



International Federation of Classification Societies Newsletter

Number 14

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President: Douglas Carroll

Editor: Keiji Yajima

The International Federation of Classification Societies, founded in 1985, is composed of: Associação Portuguesa de Classificação e Análise de Dados, British Classification Society, Classification Society of North America, Gesellschaft für Klassifikation, Japanese Classification Society, Korean Classification Society, Société Francophone de Classification, Società Italiana di Statistica, Association des Sociétés Yougoslaves de Statistique, Vereniging voor Ordinatie en Classificatie and Section of Classification and Data Analysis of the Polish Statistical Society. (Other societies are currently joining.)

The IFCS is a non-profit, non-political scientific organization, the aims of which are to further classification research. Among other activities, the IFCS organises a biennial conference, and supports the Journal of Classification.

From the President IFCS Election

Please allow me to convey my most hearty congratulations to the newly elected officers, and my sincere thanks to the other members of the Executive Committee who have been so helpful to me in the last year. Allan Gordon, who showed me the way while he was President and I Vice-President, and then supported my activities in many ways when we interchanged roles in 1996, provided much highly valued advice and counsel. Keiji Yajima was more than just our chief Publication Officer— he also provided much greatly appreciated advice and help in innumerable matters, especially related to the planning of the Kobe meeting. Jacqueline Meulman, who has been so assiduously holding down **both** the offices of Secretary **and** Treasurer for the last four years must be singled out for special praise. Let me use this occasion as an opportunity to thank Jacqueline profusely for her

invaluable help during my tenure, first as Vice President, and then as President. I could not have gotten done what small things I managed to accomplish without her Herculean efforts in assisting, encouraging, and occasionally **prodding** me to greater or faster activity.

Because of her tremendous efforts on behalf of IFCS, and the very essential nature of some of the efforts she has begun, but which still remain to be completed, I am appointing Jacqueline now (after consultation with Prof. Chikio Hayashi, and, of course, with her, on this matter) as a “Special Presidential Advisor” (SPA), for the remainder of my tenure as IFCS President.

I look forward with keen anticipation to working with Professor Chikio Hayashi, and with all the other officers and members of the IFCS Council and Executive Committee during the coming year.

Douglas Carroll, President
Email: dcarroll@rci.rutgers.edu

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Results of the IFCS elections

In the Federation's elections in December 1996, Chikio Hayashi has been elected Vice-President of the IFCS and Hans Bock and Ludovic Lebart have been elected Additional Members of the Council.

The Executive Committee nominated David Banks for the post of IFCS Secretary, Atsuhiko Hayashi for the post of IFCS Treasurer. Formerly, both offices had been united in the person of Jacqueline Meulman. After counting the ballots, both nominees were elected.

IFCS Executive Committee

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David Banks, Secretary
Email: Banks@stat.cmu.edu
Atsuhiko Hayashi, Treasurer
Email: hayashi@rd.dnc.ac.jp
Keiji Yajima, Publication Officer
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National Organising Committee

E. Aureli	F. Battaglia
A. Bellacicco	S. Bolasco
G. Bove	L. Biggeri
G. Burgio	C. Cecchi
M. Coli	A. Crescimanni
L. D'Ambra	E. D'Arcangelo
F. De Antoni	A. Di Ciaccio
L. Fabbris	M. Fraire
G. Galmacci	G. Gesano
G. M. Giorgi	G. Girone
L. La Tona	G. Latorre
G. Leti	M. Lo Cascio
G. Lovison	G. Lunetta
G. Marliani	A. Mineo
P. Monari	M. Montinaro
A. Mussino	M. G. Ottaviani
F. Pesarin	M. Romanazzi
G. Salinetti	R. Siciliano
B. Simeone	M. Vichi
S. Zani	A. Zuliani

Local Organising Committee

Chairperson

A. Rizzi

Co-chairperson

F. De Antoni

M. Vichi

Committee Members

G. Jona Lasinio

F. Mola

R. Rocci

D. Vicari

E. Vinci

Scientific Program

The program should be of interest to anyone concerned in classification, data analysis and computational issues in the broad sense and in as wide a range of applications as possible. Included in the program will be: Invited Lectures - Invited Papers - Selected Topic Contributed Papers - Posters

TOPICS

(Please classify the paper in one of the following categories)

