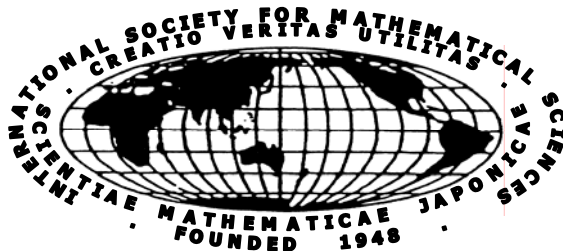


Notices from the ISMS

September 2006

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**For the Welfare of the Humankind
Promoting Mathematical Sciences**

Two Open Problems

Steven J. Brams, New York University

1. *Is there always an envy-free division of a pie into sectors (or wedges), using radial cuts, that is Pareto-undominated?*

Background: David Gale posed this problem in “Mathematical Entertainments,” *Mathematical Intelligencer* 17, no. 4 (Fall 1993): 30-35. Julius B. Barbanel and Steven J. Brams, “Cutting a Pie Is Not a Piece of Cake” (preprint, 2006), showed that there is always an envy-free, Pareto-undominated division for two persons, and they gave a procedure for finding one. They also showed that there is not always such a division for 4 persons without assuming *absolute continuity of player measures* (if a piece has positive measure for one player, it has positive measure for all players); whether there is always such a division with absolute continuity is not known.

To summarize, Gale’s question for 3 persons (with or without absolute continuity), and for 4 or more persons (with absolute continuity), remains open.

2. *What is the minimum number of colors required to color a planar map in the Map Coloring Game (MCG)?*

Background: In three “Mathematical Games” columns in *Scientific American* in 1981 (April, June, and October), Martin Gardner described the MCG, which was first posed by Steven Brams in 1980 and independently by Hans Bodlaender in 1991. The MCG is a two-person game played by a Minimizer (Min) and a Maximizer (Max), who alternate moves. Min begins by coloring a region of a planar map, followed by Max who colors a different region. Thereafter they alternate coloring regions that have not been previously colored until all regions are colored.

Min seeks to minimize the number of colors that need to be used, and Max seeks to maximize this number, such that (i) no adjacent regions have the same color and (ii) no new color can be introduced unless it is forced because of adjacency. As discussed in Gardner’s columns, it is trivial to show that at least five colors are needed; Lloyd Shapley showed that the skeleton of a dodecahedron requires six colors; and Robert High gave a 20-region map that requires seven colors. Currently, the lower bound on the minimum number of colors required is eight; it has been shown that there is an upper bound of 17 colors. More on these bounds, and how they were found, is given in Tomasz Bartnicki, Jaroslaw Grytczuk, H. A. Kierstead, and Xuding Zhu, “The Map Coloring Game,” *American Mathematical Monthly* (forthcoming).

If this range can be narrowed to a single number (e.g., 10), and the two-person game can be shown to contribute exactly the number of colors in excess of 4, then, miraculously, this would be a non-computer proof of the Four-Color Theorem (proved in 1976). In game-theoretic language, this theorem showed that four is the minimum of colors required in a one-person game, wherein Min is the player.

Communications

(1) 2006 ISMS Research Meeting

ALGI 17 (The 17th Algebra, Logic, Geometry and Informatics)

This is a series of seminars on applications of algebra, logic and geometry to informatics, and applications of informatics to these areas of mathematics. ALGI is organized especially for people in informal semantics of programming languages, as there were no such in this field, while there are already several series of seminars in Japan for people in the field between mathematical logic and theoretical computer science.

Date: October 12 – 13, 2006

Place: Nara Women's University

Contact Person: T. Takai (t-takai@aist.go.jp)

(2) ISMS CO-SPONSORED MEETINGS

(The 3rd Symposium on Scientific Technology for Verification and Semantics)

Date: October 30 - November 1, 2006

Place: Senri Life Science Center Building, Osaka, Japan (Near Senri Chuo Station)

Sponsored by: Japan Science and Technology Agency, and

Research center for Verification and Semantics, AIST

(3) The 2006 Kyoto Prize

Commemorative Lectures

Date: Saturday November 11, 2006

Place: Main Hall, Kyoto International Conference Hall

13:00 Opening

Master of Ceremonies: Isamu Akashi

Opening Address

Kazuo Inamori, President, Inamori Foundation

Lectures

Dr. Leonard Arthur Herzenberg, the Laureate in Advanced Technology

Title: "The More We Learn"

Dr. Hirotugu Akaike, the Laureate in Arts and Philosophy

Title: "The Use of Mathematics for Deciphering the Movement of An Object:
A Historical Review of the Introduction of AIC"

Mr. Issey Miyake, the Laureate in Arts and Philosophy

Title: "One Life, One Thread, One Piece of Cloth: The Work of Miyake Issey"

16:30 Closing

The event is supported by Kyoto Prefectural Government, Kyoto City Government, Kyoto Prefecture's Board of Education, The Kyoto City Board of Education, Kyoto Chamber of Commerce and Industry, The Kyoto Shimbun, The Sankei Shimbun, Kyoto News, Jiji Press, NHK, Kyoto Broadcasting System, α -STATIONA FM KYOTO, and The Consortium of Universities in Kyoto

