

The Society for Computer Simulation International

AUTHOR INSTRUCTIONS

2000 SUMMER COMPUTER SIMULATION CONFERENCE

July 16–20, 2000

Coast Plaza Hotel at Stanley Park, Vancouver, British Columbia, Canada

PLEASE REVIEW THIS MATERIAL CAREFULLY—IT CONTAINS INFORMATION THAT HAS NOT PREVIOUSLY BEEN INCLUDED IN OTHER SCS AUTHOR KITS

Please direct inquiries and correspondence regarding *SCSC 2000 Proceedings* to the SCS office. For registration and conference information see the registration form in this kit or contact the SCS office at:

The Society for Computer Simulation International
4838 Ronson Court, Suite L, San Diego, CA 92111-1800
Tel: (858) 277-3888; FAX: (858) 277-3930 ; E-mail: scs@scs.org

SCS Paper Code:

Primary Author:

Paper Title:

DUE DATE: June 1, 2000

Dear Author:

I am pleased to inform you that your above-referenced paper has been accepted for presentation at this conference and for printing in the conference *Proceedings*.

ACCEPTANCE IS CONDITIONAL UPON OUR RECEIVING YOUR FINAL DRAFT PAPER IN ELECTRONIC FORM BY THE DATE ABOVE AND/OR A PAID AUTHOR REGISTRATION FOR AT LEAST ONE OF THE AUTHORS OF EACH PAPER, AND ON A FINAL REVIEW OF THE DRAFT PAPER IN ELECTRONIC FORM. If your work must be cleared or approved before publication by your institution, company, or governmental agency, please be sure that process will be completed by the due date above or we will not be able to include it in the conference *Proceedings*. If the paper is not approved by that date, you can discuss the possibility of presenting it as a late paper with your Conference Chairman.

PLEASE NOTE: PAPERS CANNOT BE PUBLISHED IF PAYMENT (OR A PURCHASE ORDER) IS NOT RECEIVED BY THE ELECTRONIC FILE TRANSFER DUE DATE.

PAGE LIMITS — The page limit for manuscripts is six (6) pages (included in the author registration fee). Additional pages will be assessed at \$40 per page. Please see the enclosed registration form for any further registration information.

MULTIPLE PAPERS — If you are presenting multiple papers, please note that the first submission must be accompanied by full registration fee. All subsequent submissions will be charged either the full registration fee or \$40 per page, whichever is less. Please see enclosed author registration form for further information.

ELECTRONIC SUBMISSION PROCESS — Please note that your final manuscript will need to be electronically submitted as a PDF file to the SCSC 2000 Manuscript Central site <http://scsc2000.manuscriptcentral.com/> no later than June 1, 2000 to guarantee inclusion in the conference CD-ROM and final program schedule. Additionally, if you have changed the title, contributing authors and/or content of your abstract (as originally submitted) you will want to update this information at this time for an accurate listing in the SCSC 2000 book of abstracts that will be distributed at the conference.

The enclosed author kit is provided to aid you in preparing your paper for publication in the *Proceedings* and in preparing your oral presentation for the conference. **PLEASE FOLLOW THE INSTRUCTIONS CAREFULLY.**

PREPARING MANUSCRIPT FOR ELECTRONIC SUBMISSION

Authors must submit final draft paper electronically in portable document format (PDF file). The formatting requirements for PDF page layout are described in the following pages of the author kit.

Creating a PDF file is done by processing a Postscript file through Adobe Acrobat Distiller or using a PDF writer if it is installed on your computer. If you do not have direct access to a copy of Acrobat Distiller, a PDF writer or the latest version of Ghostscript that converts Postscript to PDF, you can use the Net Distiller at <http://www.babinszki.com/distiller/>

This is a free service that uses Ghostscript to convert Postscript files to PDF.

Creating a Postscript file for LaTeX involves using dvips or a close relative. For MS Word Documents, Postscript is created by invoking "print to file" and then choosing a Postscript-compatible printer.

STEP 1 – Create text for your manuscript in a word processing program, such as MSWord, Corel Word Perfect or Sun's StarOffice. Note if you have a table within your text be sure to use the Insert Table function instead of using tabs and spaces. Try to avoid using unusual fonts. We recommend these common fonts:

- Times New Roman
- Symbol
- Arial
- Verdana

Try to avoid fonts that begin with WP, as they have restricted licenses.

STEP 2 – Import your figures into your text file. After the last word of text or last page of tables in your manuscript, insert a page break to begin a new blank page in your manuscript. There are many ways to put your figures into this file. You might have to experiment to see which gives you the most satisfactory images.

The most commonly used methods are:

Choose Insert, Picture, From File. This will allow you to import a variety of image type files, including JPG, and TIF. The result should be your image on that blank page. Then move to the bottom of that page, insert a page break, then repeat the import process for other figures.

OR

Open the image in its original format, choose Edit, Select All, Edit, Copy, then move to the blank page, and Edit, Paste (copy-and-paste).

OR

Create a PDF of each figure by using the File, Print, PDF Writer command, then combine at a later point. You must own PDF Writer software to choose this method.

Be sure that each image is clearly labeled (e.g. Figure 1, Figure 2a).

Save this file with the figures embedded.

STEP 3 – Convert this file to a PostScript (PS) file or PDF file using the instructions below.

POSTSCRIPT (PS) FILE FORMAT

PostScript is a page description language for printing and imaging devices. Content written in PS language can be sent to a printer that "understands the language", a.k.a. PS printer, to generate a hard copy, or saved in a file to be transmitted electronically to a remote PS printer to be printed. Unlike word processor files, which require the corresponding application so corresponding hardware platform and operating environment to format and print, PS files do not need any process other than sending to a PS printer. This is why it is chosen to be one of the two file formats for electronic submission.