Classification Theory

- T1. Fuzzy Methods
- T2. Hierarchical Classification
- T3. Non Hierarchical Classification
- T4. Pattern Recognition
- T5. Optimisation Approach in Classification.
- T6. Classification of Multiway Data
- T7. Probabilistic Methods for Clustering
- T8. Consensus and Comparison Theories in Classification

IFCS-98 Sixth Conference of the International federation of Classification Societies July 21 - 24, 1998, ROME, ITALY

Scientific Program Committee

P. Arabie (USA)
H. Bacelar-Nicolau (Portugal)
J. P. Barthélemy (France)
V. Batagelj (Slovenia)
P. G. Bryant (USA)
H. H. Bock (Germany)
J. D. Carroll (USA)
R. Coppi (Italy)
W. Gaul (Germany)
A. D. Gordon (UK)
J. Gower (UK)
C. Hayashi (Japan),
W. J. Heiser (The Netherlands)
K. Jajuga (Poland)
C. Lauro (Italy)
L. Lebart (France)
J. G. Lee (Korea)
J. J. Meulman (The Netherlands)
N. Ohsumi (Japan)
J. P. Rasson (Belgium)
A. Rizzi (chairman) (Italy)

- T9. Spatial Clustering
- T10. Validity of Clustering
- T11. Neural Networks and Classification
- T12. Genetic Algorithms
- T13. Classification with Constraints

Multivariate Data Analysis

- D1. Categorical Data Analysis
- D2. Correspondence Analysis
- D3. Biplots
- D4. Factor Analysis
- D5. Discrimination and Classification
- D6. Visual Treatment in Data Analysis
- D7. Symbolic Data Analysis
- D8. Non Linear Data Analysis

Multway Data Analysis

- M1. Analysis of Multiway Data
- M2. Multilevel Analysis

Proximity Structure Analysis

- P1. Multidimensional Scaling
- P2. Similarities and Dissimilarities
- P3. Unfolding and Other Special Scaling Methods

Software Developments for Classification

- S1. Algorithms for Hierarchical Classification
- S2. Algorithms for non Hierarchical Classification
- S3. Computer Data Visualisation
- S4. Algorithms for Multivariate Data Analysis
- S5. Algorithms for Multiway Data Analysis

Applied Classification and Data Analysis in Social, Economic, Medical, and other Sciences

- A1. Classification of Textual Data
- A2. Data Diagnostics Using Classification Tree
- A3. Data Analysis in Economics
- A4. Data Analysis in Quality Control
- A5. Data Analysis in Environmental Science
- A6. Classification Approaches in Medical Science
- A7. Cognitive Sciences and Classification
- A8. Classification in Biology and Ecology
- A9. Data Analysis in Demography

Software Demonstration and Book Exhibition

There will be a software demonstration and book exhibition of professional vendors in the conference building.

Short Papers and Proceedings of Selected Papers

A book of the proceedings of the Conference will be published by an international publisher and a book of all short papers (maximum 4 pages) will also be published. Any researcher desiring to present a paper to IFCS-98 must submit a short paper (maximum 4 pages) following the guidelines for short papers below. This short paper will

represent an abstract of the paper eventually published in the proceedings.

GUIDELINES FOR SHORT PAPERS

The short paper should be typed, in English, on white paper (A4 format, 21 29.7 cm), one side only, single-spaced, double-justified throughout (including references) with 3.5 cm margins on each side and submitted as a camera-ready paper. Times New Roman 12 points fonts size should be used (28pt=1 cm). Number all pages consecutively with an erasable pencil. The manuscript should contain in this order and on separate lines: **the article title** (18pt, bold, centred) + (1 line space 12pt (1ls)), author(s) name(s) (14pt, centred) and affiliation(s) (12pt, centred) + (1ls), **summary:** (12pt, bold, and normal text) + (1ls), **key words:** (12pt, bold, and normal text) + (2ls). Text should be divided in numbered sections with a title (12pt bold, left alignment). Use 2 lines space between sections and references. Figures and tables should be numbered with Arabic numerals consecutively on the top and titled (12pt italics) and labelled (12pt italics) and inserted in the correct position. Formulas should be typed and numbered consecutively with the number in parentheses on the right side of the page. **References** (12pt bold) + (1ls) should be styled and punctuated in the following manner: surname, initial(s) (year). Title of paper, journal (12pt italics), volume, pages; or: title of book (12pt italics) publisher; or: Title of the paper, in: title of book, (12pt, italics), name of editor(s), pages. Second line of a reference must begin with one tabulation. Please do not use abbreviations. The maximum length of the short paper is 4 pages.