Basic Sciences

Symposium Modeling, Prediction and Knowledge Discovery-A New World Opened up by the Information Criterion-

DATE: Sunday November 12, 2006

PLACE: Kyoto International Conference Hall

Coordinator

Kazuo Murota (Member, Kyoto Prize Selection Committee in Basic Sciences; Professor, Graduate School of Information Science and Technology, the University of Tokyo)

Takashi Tsuchiya (Member, Kyoto Prize Selection Committee in Basic Sciences; Professor, Department of Mathematical Analysis and Statistical Inference, the Institute of Statistical Mathematics)

(4) Announcement of Meetings in Topology

July 2007

Summer Conference on Topology, and its Applications 2007

Unibversitat Jaume I, Castellón, Spain.

Organizers: J. Font, J. Galindo, S. Hernandez, S. Macario, M. Sanchis, A. Rodenas

See: www.sumtop07.uji.es

August 6-August 12, 2007:

International Conference on Quantum Topology

Hanoi Institute of Mathematics

Hanoi, Vietnam

Description: The conference aims to educate young researchers in Quantum Topology,

Discuss new developments in the area, and bring together different points of view of Geometry, Topology, Algebra, and Quantum Field Theory.

Organizers: Do Ngoc Diep and Nguyen Viet Dung (Institute of Mathematics, Hanoi, Vietnam).

Stavros Garoufalidis and Thang Le (Georgia Tech).

Scientific Committee: C. Gordon, University of Texas, Austin,

V.Jones, University of California, Berkeley

V.Trraev, University of Strasbourg.

See: <http://www.math.gatech.edu/~stavros/vietnam.html>

Communicated by Gerhard Preuss

**(5) The 7th International Conference on Optimization(ICOTA 7) :
Techniques and applications**

**December 12-December 15, 2007, International Conference Center,
Kobe, Japan**

The International Conference on Optimization : Techniques and Applications (ICOTA7) is an official conference series of POP (The Pacific Optimization Research Activity Group). The goal of ICOTA is to provide an international forum for scientists, researchers, software developers, and practitioners to exchange ideas and approaches, to present research findings and state-of-the-art solutions, to share experiences on potentials and limits, and to open new avenues of research and developments, on all issues and topics related to optimization and its applications.

Topics

Topics that are of interest to ICOTA7 include (but not limited to) those listed in the following:

- Optimization theory and numeral algorithms in linear programming, nonlinear programming, integer programming, network optimization, semi-definite programming, stochastic programming, dynamic programming, optimal control, global optimization, nonsmooth optimization, semi-infinite programming, multi-objective optimization, variational inequalities, complementarity problems, and mathematical programs with equilibrium constraints
- Algorithms design, analysis and implementation of traditional mathematical programming methodology and modern techniques such as meta-heuristics for combinatorial and continuous optimization
- Applications in engineering, nonlinear systems, stochastic systems, control, data/text mining from large databases, intelligent information and technology, systems science, knowledge management, information and communication networks, transportation, scheduling, logistics, finance, game theory, industrial engineering, management science, and operations research

Registration Fee

On/Before Sep. 20, 2007	Regular JPY45,000	Student JPY15,000
After Sep. 20, 2007	Regular JPY50,000	Student JPY20,000

A banquet ticket for accompanying person or a student is JPY5,000

The registration fee entitles participants to:

- 1) Attendance at the conference
- 2) Conference documents (CD-ROM and book of extended abstracts)
- 3) Social activities,
- 4) Coffee and tea breaks
- 5) Reception,
- 6) Banquet (on December 14, 2007)

The registration fee entitles students to:

- 1) Attendance at the conference

- 2) Conference documents (CD-ROM and book of extended abstracts)
 3) Coffee and tea breaks, 4) Reception
 and is only applicable to full time students

Correspondence and Inquiries

Please forward your name and email address to:

Office: Institute of Intelligent Information and Communications Technology
 (IICT),
 Konan University

E-mail: ICOTA7@iict.konan-u.ac.jp

ICOTA webpage is: <http://www.iict.konan-u.ac.jp/ICOTA7/>.

Plenary Speakers

Kristin P. Bennett	Rensselaer Polytechnic Institute
Lou Caccetta	Curtin University of Technology
Kalyanmoy Deb	Indian Institute of Technology
Francisco Facchinei	University of Rome La Sapienza
Satoru Fujishige	Kyoto University
Ya-xiang Yuan	Chinese Academy of Sciences

Important Dates

Extended abstracts Submission: August 1, 2007

Full papers submission: August 1, 2007

Note: the author who submits a full paper must also submit an extended abstract with the full paper together.

Notification of acceptance for extended abstracts and full papers

September 10, 2007

Early bird registration September 20, 2007

Camera-ready version for extended abstracts and full papers:

October 15, 2007

Note: the author must submit both Camera-ready manuscripts of the extended abstract and the full paper if his/her full paper was accepted.