HOW TO GENERATE POSTSCRIPT FILES

ON WINDOWS 3.x/95/98/NT COMPUTERS – If you are using a PostScript printer, then all you need to do is select the "Print to File" option when printing your manuscript from your word processor. Choose File, Print, then check the Print to File box. Choose OK, then enter your file name. Otherwise, you need to install a PostScript printer driver (Note: You do not need to have a PostScript Printer to use the driver). Windows Installation CDs or diskettes contain many PS drivers; the Apple LaserWriter or HP LaserJet 4/4M Plus PS drivers are good choices. You may also download the latest general purpose PS printer driver free from Adobe, Inc. at: www.adobe.com/support/downloads/main.html.

Follow the instructions to install the printer driver using the Control Panel's Add Printer tool. Then select that printer (driver) in your word processor's Printer Setup menu, and select the "Print to File" option in the Print dialogue box.

ON MACINTOSH COMPUTERS – First select a PostScript printer using Chooser. The Apple LaserWriter is a good choice, and should be available on your system. (Note: You do not need to have the printer to use the driver) Then when you print the document, change the "Destination" from "Printer" to "PostScript file" in the Print dialogue box.

PORTABLE DOCUMENT FORMAT (PDF) FILE FORMAT

PDF files are platform-independent page description files derived from PS files. They are very secure and are quite difficult to alter. In addition to all advantages of PS files for electronic submission, a PDF file can be viewed on screen using the free software Acrobat Reader on Windows or Mac machines. Moreover, it can be printed to non-PS printers from the Reader program. PDF files can be converted from PS files, or generated directly by a word processing software via a built-in PS printer driver. The size of a PDF file is usually significantly smaller than the corresponding PS file because it is optimized by compression and downsampling of high resolution (color) images.

HOW TO GENERATE PDF FILES

USING ADOBE ACROBAT DISTILLER – Acrobat Distiller comes with the software package Adobe Acrobat for converting a PS file to a PDF file. Once installed, all you need to do is to double click on the PS file and a PDF file will be created. You may even set up a watched folder so that any file dropped into that folder will be automatically converted to PDF. The approximate price in the US for both the Windows and the Mac versions of Adobe Acrobat 4.0 is \$230.

USING ADOBE ACROBAT WRITER – Another Acrobat application intended for generating PDF files directly from application programs is Acrobat Writer, which comes with the Acrobat package that contains Distiller. It is a printer driver that you install on your computer. You may then print your document by selecting the PDF Writer as your printer and print it to a file which is in PDF format. While the PDF writer is intended to eliminate the intermediate step of printing to a PDF file, at the present time this application has problems embedding non-standard fonts into the resulting PDF profile. Thus, the PDF file may print correctly on your computer or any other computers that have all the needed fonts installed, but it will not print correctly if any font is missing.

LINKS TO OTHER FREEWARE PDF WRITERS

To find these, go to <http://www.zdnet.com/downloads/> then enter "PDF" into the Search field, choose PC or Mac, then press Go. The top three for PCs are listed here.

- PDF Creator
- Simple PDF
- DocuCom PDF Driver

FINAL PAPER SUBMISSIONS CHECKLIST

Please utilize this checklist to aid in the tracking of your conference registration and manuscript publication.

__ MANUSCRIPT

Your manuscript of six (6) pages or less in PDF document format, uploaded to SCSC 2000 Manuscript Central Website. Manuscripts exceeding the page limits will only be accepted with payment of the excess page charge of U.S. \$40 per page. Please see the enclosed registration form for any further registration information. Send or fax one copy of your final paper to SCS along with your SCSC registration, transfer of copyright and other forms contained herein.

__ REGISTRATION FORM AND PAYMENT

Payment of the fees is a requirement of having your paper published in the proceedings. If your paper and your payment are being processed separately, please include a note with registration form indicating such. The Advance Registration fee is associated with publication of the paper and is NOT REFUNDABLE, but is transferable to the designee who will present your paper at the conference. **Authors of published manuscripts must pay the full registration fee.**

__ TRANSFER OF COPYRIGHT FORM

We require as a condition for acceptance of papers that all authors execute the copyright transfer to Simulation Councils, Inc., the name under which the Society for Computer Simulation International is incorporated. Please note that by signing the form you are simply giving your permission to SCS to publish the paper. For this reason, there is no problem if the material is already in the public domain, such as work done with government support. The Society for Computer Simulation International controls the commercial use of material we publish, while you or your company retain the right to reuse the work, in whole or in part.

__ SPECIAL A/V REQUESTS

Please take a moment to include this information with your paper. An overhead (one will be in every room) or a 35mm projector (please request) is available at no charge. All other special requests require payment up front for their rental fees. Availability is limited, and reservations are on a first-come, first-served basis. ***We cannot guarantee that special A/V requests beyond the above listed will be available at the time of the conference without prior notification and payment.*** For those who prefer to use a laptop computer for their presentation, a SVGA projection system will be available for a rental fee of \$100 per session. At the conference, you will be required to pay for any equipment at the Registration Desk at the time of request.

__ BIOGRAPHICAL NOTE

Complete the enclosed form with a brief note about you for use as introductory material by your session leader at the conference.

__ INDIVIDUAL REPRINT ORDER FORM

Individual Reprint Order Form and prepayment, if desired. (optional)

All material should include the SCS Paper ID Code (e.g., 2600, 9820, etc.). SCS is not responsible for correspondence or forms submitted without this code.

