritance and dynamic object creation
- Easy-to-learn syntax and structure
- Extensive documentation and support

Try MODSIM II today! Just call us for a free trial, and start programming in Object-Oriented MIS.

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Fax: 123-456-7891
Email: info@modsim.com

Don't miss your chance to experience MODSIM II for free! Act now and take advantage of this limited offer.

Terms and Conditions:
- Free trial lasts for 30 days
- No purchase obligation
- Offer valid for new customers only

Get started today and see the benefits of Object-Oriented Programming with Graphics!
Minutes of College Meeting at WSC 89

Here are the minutes of the college meeting at WSC 89:

- The meeting was called to order at 6:30 pm on October 16, 1989. Welcome to all those present.
- The minutes were approved to be placed in the hourly times for discussion.
- The meeting adjourns.

Tours of College Meeting at ORSA/TIMS in New York
TIMS/CS Newsletter

possibility of WSC using professional conference management. The earlier deadline for papers for WSC '90 was discussed at length. Roberts reported that the Board feels that the deadline decision should be made by the Conference Organizing Committee.

5. Professor Susumu Morita of Vaseda University in Japan reported on simulation activities in Japan. There is a special interest group on simulation of the Operations Research Society of Japan, which has about 50 members and meets bi-monthly.

6. Steve Roberts moved that the TIMS/CS reimburse award recipient (Publication and Service) for travel expenses to WSC to receive their award. After a friendly amendment by Lee Schubert, the following motion was passed:
The TIMS/CS shall reimburse Service and Publication award winners for reasonable expenses to WSC to receive their awards beginning with WSC '89; such expenses shall be approved by the Executive Committee of the TIMS/CS.

7. David Kelton moved that both awards be presented at WSC in the future. The motion passed.

8. Lee Schubert announced that Tom Schieber will replace Bruce Schmeier on the Distinguished Service Award Committee. Nominations are due to Chairman Robert Sargez by September 1, 1990. The 1989 recipient was Harold Highland.

9. Newsletter Co-Editor Jim Swain reported on the new format for the College Newsletter. He will investigate the cost of having a professional publisher layout, print and mail the Newsletter in the future and will report back to the College.

10. Jim Wilson read the report by Jorge Haddock’s committee on attracting women and minorities to simulation. Suggestions included providing help for course development, a paper-thesis competition, and offering services to speakers. Action will await a movement from the committee.

11. The motion by David Kelton to discontinue the Student Presentation Award, which was voted at the ORSA/TIMS NY business meeting was reintroduced. It passed.

12. The meeting was adjourned at 6:20 PM.

Respectfully submitted,
Barry L. Nelson
Secretary-Treasurer

Treasurer’s Report
For the period 10/3/89 through 3/14/90 the College had the following transactions at BancOhio National Bank, Columbus, Ohio.

<table>
<thead>
<tr>
<th>Balance forward:</th>
<th>$27734.73</th>
</tr>
</thead>
<tbody>
<tr>
<td>Revenues:</td>
<td></td>
</tr>
<tr>
<td>Interest earned</td>
<td>710.93</td>
</tr>
<tr>
<td>Dues</td>
<td>3.00</td>
</tr>
<tr>
<td>Total revenues</td>
<td>713.93</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Disbursements:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>College logo</td>
<td>30.00</td>
</tr>
<tr>
<td>Awards</td>
<td>65.75</td>
</tr>
<tr>
<td>Newsletters and Publicity</td>
<td>474.83</td>
</tr>
<tr>
<td>WSC '90 seed money</td>
<td>2000.00</td>
</tr>
<tr>
<td>WSC '91 reception</td>
<td>473.75</td>
</tr>
<tr>
<td>Total disbursements</td>
<td>3944.23</td>
</tr>
</tbody>
</table>

Net (revenues - disbursements) | -2330.46

Balance Forward (previous balance + net) | $25404.33

All funds are in a money market checking account at BancOhio National Bank. In addition to these funds, the College has an account at TIMS Headquarters the sum of $1360.33 (as of 3/14/90), bringing the College’s net worth to $26764.66.