Conference: December 12-December 15. 2007

Special Issues

Selected papers presented at the conference will be published in special issues of the journals including:

- Pacific Journal of Optimization, ● TBD
- Journal of Industrial and Management Optimization

ICOTA Steering Committee

Co-Chairs:

Alex Rubinov	University of Ballarat
Liqun Qi	City University of Hong Kong

Members:

Lou Caccetta (Australia),	Xiaoqiang Cai (Hong Kong),
Vladimir Demyanov (Russia),	Gianni Di Pillo (Italy)
Shu-cherng Fang (USA),	Masao Fukushima (Japan)
Hirokata Nakayama (Japan),	Panos Pardalos (USA)

Danny Ralph (United Kingdom),
Kok Lay Teo (Australia),
Michel Thera (France),
Soon-yi Wu (Taiwan),
Xinmin Yang (China),
Wuyi Yue (Japan)

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Wuyi Yue
Masao Fukushima

Konan University
Kyoto University

Members:

Hiroataka Nakayama
Liqun Qi
Alex Rubinov
Kok Lay Teo

Konan University
City University of Hong Kong
University of Ballarat
Curtin University of Technology

International Program Committee

Co-chairs:

Kok Lay Teo
Hiroataka Nakayama

Curtin University of technology
Konan University

Members:

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John Birge
Henri Bonnel
Lou Caccetta
Xiaojun Chen
Francisco Facchinei
David Gao
Satoshi Ito
Hubertus Jongen
Christian Kanzow
Hiroshi Konno
Takahito Kuno
Donghui Li
Duan Li
Zhi-Quan Luo
Diethard Pallaschke
Volker Rehbock
Siegfried Schaible
Kiyotaka Shimizu
Jie Sun
Yutaka Takahashi
Tamaki Tanaka
Tetsuzo Tanino
Pham Dinh Tao
Huifu Xu

University of Ballarat
University of Chicago
University of New Caledonia
Curtin University of technology
Hirosaki University
University of Rome la Sapienza
Virginia Technology University
Institute of Statistical Mathematics
RWTH Aachen University
University of Wuerzburg
Chuo University
University of Tsukuba
Hunan University
Chinese University of Hong Kong
University of Minnesota
University of Karlsruhe
Curtin University of Technology
University of California, Riverside
Keio University
National university of Singapore
Kyoto University
Niigata University
Osaka University
National Institute for Applied Sciences
University of Southampton

Local Committee

Chair: Masahiro Tanaka, Konan University

Conference Coordinator: Akiyoshi Wakatani, Konan University

Publication Coordinator: Naoya Nitta,
Members: Keiji Tatsumi, Osaka University,
Masahiro Wada, Konan University
Eiji Watanabe, Konan University,
Nobuo Yamashita, Kyoto University

Konan University

Secretary: Ukiko Sagami, Konan University

The ISMS

(1) RESULTS OF CONFIDENCE VOTES

The confidence votes for President Elect and Officers were conducted based on the 2006 Bylaws with the deadline of August 10, 2006. The results are as follows.

President Elect.....Confidence 14 / No-confidence 0 / Total 14

Secretaries.....Confidence 14 / No-confidence 0 / Total 14

Council Members ...Confidence 14 / No-confidence 0 / Total 14

Therefore, all of the nominators have won the confidence of the ISMS members.

The following is the **new administration** including the above results.

Board of Officers

1. President ...**Kiyoshi Iseki** (Term of office: Until Dec. 31, 2007)
2. President Elect ...**Hisao Nagao** (Until Dec. 31, 2007)
3. Immediate Past President ...Vacant
4. Treasurer ... **Toshio Nishida** (Until Dec. 31, 2007)
5. Secretaries ...
 - (1) Secretaries in charge of publishing (5 seats)
 - (a) SCMJ (2 seats) **Tadashige Ishihara** (Until Dec. 31, 2007)
(1 seat is vacant)
 - (b) Notices (1 seat) ... Vacant
 - (c) Kaiho (1 seat) **Masatoshi Fujii** (Until June 30, 2009)
 - (d) WWW (1 seat) **Shintaro Mohri** (Until June 30, 2009)
 - (2) Secretaries in charge of Meetings (5 seats)
 - (a) Assembly type meetings (1 seat) **Nobuo Inagaki** (Until June 30, 2009)
 - (b) IVMS (1 seat) **Atsushi Yagi** (Until Dec. 31, 2007)
 - (c) Distance Symposium (2 seats) **Masaru Nagisa** (Until June 30, 2009)
Shinji Kuriki (Until June 30, 2009)
 - (d) International Co-sponsored meetings (1 seat)
Wuyi Yue (Until June 30, 2009)
 - (3) Secretaries in charge of Business Administration (4 seats)
 - (a) PR for Individual members (2 seat)
Yoshinobu Teraoka (Until June 30, 2009)
(1 seat is vacant.)
 - (b) PR for Associate Members (1 seat) **Ashis SenGupta** (Until June 30, 2009)
 - (c) Journal Exchanges (1 seat) **Akira Tsutsumi** (Until Dec. 31, 2007)
 - (4) Secretary in charge of Prizes (1 seat) **Masako Sato** (Until Dec. 31, 2007)

Board of Trustees

Treasurer ...**Toshio Nishida** (Until Dec. 31, 2007)

Auditor ... **Hisashi Choda** (Until Dec. 31, 2007)

Associate Treasurer ... **Koyu Uematsu** (Until Dec. 31, 2007)

Immediate Past Associate Treasurer ... Vacant

Council Members

The council members consist of the above officers and the following members.