Thank you for your interest and cooperation. We hope that you will find participation in the conference professionally stimulating and rewarding. If you have any questions regarding the conference or your paper submission, please call or write us.

PLEASE DO NOT UPLOAD YOUR PDF DOCUMENT TO THE SCSC 2000 MANUSCRIPT CENTRAL WEBSITE UNTIL YOU HAVE RECEIVED THE PROPER COMPANY, GOVERNMENT, OR SECURITY CLEARANCE. THANK YOU.

1"
6pts.

Text Begins Here
(on subsequent pages)

Center Title Here (12-14 pts.)
(ALL CAPS, one to three lines)

Center
Name of Author(s)
and Affiliation(s)
(One to Five Lines)
(Use Upper and Lower Case)

Text Begins Here
(first page only)

3/4"
4p6

1/4"
1p6

3/4"
4p6

This sheet should act as a template for the form of your manuscript. ***Please keep your spacing as close to these figures as possible, to insure uniformity.*** Additional instructions may be found in this packet.

When using A4 paper, the size of the columns and the space between them should remain the same. The left and right margins should be 0.6" or 3p7, and the bottom margin should be 2" or 12p.

1 1/4"
7p6

INSTRUCTIONS FOR PREPARATION OF MANUSCRIPT

It is important to note that the appearance of your paper in the Proceedings will depend largely upon the care you take in preparing the original manuscript and graphic material. ***SCS is not responsible for replacing or correcting papers or pages. Please be sure your final paper is free of typographical errors and omissions before submitting it to SCS.***

TYPING AND LAYOUT SHEETS

PLEASE FOLLOW THE SAMPLE PRINTOUT FOR GUIDELINES ON MARGINS, LAYOUT STYLE, ETC.

1. Manuscripts must be typed two columns to a page.
2. Your text should be no smaller than 8 point type, and no larger than 10 point. Choose a standard font.
3. The text need not be right justified (squared off on the right).
4. Text should be single-spaced, with double spacing between paragraphs, and with a 5-space paragraph indentation.
5. The title and author information should be centered.

HEADINGS

TITLE OF PAPER

Type the title in capital letters, centered on the page horizontally, one inch from the top edge of the first page. Space down three lines, then type the name of the author (first name first), author's business or school affiliation, complete address, and e-mail address using upper and lower case letters. Make it a complete mailing address, for example:

A GENERAL MODEL OF INFORMATION TRANSFER
Mary M. Doe and John J. Smith
Department of Computer Science
University of Anytown
Anytown, California 92000
e-mail: doe@anytown.edu

KEYWORDS

Begin each paper with a list of no more than five keywords. It should start in the left column, approximately 3 lines below the author address. Use the list of "Partial List of Frequently Used Keywords," as your guide.

ABSTRACT

After Keyword Listing, begin each paper with an abstract (100-200 words) that summarizes the topic and important results presented in the paper. Start with the abstract heading, typed in caps, beginning with the left-hand margin. Underline or bold the heading. Skip a line space, then begin the abstract.

MAJOR HEADINGS

Type in capitals, beginning flush with left-hand margin. Underline or bold. Skip a line space, then begin text.

Subheadings

Capitalize the first letter of each word, beginning flush with left-hand margin. Underline or bold. Skip a line space, then begin text.

Secondary Subheadings. Capitalize the first letter of each word. Indent 5 spaces from the left-hand margin. Underline or bold. Text follows on the same line.

FOOTNOTES

Use footnotes sparingly. Begin two line spaces from previous text by typing a short horizontal line, using the underscore key 13 times. Skip 1/2 or one line space, type footnote symbol, then type footnote.*

REFERENCES

In text, references should be cited by the last name of the author and the year of publication, all in parentheses. The Reference List should be organized alphabetically by the name of the author, followed by the author's initials, year of publication, and other complete information about the published work. It should not be numbered. Only references that may be readily obtained should be cited in the list. Others may be referred to as "personal communication" in the text. In the reference list, multiple entries with the same author are arranged chronologically. Italicize the name of the publication in which the article is found, or the title itself if a separate publication (underline if italicizing is not possible). For laboratory, company, or government reports, all information on how to obtain the report should be included. For Ph.D. and M.S. theses, the institutions granting the degree should be given. References to proceedings should include the full name of the proceedings, publisher, year of publication, and page numbers of article cited. A reference to part of a book should include the range of pages in which the material is cited. Names of periodicals should be written out in full, and the range of pages cited. For style and consistency, the *Chicago Manual of Style* will govern.

EXAMPLES**IN TEXT:**

(Smith 1978)

Jones and Miller 1983)

(Arthur *et al.* 1985) if more than three authors

(Andrews 1982a) a trailing lowercase letter should distinguish multiple papers by the same author(s) published during a single year.

(Dijkstra 1972; Hoare *et al.* 1980; Smith and Kim 1984b)

IN REFERENCE LIST:**JOURNAL:**

Balci, O. and R.G. Sargent. 1981. "A Methodology for Cost-Risk Analysis in the Statistical Validation of Simulation Models." *Communications of the ACM* 24, NO. 4 (Apr.): 19-197.

BOOK:

Felker, D.B.; F. Pickering; V.R. Charrow; V.M. Holland; and W.L. Harper. 1980. *Data Processing Documentation: Standards, Procedures and Applications*. Prentice-Hall, Englewood Cliffs, N.J.

* Footnote symbols follow the conventional order of asterisk (*), then double asterisk (**), dagger (†), then double dagger (‡).