Respectfully submitted,
Barry L. Nelson, Secretary-Treasurer
March 14, 1990
TIMS/College on Simulation presents awards to Dr. Harold Highland and Dr. Luc Devroye

TIMS College on Simulation presented the "Outstanding Service Award" to Dr. Harold J. Highland at the 1989 Winter Simulation Conference in Washington, D.C. The award, including a $500 honorarium, is given by the College to recognize exceptional and long-standing service to the simulation community. The award committee was chaired by Prof. Les Schruben (Cornell University) and included Professors Robert G. Sargent (Yale University) and Bruce Schmeiser (Princeton University).

Dr. Highland is Distinguished Professor Emeritus of the State University of New York Technical College at Farmingdale. Prior to joining SUNY in 1966, he was both Dean of the Rhode Island School of Business and Director of the Computer Laboratory at Brown University. During 1979-81, he was full-time professor of Computer Science and of Business at Northeastern University and at the Medical School of the University of Helsinki. Dr. Highland has taught and conducted seminars at numerous schools and, prior to joining the academic community in 1965, he had over 20 years of professional experience.

A prolific author and editor, Dr. Highland has written over 25 books during the past 50 years. Between 1934-35, he edited more than 20 sets of conference proceedings in computer modeling and simulation, as well as computer performance evaluation. In addition to being a founding editor of the Winter Simulation Conference for several years, Dr. Highland served as General Chairman of that conference in 1976. He has also been the Editor of several Association for Computing Machinery publications and is the Founding Editor and Editor-in-Chief of Computers and Security.

Dr. Highland maintains affiliations with numerous professional societies, including the IEEE Computer Society, the New York Academy of Science, IEEE Computer Society, and the American Association for the Advancement of Science.

Prof. Luc Devroye was presented an award at TIMS' College on Simulation's 1989 Winter Simulation Conference. The "1989 Outstanding Publication Award" and a $500 honorarium went to Prof. Devroye for his book, "Non-Homogeneous Random Variable Generation." The book was published in 1986.

Journal articles, proceedings papers, books, monographs, and technical reports copyrighted in the last four years were eligible for the award. The Awards Committee was chaired by Prof. Stephen G. Roberts (Princeton University) and included Prof. Gordon M. Clark (Ohio State University) and Dr. Peter Welch (IBM Corp.).

Luc Devroye was born in Tiervion, Belgium, and received his Ph.D. in Electrical Engineering (with Great Distinction) from the Catholic University of Louvain. He received his P.D. degree (same discipline) from the University of Texas at Austin. Since 1987 he has been a professor in the School of Computer Science at McGill University in Montreal, having risen to that rank from his initial appointment as a Visiting Assistant Professor in 1977. He has been a Visiting Professor in the Department of Statistics at Stanford University and in the Laboratoire de Statistiques at Université de Paris VII, as well as a Visiting Fellow in the Mathematical Sciences Research Centre at the Australian National University in Canberra.

Prof. Devroye has authored five books and over 100 refereed publications. His research interests include the application of probability theory and probabilistic methods in computer science, including expected value analysis of algorithms, random graphs, random optimization, and statistical pattern recognition. His publications in mathematical statistics focus on nonparametric estimation of density and regression functions. He is a 1987 recipient of the E.W.R. Steacie Memorial Fellowship, one of Canada's most prestigious academic awards.

—Stephen D. Roberts
Distinguished Service

Award for 1990

Outstanding Simulation Publication Awards

Announcement

This CS Newsletter
Trade Show & Exhibits

Professional Development Tutorials

Conference Program

Conference & Exhibition

Summer Computer Simulation

SCSC '90
The subscription fee in the new city is 450,000 yen. In addition to the subscription fee, there are no other costs for the subscription. The subscription fee can be paid in one lump sum or in installments. The installments are 150,000 yen per month, and the total number of installments is 3.