(Domestic members) (8 seats)

Yoshiki Kinoshita (Until June 30, 2009), **Wataru Takahashi** (Until June 30, 2009),

Yasunao Hattori (Until June 30, 2009), **Hiroaki Ishii** (Until June 30, 2009), **Shizu Nakanishi** (Until Dec. 31, 2007), **Juniti Nagata** (Until Dec. 31, 2007), **Minoru Sakaguchi** (Until Dec. 31, 2007), **Masanobu Taniguchi** (Until Dec. 31, 2007).

(Foreign Members) (10 seats)

Alexander V. Arhangel'skii (U.S.A.) (Until Dec. 31, 2007),

Angelo Favini (Italy) (Until Dec. 31, 2007),

Vladimir Mazalov (Russia) (Until Dec. 31, 2007),

Gerhard Preuss (Germany) (Until Dec. 31, 2007),

Ioan A. Rus (Romania) (Until Dec. 31, 2007),

Krzysztof Szajowski (Poland) (Until June 30, 2009)

4 seats are vacant.

Editorial Committee of Kaiho (in Japanese)

Mariko Yasugi (Kyoto Sangyo Univ.), **Yoshiki Kinoshita** (AIST), **Yasunao Hattori** (Shimane Univ.), **Kozo Yamada** (Shizuoka Univ.), **Masaru Nagisa** (Chiba Univ.), **Kiyoshi**

Iseki, Wuyi Yue (Konan Univ.), **Masanobu Taniguchi** (Waseda Univ.), **Hisao Nagao,**

Tadashige Ishihara, Wataru Takahashi (Tokyo Inst. of Tech.), **Yoshinobu Teraoka** (Osaka Pref. Univ.), **Yoshikazu Yasui** (Osaka Kyoiku Univ.), **Shizu Nakanishi, Masatoshi Fujii** (Osaka Kyoiku Univ, Managing Editor), **Junichi Fujii** (Osaka Kyoiku Univ.), **Katsuhiko Miyamoto** (Kansai Univ.), **Toshio Nishida.**

No members of Board of Officers, Board of Trustees, Council or Editorial Committee of Kaiho are prevented from being reappointed.

(2) **Bylaws 2007**

Thanks to the elections done this time, we are confident that the ISMS administration has become enhanced and internationalized, however, a little more officers are necessary to promote various international activities toward new era of mathematical sciences. As this addition should be accompanied by revision of the bylaws, **Bylaws 2007** is to be enacted according to the following schedule, and the officers election shall be done based on the new bylaws.

- (1) Announcement of Bylaws 2007 (Draft) [here in the Notices from the ISMS](#) (October 2006),
Vote by virtue of www by the ISMS members with the deadline of October 20, 2006.
- (2) Acceptance of candidates for the additional officers with the deadline of November 20, 2006.
- (3) Announcement of the candidates in the [next Notices from the ISMS](#) and start of voting.
- (4) Announcement of the result in the [Notices from the ISMS \(January 2007\)](#).
The term of office of the newly added officers shall be from February 1, 2007 to June 30, 2009.

(3) **Bylaws 2007 (Draft)**

The only changes to be made in Bylaws 2007 are the numbers of officers and secretaries

as follows. In the following list, the left side is the description in Bylaws 2006 and the right side is the suggested changes.

Article I - Board of Officers

fifteen secretaries and a treasurer → **twenty-nine** secretaries and a treasurer

Article IV - Council

(1)**thirty-six** members→**fifty** members (2)**eighteen** officers→**thirty-two** officers

(4) 2006 ISMS Annual Meeting

The ISMS annual meeting (Chairman: Prof. Hiroaki Ishii) was held on August 17, 2006 at Graduate School of Information Science and Technology, Osaka University. The programs were as follows.

Statistical Design and its surrounding

10:00~10:25

Shinji Kuriki (Osaka Prefecture University, Graduate School of Engineering):
Square lattice designs in incomplete split-plot designs

10:25~10:50

Masahide Kuwada (Hiroshima University, Graduate School of Engineering),
Yoshifumi Hyodo (Okayama University of Science, Graduate School of Informatics),
Eiji Taniguchi (Okayama University of Science, Graduate School of Informatics):
Balanced Second-order Designs of Resolutions $R(\{10\} \ S \ | \)$ for the 3^m Factorial

11:00~11:25

Teng Jun Peng (Kobe University, Graduate School of Cultural Studies and Human Science), Takeaki Suetsugu (Kobe City College of Technology), Teruhiro Shirakura (Kobe University, Faculty of Human Development): Search designs and its Optimality

11:25~11:50

Hiroyuki Uozumi (Osaka Prefecture University, Graduate School of Engineering):
BIBD in incomplete ranking problems