BOOK CHAPTER:

Balci, O. and R.G. Sargent. 1983. "Validation of Multivariate Response Trace-Driven Simulation Models." In *Performance '83*, A.K. Agrawalla and S.K. Tripathi, eds. North Holland, Amsterdam, 309-323.

CONFERENCE PROCEEDINGS:

Gass, S.I. 1978. "Computer Model Documentation." In *Proceedings of the 1978 Winter Simulation Conference* (Miami Beach, FL, Dec.4-6). IEEE, Piscataway, N.J., 281-287.

SPECIAL PUBLICATION:

National Bureau of Standards. 1976. *Guidelines for Documentation of Computer Programs and Automated Data Systems*. Federal Information Processing Standards Publication 38. Government Printing Office, Washington, D.C. (Feb.).

TECHNICAL REPORT:

Balci, O. 1985. "Guidelines for Successful Simulation Studies." Technical Report TR-85-2. Department of Computer Science, Virginia Tech, Blacksburg, Va. (Nov.).

RESEARCH REPORT:

Iglehart, D.L. and G.S. Shedler. 1983. "Simulation Output Analysis for Local Area Computer Networks." Research Report RJ 4020 (45068). Research Division, IBM, San Jose, CA (Sept.).

PAGE NUMBERING AND PAPER IDENTIFICATION

DO NOT TYPE PAGE NUMBERS. Final page numbers will be inserted by the publisher.

Label your electronic file with your paper code (assigned by SCS) and on the first page of all copies and forms. This is for handling and identification purposes only and will not be reproduced.

TABLES AND ILLUSTRATIONS

In the interest of clarity and uniformity, graphs, tables and illustrations should be kept within a single column, if possible. If not, extension across two columns is permissible.

BIOGRAPHY

If space permits, it is worthwhile to include a brief biography (no more than 300 words) of the author(s) at the end of the manuscript. This allows the viewing and reading audience to become familiar with the background of the author, thus giving the paper greater impact and validity.

IF YOU HAVE ANY QUESTIONS REGARDING THE PREPARATION OF MANUSCRIPTS, IT IS BEST TO HAVE THEM ANSWERED NOW — CONTACT THE SCS OFFICE FOR ANY CLARIFICATION.

SPEAKER'S INSTRUCTIONS

We have enclosed some guidelines you will find helpful as you prepare your oral presentation for the conference. Please note the list of audio-visual equipment which will be available for your use at the conference. If you require any other equipment, you must advise us well in advance and you are responsible for the cost. We will try to accommodate your needs without extra cost to you, but special orders may be charged directly to you.

INTRODUCTION

Good visual aids can greatly enhance the effect your presentation has on the audience. Experience at past conferences has shown that many of the oral presentations have not been adequately prepared. Often an attempt was made to present too much material and too much detail. Visual aids, the primary means to hold the attention of the audience, were often poorly conceived and inadequately prepared. It is our hope that these guidelines will help you prepare a better visual presentation.

SCSC 2000 plans call for the nominal session to run 90 minutes without a break and to include four papers. This allows 5 minutes for introductions and then 20 minutes per paper, of which 5 minutes should be reserved for audience questions and comments.

REMEMBER, your entire paper is published in the *Proceedings*. Your objective in the oral presentation should be to describe the highlights of your paper, progress since the paper was written, and future plans. Do NOT try to present the paper in its entirety, or to read it!

PREPARATION OF PRESENTATION

BASIC ORGANIZATION

The most significant constraint facing the speaker is the time limit for presentation. As described above, presentations are nominally allotted 20 minutes, followed by 5 minutes for questions and discussion. This allows time to speak about 2000 words -- far less than the size of a paper.

This time limit also restricts the number of concepts or major technical points that can be made by the speaker and absorbed by the audience. As a guideline, it is suggested that a presentation cover no more than 10 technical points.

Logically linked by the theme of the paper, each of these technical points can be expressed as a declarative statement, substantiated with supporting material. Though the selection of no more than 10 significant points may seem like a great hardship, it will enhance the audience appreciation of a paper by focusing on the most significant information.

VISUAL AIDS

The best way to present material in a limited time period is to use well-conceived visual aids that support each of the points to be made. As a first approximation, the speaker should PLAN FOR overhead foils or "VIEWING FRAMES" FOR EACH OF THE 10 TECHNICAL POINTS to be presented. All rooms will be set up for overhead presentations. Any additional audio-visual requirements must be arranged through the SCS office prior to the conference.

Visual aids significantly simplify the presentation task. They simultaneously focus the audience attention and provide cues for the speaker. The speaker should plan to speak about all of the material on a foil (or it shouldn't be there) before amplifying a single item.

In general, include no more than six supporting concepts on each foil presenting one technical point. If there are more, simply select the most pertinent. Remember once again, visual aids are not a complete reconstruction of the manuscript. The full story appears in the *Proceedings* and visual aids are only attention-focusing cues for the most interesting highlights.

TIMING

A speaker can expect to speak about SIX SENTENCES PER OVERHEAD, WHICH NORMALLY RUNS ABOUT 120 WORDS OR 1 TO 1.5 SPOKEN MINUTES. Since a speaker will have ten OVERHEAD FOILS, the basic presentation will run ten minutes. This allows 5-10 minutes to title, identify, and summarize the basic material, recognizing that audience receptiveness peaks at the beginning and conclusion of each talk.

SPEAKER ATTITUDE AND SPONTANEITY

The primary advantage for the speaker who organizes his presentation in this manner is that he can approach the audience with the assurance that HE CAN EASILY AND EFFECTIVELY PRESENT THE SALIENT POINTS IN HIS PAPER.