The subscription fee is based on the number of days in the month. The first month is 31 days, and the subsequent months are 30 days. The total cost for the subscription is 1,500,000 yen for the first month and 1,200,000 yen for the subsequent months.

The subscription fee is paid by credit card, bank transfer, or cash. The credit card payment is processed by a third-party service, and the bank transfer is processed by the bank. The cash payment is processed by the post office.

The subscription fee is non-refundable. If the subscriber cancels the subscription before the end of the subscription period, no refund will be given. If the subscriber fails to pay the subscription fee, the subscription will be cancelled.

The subscription fee is subject to change without notice. The subscriber will be notified of any change in the subscription fee in advance.

The subscription fee is not applicable to any other products or services. The subscriber is responsible for all taxes and fees related to the subscription fee.

The subscription fee is not transferable. If the subscriber transfers the subscription to another person, the subscription fee will not be transferred.

The subscription fee is valid only for the subscriber. The subscriber is responsible for all activities performed under the subscription fee.

The subscription fee is not applicable to any other subscriptions. The subscriber is responsible for all subscriptions purchased in addition to the subscription fee.

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The subscription fee is subject to change without notice. The subscriber will be notified of any change in the subscription fee in advance.
YOU WILL BE GLAD YOU TOLD THE PLANE YOU WOULD LAUNCH WITHOUT THE LANDING GEAR DOWN.}

**GENETIK**

**New GENETIK (Page 72)**

New GENETIK offers you more advanced features and capabilities than ever before. The latest release has grown in response to market demands for increased functionality and flexibility. The latest GENETIK SIMULATION SYSTEM has been expanded since its introduction, allowing the user to design and operate an aircraft, 800 baud computer interface, and simulation of the plane's environment. The latest GENETIK SIMULATION SYSTEM produces incredibly detailed and realistic simulations of the aircraft's environment, making it an invaluable tool for training and testing.
Theアルバム：ANNA / 4729 Roswell Rd. Suite 604-733
(404) 971-1256
?

(0240) 11920
?

CARSON BANKS ASSOCIATES

Moulding/Coating/Film Simulations

November 1999

December 9-12, 1999

Conference Newsletter

TIMES NEWSLETTER
Dance to a bigger, faster beat with GPSS/H 386

GPSS/H 386 is an extremely fast, simple-to-use simulation software. It allows you to simulate complex processes and systems on your PC. With its easy-to-use interface, you can quickly build models and analyze results. Its powerful capabilities make it ideal for a wide range of applications, from manufacturing systems to transportation networks.

Key Features:
- Simulate complex systems
- Easy-to-use interface
- High performance
- Unlimited scalability

Benefits of GPSS/H 386:
- Enhance decision-making
- Optimize resource utilization
- Improve system efficiency

GPSS/H 386 is available now, don't wait another second for the tool you need to improve your business processes.
## How to Join Time College on Simulation

### Simulation

**MANUFACTURING**

Note: This provide the example for the new system. Please use the new system for your work. If you have any questions, please contact Time College. The cost of this item is $100. The deposit of $50 is required. The balance is due by the end of the month.

<table>
<thead>
<tr>
<th>Name</th>
<th>Address</th>
<th>Phone</th>
<th>Email</th>
</tr>
</thead>
<tbody>
<tr>
<td>John Smith</td>
<td>123 Main St</td>
<td>555-1234</td>
<td><a href="mailto:john@email.com">john@email.com</a></td>
</tr>
<tr>
<td>Jane Doe</td>
<td>456 Elm St</td>
<td>555-5432</td>
<td><a href="mailto:jane@email.com">jane@email.com</a></td>
</tr>
<tr>
<td>Tom Johnson</td>
<td>789 Oak St</td>
<td>555-6789</td>
<td><a href="mailto:tom@email.com">tom@email.com</a></td>
</tr>
</tbody>
</table>

**Simulation Information**

- **Name**: John Smith
- **Address**: 123 Main St
- **Phone**: 555-1234
- **Email**: john@email.com

**Cost of Simulation**

- **Deposit**: $50
- **Balance**: $50

**Contact Information**

- **Time College**: 123 Main St
- **Phone**: 555-1234
- **Email**: info@timecollege.com

**Additional Information**

- **Simulation Package**: Available for purchase.
- **Discount**: 10% for current students.
- **Location**: Main Campus

**Other Information**

- **Start Date**: Next month
- **End Date**: End of the month

- **Refund Policy**: Within 7 days of purchase.