Statistical Inference and Statistical Finance

10:00-10:40

Takayuki Fujii (Osaka University):
Convergence of the likelihood ratio process for the change-point parameter

10:40-11:20

Yoshiji Takagi (Osaka Prefecture University):
Universal admissibility in second order asymptotics

11:20-12:00

Etsuo Kumagai (Osaka University):
Data analysis on the total fertility rate

13:30-14:10

Masayuki Jimichi (Kwansei Gakuin University):
Feasibility of shrinkage regression estimators

14:10-14:50

Toshiharu Hayashi (Osaka Prefecture University):
Interval estimation in a competing risk model

15:00-15:40

Nobuo Inagaki (Professor Emeritus, Osaka University):
Mathematical, computational and informational aspects of statistics

OR Group Chairman : Hitoshi Hohjo

13 : 30~14 : 00 N person games of timing on sale

By Yoshinobu Traoka and Hitoshi Hohjo

Graduate School of Science, Osaka Prefecture University

14 : 00~14 : 30 The replenishment policy for an inventory system with a fixed ordering cost and a proportional penalty cost under Poisson arrival demands

By Hitoshi Hohjo and Yoshinobu Traoka

Graduate School of Science, Osaka Prefecture University

14 : 40~15 : 10 An optimal discount pricing policy for special display goods

By Hidefumi Kawakatsu

Department of Information and Management Science,

University of Marketing & Distribution Sciences

15 : 10~15 : 40 Competitive facility location problem with fuzzy demands vary on facilities

By Shigehiro Osumi and Shogo Shiode

Faculty of Business Administration, Kobe Gakuin University

15 : 50~16 : 50 A simple two-player two-sided games of deception

By Minoru Sakaguchi (Professor Emeritus, Osaka University)

Call for Papers, Call for Members

Scientiae Mathematicae Japonicae(SCMJ) calls for excellent papers.

(1) Authors can choose one of the editors in the Editors List and send their papers directly to him/her for refereeing which promises **quick refereeing and publication**.

(2) If the SCMJ authors prepare their files in ISMS standard format (Js.), the lead time from acceptance to the online publication **will be extremely short or nil**.

(3) In the proofreading is made by the SCMJ (Paper or TeX) author, we will publish the paper on the Web as soon as we receive the corrected galley proof.

(4) The Journal is reviewed by **Mathematical Review and Zentralblatt from cover to cover**.

(A) Submission

Authors are requested to choose one of the editors in the SCMJ editors list and send

their papers, satisfying all of the following conditions, **directly to the editor**. The editors list can be obtained from (i) URL:<http://www.jams.or.jp/> (ii) “ Editorial Board” of SCMJ(Vol.60, No.1, July 2004).

Prepare **e-mail Form for Submission and three** hard copies of your paper, **three** hard copies of Form for Submission, and send them as follows.

- **To the editor's e-mail address**; Form for Submission (with the abstract)
- **To the editor's postal address**; **Two** hard copies of your paper, **two** hard copies of the Form for Submission (with the abstract)
- **To the e-mail address of ISMS** ([http://www.jams.or.jp/hp/submission f.html](http://www.jams.or.jp/hp/submissionf.html)); Form for Submission (with the abstract)
- **To the postal address of ISMS**; **One** hard copy and **one** Form for Submission

The received date of the paper is the date when the editorial office receives the paper together with the Form for Submission, and not necessarily the date when the editors receive them.

To e-mail Form for Submission is mandatory to support the editor-receive-system, not to waste the precious research time of the editors and promote efficiency in the editorial procedure.

(B) Abstract

Every paper should contain an abstract. Try to limit your abstract to 20 lines when typed in TeX. The abstract should be a kind of mini research announcement which is **self-contained** and gives **the overview** of your paper. Abstracts of accepted papers are **very rapidly displayed** on ISMS home page and are announced **all over the world via Internet**. Abstracts in Paper Form and E-mail Form should be typed **in Text file**. If it is inevitable for you to use symbols in the abstract, you may make it in a TeX source file indicating **the kind of TeX** as notes, for example, (via LaTeX2e).

(C) Data

The full postal address, telephone and facsimile numbers, e-mail address of the author should be specified at the bottom of the last page of the manuscript. 2000 AMS Subject Classification and Keywords should be written both in Paper, E-mail Form and at the **footnote** on the first page of the manuscript.

(D) Receipt

ISMS will send a letter of receipt when we receive a hard copy, a Paper Form and E-mail Form (if the author has e-mail facility). The received date is to be specified in the letter.

(E) Revision

If revision of your paper is necessary, the editor informs you directly. When you revise abstract of your paper in that case, you should send new Paper Form with new abstract and E-mail Form with new abstract also.

(F) Acceptance or Rejection, Page Charges

ISMS will inform authors of **acceptance or rejection** of their papers **by e-mail**. Author should choose one of the following 3 types of his final draft he will send after acceptance of his paper, (1) **P**: Paper draft only (2) **T**: Paper prepared using TEX and its source file (3) **J**s: Paper prepared using TEX with ISMS style file, and its source file.