Since the speaker is cued by his overhead foils, and since he certainly can speak to any of the technical points he has selected for at least one minute, the speaker no longer needs a written speech or even prepared notes. Thus, a measure of spontaneity can enter the technical presentations.

DEVIATIONS FROM GUIDELINES

The Session Chairperson makes the final decisions regarding timing of presentations, subject to the constraint that all papers in the session must be completed within the time allotted. Any deviations from these guidelines should be approved by the Chair.

SPEAKER'S BREAKFAST

On the morning of your presentation, a Speaker's Breakfast will be held for you to meet with your Session Chair and Co-Presentors. This meeting is mandatory.

Help Model the Future, Join SCS Today

If you are not already a member of *the Society for Computer Simulation International (SCS)*, NOW is the perfect time to join. The importance and usefulness of computer simulation has grown at a pace equal to the recent innovations in hardware and technology, and SCS has grown with it. To stay current and competitive in your field you need to keep up with these changes -- perhaps even guide them. SCS exists to help you do just that. Simply fill out the enclosed membership form and return it with your registration form to take full advantage of all that SCS has to offer.

Established in 1952, *The Society for Computer Simulation International (SCS)* is the only technical society dedicated to advancing the use of computer simulation to solve real world problems. **SCS membership** represents a worldwide network of professionals committed to guiding the growth and acceptance of computer simulation. Through regional councils in North America, the European economic community, and the Pacific Rim nations, **SCS conferences** present the opportunity to network, join technical committees, organize a session, or publish a paper within your field of expertise. The monthly journal *SIMULATION*, the quarterly journal *TRANSACTIONS*, and *The Directory of Simulation Software* are a few **SCS publications** that keep our members current with advancements in simulation technology.

Be an active member of SCS and help model the future.

LIST OF AUDIO-VISUAL EQUIPMENT

OVERHEADS/ 35MM PROJECTORS

Each meeting room will be equipped with an overhead unit for $8\frac{1}{2} \times 11$ transparencies. 35mm slide projectors will be made available **ONLY BY ADVANCED REQUEST** with the SCS office.

VIDEO EQUIPMENT

Those who wish to make presentations via videotapes must **MAKE ARRANGEMENTS TO PAY FOR THE EQUIPMENT THEMSELVES**. Authors should remember that video equipment and computer projector rental rates are relatively high (\$125-\$300 PER DAY) and the 21" or 25" screens are undesirable for use with an audience of over 40 attendees.

LCD PROJECTOR

LCD projectors must be reserved with the SCS Office prior to the conference. Cost is \$100.00 per presentation (based on availability).

MICROPHONES/AMPLIFICATION EQUIPMENT

This will be available for every meeting room where more than 40 attendees are expected.

COMPUTERS

Speakers bringing microcomputers for demonstration during their session should notify the SCS office *at least four weeks in advance* of the meeting so that a table and power will be available. Speakers are responsible for their computer systems and must **MAKE ARRANGEMENTS TO PAY FOR THE EQUIPMENT THEMSELVES**. SCS accepts no liability for them.

LIST OF AUDIO VISUAL NEEDS

PAPER NO. _____

List Audio/Visual needs:

To help SCS market the SCSC 2000 more effectively, please answer the following questions:

Target audience of or your paper:

List of Hardware/Software used in your paper:

Vendors you feel will enhance the conference Exhibits Area. Please list company, phone number and contacts.

Group: _____

Session: _____

Day: _____

PLEASE RETURN THIS COMPLETED FORM TO:

**SCS
4838 Ronson Court, Suite L
San Diego, California 92111-1800**

AUTHOR'S BIOGRAPHY

Instructions: You may use this form or if you already have a biography you may use it. This is simply to provide your session leader with enough information to introduce you. Authors are encouraged to include a brief biography at the end of their paper if space permits.

Name: _____

Address: _____

_____ Phone No. (_____) _____

Present Employer: _____

Duties or Job: _____

Highlights about your present work: _____

Past Employment: _____

Education: _____

Civic and professional activities, awards etc.: _____

Other: _____

Group: _____ Session: _____ Day: _____

PARTIAL LIST OF FREQUENTLY USED KEYWORDS

AUTHORS: Using this list as a guide, select no more than five (5) keywords indicating subject areas applicable to your paper. These will be used in the indexing of your paper.

APPLICATIONS _____

Aerospace
Agriculture
Automatic control
Behavioral science
Biology
Business
Chemical engineering
Civil engineering
Communications
Computer-aided design
Computer aided manufacturing
Computer performance
Computer software
Computer systems
Control systems
Corporate planning
Criminology
Cybernetics
Ecology
Education
Electrical engineering
Electronics
Energy
Environmental science
Finance
Forestry
Geophysics
Government
Graphics
Health care
Health sciences
Hydrology
Image processing
Industrial control
Industrial engineering
Industrial processes
Information systems
Labor
Management science
Manufacturing
Marine
Marketing
Mechanical engineering
Military
Natural resources
Naval
Neurosciences
Nuclear engineering
Operations research
Pattern recognition
Petroleum engineering
Pharmacokinetic
Physics
Physiology
Political science
Production
Psychology
Resource Management
Signal processing
Social science
Speech recognition

Telecommunications
Test equipment
Thermodynamics
Transportation
Trainers
Urban affairs
VLSI and Simulation

COMPUTERS AND COMPONENTS _____

Analog computers
Analog/digital converters
Array processors
Calculators
Communications processors
Distributed processors
Function generators
Hybrid computers
Man-machine interfaces
Microcomputers
Multiprocessors
Personal computers
Signal processors
Simulators
Special-purpose processors