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**Time's News Letter**

- **Headline**: New System Launch
- **Details**: The new system is now available for use. Please contact Time College for more information.
- **Contact**: info@timecollege.com

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**Additional Notes**

- **Important Date**: March 15th
- **Reminders**: Please ensure you attend the training sessions.
- **Questions**: Contact the support team for any questions.

---

**Simulation Example**

- **Simulation Type**: Manufacturing
- **Simulation Level**: Advanced
- **Simulation Features**: Real-time data, interactive components, and detailed analytics.

---

**FAQ**

- **Q**: What is the cost of the simulation?
  - **A**: The cost is $100, with a deposit of $50.

- **Q**: How can I purchase the simulation?
  - **A**: Contact Time College for purchase options.

- **Q**: What is the refund policy?
  - **A**: Refunds are available within 7 days of purchase.
A Shorter Path to Patient Impact: Applying System Design Using Monte Carlo Simulation in Clinical Trials

Choosing Among Candidate Strategies for Biostatistics Meetings

TCS-Sponsored Philadelphia Sessions
Engineering, Purdue University, West Lafayette, IN 47907

We consider statistical (including stochastic-simulation) experiments that compare system designs. Given various assumptions and parameters, existing methodologies (e.g., ranking-and-selection or multiple-comparisons-with-the-best) calculate constants (e.g., sample sizes or quantities) necessary to guarantee some minimal nominal performance (e.g., probability of correct selection or overall confidence). We discuss Monte Carlo methods for a practitioner's estimate actual performance.

Statistical Issues in Simulation
Session Chair: Nabil R. Adam, Graduate School of Management, Rutgers University, Newark, NJ 07102

An Application of Variance-Reduction Techniques to a Naval-Gunfire Simulation Model
Keehun Kang, Michael P. Bailey, Alexander Callahan, and Marcelo Rizzoli, Department of Operations Research, Naval Postgraduate School, Monterey, CA 93943-5000

In this study, we examine the effects of ammunition component reliability on the performance of a naval gunfire support system. Due to the large number of possible component configurations, we were motivated to explore variance reduction through the use of control variates. In this talk, we share our results, as well as our experiences in applying control variates for a nontechnical client.

A Flexible Method for Estimating Inverse Distribution Functions in Simulation Experiments
Athanasios Arvanitis and James R. Wilson, School of Industrial Engineering, Purdue University, West Lafayette, IN 47907

To generate random variates from an unknown continuous distribution via the inverse-transform method, we present a flexible, computationally tractable procedure for estimating the associated inverse distribution function based on sample data. We present the results of an extensive Monte Carlo study to demonstrate the effectiveness of the method.

Estimating Acceptance-Sampling Plans for Dependent Production Processes
Barry L. Nelson, Department of Industrial and Systems Engineering, The Ohio State University, 1971 Neil Avenue, Columbus, OH 43210

When acceptance sampling is used to judge the quality of an ongoing production process, the quality of successive items may exhibit statistical dependence that is not accounted for in standard acceptance-sampling plans. This talk presents an efficient method for estimating single-sampling attributes plans for any production process model that can be simulated.

ANNOUNCING MAST
EDUCATIONAL VERSION
FEATURES

* Designed for the Study of Advanced Manufacturing
* Specializes in Simulation of Flexible Manufacturing System/Cells
* Low Inventory Product Icon Systems
* $500 For the First Copy
* $100 For Each Additional Copy
* Includes Queueing and Simulation Model
* Graphical Model Building Using Objects/Attributes

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