List of the page charges for SCMJ (2006 year)

	Individual/ Associate Member	Non Member
Paper : P	¥3,850(US\$35, €28)	¥4,450(US\$43, €35)
TEX : T	¥2,200(US\$18, €14)	¥2,800(US\$26, €21)
Js : Js	¥1,100(US\$8, €7)	¥1,700(US\$16, €14)

The above page charges include 20 offprints. The additional page charge may be required for the figures contained in the papers. For more information, see our Web Page.

1) **Js** (ISMS style TeX) files mean the files which are ready for publication without any process by our Publication Dept. Please note whether the file meets the requirement of the ISMS style or not **is judged by ISMS Publication Dept.** Js files can be made using the ISMS style file for AMS-LaTeX, LaTeX, or LaTeX2e, which can be downloaded from ISMS Web Page. AMS-TeX files cannot be **Js files** any more.

The procedure to make Js files :

- (a) Prepare your paper in AMS-LaTeX, or LaTeX.
- (b) Use the following ISMS style file to make your paper "ISMS style TeX" (Js). (The ISMS style files can be obtained from ISMS Web Pages.)
If your paper contains graphs or figures which cannot be processed even in LaTeX(2e), make them EPS (Encapsulated Post Script) files and then PDF files.

(G) After Acceptance

If the paper is accepted, P authors are requested to send the following (1) & (2), T and Js authors (1) – (4).

(1) A hard copy of the final draft(for publishing)

- (2) Paper Form for WWW
- (3) The source file of the final draft in TeX, by e-mail or on diskette.
- (4) E-mail Form for WWW

(H) Proofreading

ISMS will send a galley proof to P and T authors only but **not to Js authors.** We regard the final files sent by Js authors as ready for publication.

(I) Offprints

Every author can obtain a **password to read his paper and** can make **as many offprints as they want**, using Acrobat Reader. A copy of the printed version of **the issue** is US\$10 or equivalent UNESCO Coupons for ISMS members and authors, and US\$30 or equivalent UNESCO Coupons (or Union Postale Universelle) for non-members.

Items required in “ Form for Submission ” (from 2006)

Give the following information by filling in the items on the list.

105. Write the name of the editors whom you will send your manuscript to be refereed.
 110. Date of dispatching this form
 120. Title of Paper
 125. Abbreviated Title of Paper (Less than 35 letters)
 130. AMS Subject Classification 2000 in <http://www.ams.org>
 132. Keywords and phrases
 135. Number of Pages of the manuscript (for referee)
 140. Number of Authors
 151. First author's name, affiliation (institution /university) and its postal address
 152. Second author's name, affiliation (institution /university) and its postal address
 153. Third author's name, affiliation (institution /university) and its postal address
- In typing author's names the order should be Last (Family) name, First name, Middle name. In case there are four authors or more, please write their names, affiliations and their postal addresses as items 154, 155. . . If the authors are temporarily studying or teaching in Japan, please type the affiliations (or universities they graduated from) in their own countries.
170. Author's name to whom correspondences should be sent
 180. Author's address of 170
 190. Phone
 195. Fax
 197. E-mail address
200. Please type P or T or Js (see CALL FOR PAPERS (F)).
For the following 201~210 items, authors T and Js are requested to answer. Authors P may skip these items.
201. Do you send your files via e-mail or on diskette? Please type “e-mail” / “diskette” or both.
 202. What kind of TeX; and its version do you use?
Please type AMS-LaTeX(Ver.1.1), AMS-LaTeX(Ver.1.2), LaTeX(old version), LaTeX2e or other TeX including AMS-TeX. (**AMS-TeX files cannot be Js files any more.**)
 203. Please type you platform you are using. Type PC(DOS, WINDOWS), Macintosh(for Textures or others), Unix or others.
 204. If you have used ISMS style file then please type the name of the style file you have used.
 207. Are you using figures in your paper?
If yes, please type `a figure' or `figures', and type also they will be processed in LaTeX or not?
 208. Is your electronic graphics file (if any) is saved in Encapsulated PostScript (EPS) format or in TIFF, PICT, GIF or other standard graphics format?
 209. If you send the above files with attachment, you should send its extension name together. Please type the file name and the extension name.
 210. If you use compress utility of your file, please type ZIP, gzip, tar, tar + gzip, tar + compress, or etc.
 213. Are you a member of ISMS? If yes, type M. If you are not a member, type NM in case you apply for the membership together with an application form, and type NN in case you do not apply for the membership.
 214. Panel (Choose one or more panels out of the 12 panels specified in item 8 of "Membership Application Form" .)
 216. Are you sure that you or your institution will pay the required page charge when this paper is accepted for publication? ; YES or NO.
 217. Does your institution subscribe to SCMJ? : YES or NO.
 218. Signature
 219. Type Abstract of your paper **in Text file**. (If you use TeX file, you should write the kind of TeX as notes.)
- 159, 179, 189. For Japanese Author(s), write 151~158, 170, 180 in Japanese.

Form for Submission (from 2006)

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ABSTRACT	

Call for Academic and Institutional Members

Discounted subscription price: When organizations become the Academic and Institutional Members of the ISMS, they can subscribe our journal *Scientiae Mathematicae Japonicae* at the yearly price of US\$300 (printed version only) or at the yearly price of US\$420 (printed version plus online version).