LANGUAGES _____

Combined (continuous/discrete)
Continuous
Discrete
Financial planning
Network
Specific language used:

MANAGEMENT AIDS _____

Decision-making
Decision support systems
Forecasting
Management games
Policy-making
Risk analysis

MATHEMATICAL METHODS _____

Data enrichment
Differential equations
Dynamic programming
Error analysis
Estimation
Filtering
Function generation
Integration
Least-squares methods
Linear programming
Mathematical programming

Nonlinear programming
Numerical methods
Optimization
Partial differential equations
Random number generation
Regression analysis
Sampling
Spectral analysis
Statistical analysis
Stiff equations
Time Series analysis
Transforms

MODEL AND SIMULATION MANAGEMENT _____

Computer-aided analysis
Documentation
Model acceptance
Model analysis
Model credibility
Model design
Model evaluation
Model testing
Model transfer
Software cost analysis
Software engineering
Software management
Standards
Name of model used:

MODELING METHODOLOGY _____

Approximation techniques
Arrival generation
Bond graphs
Delphic techniques
Model reduction
Parameter identification
Performance analysis
Sensitivity analysis
Truncation error
Validation
Variance reduction
Verification

SIMULATION METHODS _____

Combined simulation
Continuous simulation
Discrete simulation
Emulation
Gaming
Hybrid simulation
Interactive simulation
Man-in-the-loop simulation
Real-time simulation
System dynamics

SOFTWARE _____

Database management systems
Differential equation solvers
Graphics packages
Interactive programs
Microprogramming
Operating systems
Program generators
Report generators
Statistical packages

SYSTEM OPERATION _____

System analysis
System engineering
System identification
System management

THEORY _____

Catastrophe
General systems
Philosophy

TYPES OF MODELS _____

Compartmental
Corporate
Decision
Deterministic
Dynamic
Econometric
Event-oriented
Feedback
Global
Grid
Hierarchical
Interactive
Linear
Lumped parameter
Markov-chain
Matrix
Meta
Microanalytic
Monte Carlo
National
Network
Nonlinear
Qualitative
Queuing
Probabilistic
Process-oriented
Real-time
Regional
Stochastic
Topological
Vector
World

PLEASE RETURN THIS COMPLETED FORM TO SCS

**TRANSFER OF COPYRIGHT TO
SIMULATION COUNCILS, INC.
(The Society for Computer Simulation International)**

Present title of work: _____

Author (s): _____

Conference: _____

IMPORTANT NOTE: The primary author must sign this form.

I hereby transfer exclusively to Simulation Councils, Inc. (SCi) all rights granted to me by the copyright laws of the United States of America and other countries, subject to the reservations below.

1. The transfer of copyright shall become effective only upon SCi's acceptance for publication of the work.
2. The authors reserve all proprietary rights (such as patent rights) in this work other than the copyright transferred to SCi by this document.
3. After this work has been published by SCi, the author retains the right to republish it in whole or in part in any book of which he is an author or editor and to make personal use of this work in lectures, courses, or otherwise.
4. If this work is in the public domain, such as government work, I simply authorize its publication.
5. If this work is subject to security clearance I certify that as of the date below it has been cleared.

I warrant that the above work has not been previously published elsewhere, or, if it has, that I have obtained permission for its publication by SCi and that I will promptly supply SCi with wording for crediting the original publication and copyright owner.

Date

Signature of primary author

Print name

Please return executed copy of this form to:

**The Society for Computer Simulation International
4838 Ronson Court, Suite L
San Diego, CA 92111-1800**

**The Society for Computer Simulation International
INDIVIDUAL REPRINT ORDER FORM**

Publication/Conference: _____ SCSC 2000 Paper No.: _____

Author(s): _____

Title: _____

Ordered by: _____ Telephone Number:(____) _____

Standard reprint is 8 1/2 x 11, 50# White Offset,
Black Ink, Stapled. Minimum Order: 100 copies.

All Reprint Orders must be Prepaid

ORDER INFORMATION	AMOUNT
First 100 copies: _____ pages @ \$28.00 per page	U.S. \$ _____
Each additional 100 copies: _____ hundred x _____ pages @ \$9.00 per page	_____
Standard Covers: ___ Yes ___ No	
First 100: _____ @ \$69.00 per hundred	_____
Additional: _____ hundred @ \$28.00 per hundred	_____
Special Covers: ___ Yes ___ No	
<i>(Call the SCS office for information)</i>	
Late Charges: \$35.00 for orders received after publication Offset press (necessary for clear reproduction of photographs). Additional \$65.00	_____
Special Shipping: _____	_____
PAYMENTS: All checks must be in U.S. funds drawn on a U.S bank. Make check payable to SCS. Include Purchase Order number if applicable:	TOTAL AMOUNT: _____
_____	TOTAL REMITTED: _____
	BALANCE DUE: _____
Charge to: ___ AMEX ___ VISA ___ MASTERCARD Auth. Number: _____	
Auth. Signature: _____ Exp. Date: _____	

Federal Tax I.D. Number: #95-6059107

COVER NOTE: Standard cover depends on original book cover design. It will be the same as original cover if order is received in time. Otherwise, it will be a black and white reproduction. Our graphics department will use their best judgement, unless you specify otherwise. Special colors or imprinting will be at an additional cost. Request estimate in advance.

SHIPPING: All shipments are sent surface mail unless another method is requested. The cost of special shipping will be billed to you. Shipments are made approximately 30 days after the date of the conference, or receipt of order, whichever is later. Outside North America please allow 90 days for delivery by surface mail.

SHIPPING LABEL MUST BE FILLED OUT COMPLETELY PLEASE PRINT LEGIBLY

TO: _____
 NAME _____
 AFFILIATION _____
 SHIPPING ADDRESS _____
 CITY _____ COUNTRY/STATE _____ ZIP/POST OFFICE _____

SCS INTERNATIONAL MEMBERSHIP APPLICATION

HOME ADDRESS

Last Name: _____ First Name: _____ M.I. _____
Address: _____
City: _____ State: _____ Zip: _____ Country: _____
Telephone: (_____) _____ Fax: (_____) _____
E-mail: _____

BUSINESS ADDRESS

Position or Title: _____
Organization/Company: _____
Department: _____
Employer Address: _____
City: _____ State: _____ Zip: _____ Country: _____
Telephone: (_____) _____ Fax: (_____) _____
E-mail: _____

MAILING

Mailing Address: Home Business Billing Address: Home Business

DEMOGRAPHIC

Job Sector: Government Industry Academia Consultant Other: _____
Job Function: _____
Highest Degree: _____ Year of Degree: _____
How many years have you been working in simulation or a related field: _____
Gender: Male Female Date of Birth (D/M/Y): ____ / ____ / ____

ANNUAL MEMBERSHIP DUES

Full Member @ \$85.00 (U.S.) per year
 Associate Member @ \$85.00 (U.S.) per year
 Student Member @ \$22.00 (U.S.) per year
 1 year 2 year 3 year payment MEMBERSHIP FEES \$ _____

PUBLICATIONS

Dues for membership to SCS include a subscription to the monthly journal *SIMULATION*.

In addition SCS members may elect to receive additional publications at discounted prices.

Please check the appropriate line.

TRANSACTIONS Subscription (Quarterly) @ \$40.00 (U.S.) per year
 SCS Membership Directory @ \$10.00 (U.S.) per year
 2000 Simulation Software Directory @ \$25.00 (U.S.) per year
PUBLICATION FEES \$ _____

PAYMENT METHOD

Payment enclosed. Make checks payable to SCS
 Credit card payment
Card Number: _____ Expiration Date: _____
Signature: _____
TOTAL AMOUNT DUE \$ _____
Bill my: Mastercard Visa AMEX

**Do NOT forget to fill in the other side. This will enable SCS to give added value to your subscription.
Enclose payment and drop in the mail or FAX both sides of the application form to: (858) 277-3930.**

PROFESSIONAL AND TECHNICAL INTERESTS

PROFESSIONAL/TECHNICAL COUNCILS

The following professional/technical member councils represents the major areas of interest within SCS. Each of these councils has an elected representative in the Board of Directors, and thereby influences the policy and technical priorities of SCS. Choose **up to two areas** of interest by indicating your first and second choice.

- Simulation Theory and Methodology
- Simulation Technologies
- Simulation of Engineering Applications
- Simulation in Business, Economics, and Finances
- Simulation in Natural Sciences and Medicine
- Simulation Applications for Education and Public Service

TECHNICAL INTERESTS

Knowing your technical interest areas assists SCS to better serve your needs. Choose **up to five areas** you are actively interested in:

- | | | |
|--|---|--|
| <input type="checkbox"/> Aerospace | <input type="checkbox"/> Electro-Optics | <input type="checkbox"/> Operations Research |
| <input type="checkbox"/> Agent Based Simulation | <input type="checkbox"/> Emergency Planning and Management | <input type="checkbox"/> Parallel and Distributed |
| <input type="checkbox"/> Air Traffic Control | <input type="checkbox"/> Energy | <input type="checkbox"/> Physical Sciences |
| <input type="checkbox"/> Applied Mathematics | <input type="checkbox"/> Experimental Design | <input type="checkbox"/> Power Plant Simulation |
| <input type="checkbox"/> Artificial Intelligence, Expert Systems | <input type="checkbox"/> Financial Planning | <input type="checkbox"/> Process Engineering |
| <input type="checkbox"/> Automotive Systems | <input type="checkbox"/> Geophysical Systems | <input type="checkbox"/> Qualitative Simulation |
| <input type="checkbox"/> Biomedical and Medicine | <input type="checkbox"/> Government | <input type="checkbox"/> Queueing Systems |
| <input type="checkbox"/> Bond Graph Modeling | <input type="checkbox"/> High Performance Computing | <input type="checkbox"/> Real Time Systems |
| <input type="checkbox"/> Business Applications | <input type="checkbox"/> Human Factors | <input type="checkbox"/> Robotics |
| <input type="checkbox"/> CAD/CAM/CIM | <input type="checkbox"/> Industrial Engineering | <input type="checkbox"/> Scheduling |
| <input type="checkbox"/> Chemical Engineering | <input type="checkbox"/> Information Systems and Decision Support Systems | <input type="checkbox"/> Simulation Languages |
| <input type="checkbox"/> Civil Engineering | <input type="checkbox"/> Inventory and Production | <input type="checkbox"/> Spreadsheet Modeling |
| <input type="checkbox"/> Computer Architecture | <input type="checkbox"/> Life Sciences | <input type="checkbox"/> Standards |
| <input type="checkbox"/> Computer Networks | <input type="checkbox"/> Management Science | <input type="checkbox"/> Statistics |
| <input type="checkbox"/> Continuous Systems | <input type="checkbox"/> Manufacturing | <input type="checkbox"/> System Dynamics |
| <input type="checkbox"/> Control Engineering | <input type="checkbox"/> Marine Applications | <input type="checkbox"/> Telecommunications Systems |
| <input type="checkbox"/> Discrete Systems | <input type="checkbox"/> Military | <input type="checkbox"/> Training Simulators |
| <input type="checkbox"/> Distributed Interactive Simulation | <input type="checkbox"/> Mission Earth, Environmental Simulation | <input type="checkbox"/> Transportation and Traffic |
| <input type="checkbox"/> Economics | <input type="checkbox"/> Neural Networks | <input type="checkbox"/> Verification, Validation |
| <input type="checkbox"/> Education | <input type="checkbox"/> Object Oriented Simulation | <input type="checkbox"/> Virtual Reality |
| <input type="checkbox"/> Electronics | | <input type="checkbox"/> Visualization, Graphics Animation |
| | | <input type="checkbox"/> Other: _____ |