Invitation of two associate members: We would like to invite two persons from the organizations to the associate members with no membership fees. The two persons will enjoy almost the same privileges as the individual members do including the discount of the page charge. Although the associate members cannot have their own ID Name and Password to read the online version of SCMJ, they can read the online version of SCMJ at their organization.

To apply for the Academic and Institutional Member of ISMS, please use the following application form.

Application for Academic and Institutional Member of ISMS

Subscription of SCMJ Check one of the two.	<input type="checkbox"/> Print (US\$300)	<input type="checkbox"/> Print + Online (US\$420)
University (Institution)		
Department		
Postal Address where SCMJ should be sent		
E-mail address		
Person in charge	Name: Signature:	
Payment Check one of the two.	<input type="checkbox"/> Bank transfer	<input type="checkbox"/> Credit Card (Visa, Master)
Name of Associate Membership	1.	
	2.	

Call for Members
ISMS Membership Dues from 2006

A new category “life member” has been established and can be applied for from 2005. An eligible member may become a life member by making a one-time payment of dues. A member who has been an ISMS member for ten years or more is eligible for a life member. The amounts of dues are : ¥70,000 for the domestic members, US\$ 600 (€480) for the foreign members, and US\$ 500 (€400) for the members in developing countries.

We have reduced the ISMS membership dues since 2001 and copies of the printed journal have not been distributed to the members, free of charge. Instead, we give User Name and Password to each member so that he/she can view or print out the full text of the papers published in SCMJ except papers in the international plaza from our Web site (<http://www.jams.or.jp>).

The Membership Dues for each category is as follows. Applications for the 3-year members can be made only in 2005 and in every three years.

Membership Dues for 2006

Membership	JAPAN	S-JAPAN	Foreign	S-Foreign	Developing
1-year	A1 ¥7,000	SA1 ¥3,500	F1 US\$50 €40	SF1 US\$30 €24	D1 US\$30 €24
3-year	A3 ¥18,000	SA3 ¥9,000	F3 US\$120 €96	SF3 US\$60 €48	D3 US\$70 €56
Life Member	Life ¥70,000	Life ¥70,000	FL US\$600 €480	FL US\$600 €480	DL US\$500 €400

Category D is for those who reside in the countries of Eastern Europe, CIS or developing countries. Category S is for students and for the aged (older than 70). The figure 1 and 3 means a year and 3 years respectively.

Payment Instructions

Payment can be made through a post office or a bank, or by credit card. Members may choose the most convenient way of remittance. Please note that we do not accept payment by bank drafts (checks). For more information, please refer to an invoice.

Methods of Overseas Payment:

Payment can be made through (1) a post office, (2) a bank, (3) by credit card, or (4) UNESCO Coupons.

Authors or members may choose the most convenient way of remittance as are shown below. Please note that **we do not accept payment by bank drafts (checks)**.

(1) Remittance through a post office to our giro account No. 00930-1-11872 or send International Postal Money Order to our postal address (2) Remittance through a bank to our account No. 94103518 at Shinsaibashi Branch of CITIBANK (3) **Payment by credit cards** (AMEX, VISA, MASTER or NICOS), or (4) Payment by UNESCO Coupons.

Methods of Domestic Payment:

Make remittance

(1) to our Post Office Transfer Account - 00930-3-73982 or

(2) to our account No.1565679 at SUMITOMO BANK, Sakai, Osaka, Japan.

All the correspondences concerning subscriptions, back numbers, individual and institutional memberships, should be addressed to the Publications Department, International Society for Mathematical Sciences.

Membership Application Form (from 2006)

To determine what membership category you are eligible for, read "Join ISMS" on the inside of the back cover.

1. Name: Family Name, First Name, Middle Name (in this order)
2. Home Address
3. Name of Firm or Institution affiliation
4. Postal address to which correspondence should be sent
5. e-mail address
6. Telephone Number, Fax Number
7. Membership Category
8. Panel (Please choose one out of the following 12 panels and write the panel number. You could choose one or more.)
 - (e-1) Mathematical Logic, Set Theory, Lattice Theory, Ordered Systems.
 - (e-2) Algebra, Algebraic Geometry, Number Theory, Combinatorics, Cryptology.
 - (e-3) Topology, Geometry, Imaging.
 - (e-4) Real Analysis, Functional Analysis, Complex Functions.
 - (e-5) Differentiation Equations, Integral Equations, Functional Equations.
 - (e-6) Fluid Dynamics, Rheology, Imaging and other Applied Analysis, Control Theory, Numerical Analysis, Simulation.
 - (e-7) Probability, Statistics, Data Mining, Decision theory, Quality Control.
 - (e-8) Game, Finance, Operations Research, Mathematical Economics, Ecology
 - (e-9) Informatics, Computer Sciences.
 - (e-10) Biomathematics, Neuroinformatics, Genome Sciences, Nanoscience.
 - (e-11) Mathematical Education, History of Mathematics.
 - (e-12) Over several fields. (Ex. Fixed Point Theory, Semi-group)
9. Would you like to buy the printed copies of SCMJ, whose prices a year are US\$60(6,000yen) for 1-year-members(A1, D1, S-A1, S-D1) and US\$55(5,500yen) for 4-year-members(A4, D4, S-A4, S-D4)? Type YES or NO.
10. If you apply for an aged member (70 years old or over), please type the year of your birth.
11. If you wish to be a student member, please verify.
12. Is your university (institution) an Academic or Institutional Member of the ISMS? Yes or No.
13. If the answer of 12 is Yes, please answer the following. Are you designated associate

member by your university (institution)?