BECOMING ACTIVE IN THE SOCIETY

- I would be willing to review technical articles for The Society in my fields of interest
- I would like to become active in simulation conferences
- I would like to do the following: _____

OTHER INFORMATION

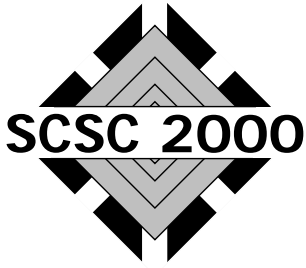
What kind of hardware and software are you using for your **simulation** area?

Hardware: _____

Software: _____

- I do not want my address given to other SCS members with the same interest areas.
- I do not want my address information to go outside of SCS

Return to: SCS Membership, P.O. Box 17900, San Diego, CA, USA 92177-7900



The Society for Computer Simulation International

2000 SUMMER COMPUTER SIMULATION CONFERENCE

July 16-20, 2000

Coast Plaza Hotel at Stanley Park, Vancouver, British Columbia, Canada

REGISTRATION FORM

This registration form must be completed and returned with your manuscript. Registration fee must be guaranteed by receipt of check or credit card number for paper inclusion in conference proceedings. Registration is not refundable.
Registration fee includes: attendance at the conference, authors breakfast, copy of the Proceedings and any planned social function.

Author name: (for badge) _____ Position: _____

Organization: (for badge) _____

Mailing Address: _____

City: _____ State/Country: _____ ZIP: _____

Business Phone: _____ Home Phone: _____

FAX: _____ e-mail: _____

Paper Title (1): _____ Paper #: _____

Paper Title (2): _____ Paper #: _____

Please check appropriate box to indicate your position in the Conference organization

Track Chair Group Chair Session Chair Author/Presenter Panel Chair Panelist

CONFERENCE FEES

Member #: _____

(Authors of published manuscripts must pay full registration fee)

Registration for 1st paper	Early (<i>before 6-30-00</i>):	Late (<i>after 6-306-00</i>):	
SCS Members:	\$395.00	\$455.00	
Non-Members:	\$480.00	\$540.00	\$ _____

Extra page charges (**\$40 per page over 6 pages**): \$ _____

Registration for 2nd paper		
Members:	\$395 or \$40 per page, whichever is less	
Non-members:	\$440 or \$40 per page, whichever is less	\$ _____

SCS Membership Dues (Check here and enclose membership application)

TOTAL* \$ _____

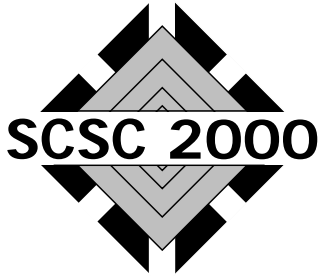
Method of Payment: (*No cash accepted*)

VISA Mastercard American Express Check* Company Purchase Order Gov't DD Form 1556

Card Number: _____ Exp. Date: _____

Authorizing Signature: _____

*** All Checks must be made payable to SCS and drawn on U.S. banks or International Money Orders in U.S. funds**



The Society for Computer Simulation International

2000 SUMMER COMPUTER SIMULATION CONFERENCE

July 16-20, 2000

Coast Plaza Hotel at Stanley Park, Vancouver, British Columbia, Canada

HOTEL RESERVATION FORM

Reservations must be received by June 30, 2000 to qualify for conference rate, those received after this date will be accepted on a space available basis only.

Please reserve accommodations for:

Name(s): _____

Company: _____ No. of Guests: _____

Address: _____

City: _____ State: _____ ZIP: _____

Phone Number: _____ FAX Number: _____

Arrival Date: _____ Departure Date: _____

Credit Card Type: AMEX VISA Mastercard Discover Diner's Club
(circle one)

Credit Card Number: _____ Exp. Date: _____

Cardholder's Name: _____

Hotel check-in is 3:00 p.m. and check-out is 12:00 p.m.

One nights deposit or a credit card number must accompany this form for reservations to be guaranteed. 72 hours notice of cancellation is required for refund of deposit. Only a certain number of rooms have been reserved at the discounted group rate. Please make your reservations as soon as possible.

Room Preference: Smoking Non-Smoking (subject to availability)
 One bed (king) Two beds (double)

Room Rate: Standard Room:\$160/\$180 (Canadian Dollars)
1 Bedroom Suite:\$210/\$230 (Canadian Dollars)

\$20.00 per night for each additional person in rooms with more than 2 people.

Please return this reservation request to:
Coast Plaza Suite Hotel at Stanley Park
Reservations
1763 Comox Street
Vancouver, British Columbia
Canada V6G 1P6
Phone: 800-663-1144 • 604-688-7711
FAX: 604-688-0885