14. Date
 15. Signature
- For Japanese Applicants, please send two application forms, one in English and the other in Japanese.
-

I wish to enroll as a member of ISMS and will pay to International Society for Mathematical Sciences the annual dues upon presentation of an invoice. Copies of *Mathematica Japonica*, *Scientiae Mathematicae* and *Scientiae Mathematicae Japonicae* received as an ISMS member will be for my personal use and shall not be placed in institutional, university or other libraries or organizations, nor can membership subscriptions be used for library purposes.

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Join ISMS !

ISMS Publications: We published **Mathematica Japonica (M.J.)**, which enjoyed an international reputation, for about sixty years in print and its offshoot **Scientiae Mathematicae (SCM)** both online and in print. In January 2001, the two publications were unified and changed to **Scientiae Mathematicae Japonicae (SCMJ)**, which is the “21st Century New Unified Series of Mathematica Japonica and Scientiae Mathematicae” and published both online and in print. Ahead of this, the online version of SCMJ was first published in September 2000. The number of the annual total pages of the print version has been from 700 to 1,200 pages in six issues since January 1978. The whole number of SCMJ exceeds 230, which is the largest amount in the publications of mathematical sciences in Japan. The features of SCMJ are:

- 1) About 40 eminent professors and researchers of not only Japan but also 15 foreign countries join the Editorial Board. The submitted papers are received directly by the editors and are refereed quickly. The accepted papers are published online with no lead time after compiling or proofreading. SCMJ is reviewed by *Mathematical Review* and *Zentralblatt* from cover to cover.
- 2) SCMJ is distributed to many libraries of the world. The papers in SCMJ are introduced to the relevant research groups for the positive exchanges between researchers.
- 3) The original papers and surveys of distinguished mathematical scientist appear in every issue of SCMJ. The section called “International Plaza” of SCMJ has very interesting expository papers written by the eminent mathematical scientist of the world. Presentations of recent research frontier including award lectures by the winners of the ISMS Prize or Shimizu Prize are made.
- 4) **ISMS Annual Meeting:** Many researchers of ISMS members and non-members gather and take time to make presentations and discussions in their research groups every year.
- 5) The ISMS holds inter-regional videoconferences called **International Videoconference of Mathematical Sciences (IVMS)** via internet. There is no need for the participants to travel abroad.

Privileges to ISMS Members: (1) Free access (**including printing out**) to the online version of SCMJ, (2) Discounted price for the printed version of SCMJ (See **Table 1**), (3) Discounted page charges (See **Table 2**).

Privileges to Institutional Members: (1) Two associate members can be registered, free of charge, from an institution. (2) The discounted page charges (Table 2) are applied to the associate members.

Table 1: Subscription Price

	Individual 1-year mem.	Individual 3-year mem.	Institutional member	List Price
Print / year	¥6,000 US\$60, €48	¥5,500 * US\$55, €44	¥33,000 US\$300, €240	¥45,000 US\$400, €320
Online/year	Free	Free	—	—
Online+Print / year	¥6,000 US\$60, €48	¥5,500 * US\$55, €44	¥45,000 US\$420, €336	¥57,000 US\$520, €416

Postal charge is US\$2 (€1.6) per issue. *In case three-year members make the payment at a time in advance, the price for 3 years is ¥15,000 (US\$150, €120). The authors can buy a copy of the print version at a price of ¥1,200 (US\$12) per issue including postage.

Table 2: Page Charge per printed page

	Individual/Associate Member	Non Member
Paper : P	¥3,850 (US\$35, €28)	¥4,450 (US\$43, €35)
TeX: T	¥2,200 (US\$18, €14)	¥2,800 (US\$26, €21)
ISMS style: Js	¥1,100 (US\$8, €7)	¥1,700 (US\$16, €14)

above

The page charges include 20 offprints.

Table 3: Membership Dues for this year

Categories	Domestic	Overseas	Developing countries
1-year member (1A)	A1: ¥7,000	F1: US\$50, €40	D1: US\$30, €24
3-year member (3A)	A3: ¥18,000	F3: US\$120, €96	D3: US\$70, €56
1-year students or aged (1S)	SA1: ¥3,500	SF1: US\$30, €24	SD1: US\$20, €16
3-year students or aged (3S)	SA3: ¥9,000	SF3: US\$70, €56	SD3: US\$50, €40
Life member* (L)	AL: ¥70,000	FL: US\$600, €480	DL: US\$500, €400

*The members who have been the ISMS members for more than 10 years are eligible for this category. The categories 1S and 3S are for students or persons over 70 years old