Important Deadlines

Submission of short papers	15 October 1997
Notification to authors	15 November 1997
First program and registration	10 January 1998
Submission of full paper for refereeing	15 January 1998
Final version of full paper	15 April 1998

Social Events

There will be a full program of social events including Welcome Reception, Concert, Dinner and Excursions

CORRESPONDENCE:

IFCS-98

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SIS - Società Italiana di Statistica

Next National Conference of the Classification & Data Analysis group of Società Italiana di Statistica will be held in Pescara 3-4 July 1997.

Important Deadlines

Submission of a short paper	15 April 1997
Notification to Authors	20 May 1997
Registration	10 June 1997

A book of short papers will be published, and also a selected number of papers will be published on the proceedings of the conference.

Please, contacts Vichi Maurizio (Vichi@dmqte.unich.it) for further information on this conference)

<http://www.unich.it/dmqte/dmqte.html>

CSNA - Classification Society of North America

NEW BOARD MEMBERS

CSNA welcomes two new Board members this year, Dr. Olga Cordero-Bra~na of American University in Washington, D.C., and Dr. F. James Rohlf, of SUNY Stony Brook, New York. Complete information concerning all Board members and CSNA activities is now available at CSNA's World Wide Web site:

<http://www.pitt.edu/~csna/>

including detailed information concerning CSNA meetings.

CSNA '97 TO BE HELD IN WASHINGTON, D.C., JUNE 12-15

The 1997 annual meeting of the Classification Society of North America (CSNA) will be held in Washington, D.C., at American University on June 12-15, 1997. Two short courses, one on cluster analysis and the other on multivariate nonparametric regression and neural nets, are planned for Thursday, June 12. A welcoming reception will be held that evening. The regular meeting, including the conference banquet, and regular paper sessions will be scheduled from Friday morning, June 13, until noon on Sunday, June 15.

The plenary speakers will be Rob Tibshirani (University of Toronto) and John Hartigan (Yale University); Joseph Kruskal (Bell Labs) will speak at the banquet.

The conference will include sessions on Environmental Applications, Inference on Phylogenetic Trees, DNA Fingerprinting, Challenges in Information Science, Classification in Public Health Medicine, New Problems in Biomedical Research, Clustering Problems in Marketing, Problems in Classification, and a session for graduate students.

Further information (including details concerning the short courses, conference registration, and travel/lodging arrangements) is available at CSNA's Web Site (URL listed above). The Program Chair is David Banks, Department of Statistics, Carnegie Mellon University, Pittsburgh, PA 15213 USA, telephone (412)-268-2721, fax (412)-268-7828, e-mail banks@stat.cmu.edu and the Conference Chair is Olga Cordero-Bra~na, Department of Mathematics and Statistics, American University, Washington DC, 20016-8050, telephone (202)-885-3130, fax (202)-885-3155, email olgacb@american.edu.

1998 MEETING TO BE JOINT WITH PSYCHOMETRIC SOCIETY

CSNA's 1998 meeting will be held jointly with the Psychometric Society at the University of Illinois at Champaign-Urbana, Illinois, June 17-21, 1998. Further information will be available later this year. Preliminary inquiries may be directed to Dr. Stanley Wassermann (stanwass@uiuc.edu).

Peter Bryant, CSNA President

Email:pbryant@castle.cudenver.edu

CLAD - Associação Portuguesa de Classificação e Análise de Dados

(1)JOCLAD-96:The 4th annual meeting of the CLAD, JOCLAD-96, was held on December 12-14, 1996 at the University of Lisbon, LEAD/EPCEUL, Laboratory of Statistics and Data Analysis, Faculty of Psychology and Education, University of Lisbon(CLAD is located at the LEAD). F. Costa Nicolau, Dep. of Mathematics, Faculty of Sciences and Technology, New University of Lisbon, H. Bacelar-Nicolau, LEAD/FPCEUL and Col. have organised the meeting. The National Institute of Research and Technology(JNICT), the Institute of Innovation in Education and the French Embassy sponsored the JOCLAD-96.

Main topics were:Classification and Discrimination, Symbolic Data Analysis, Probabilistic Models in Classification, Textual Data Analysis, Computers and Multimedia, Pattern Recognition and Teaching Statistics and Data Analysis. The goal was standing on the increase of cooperation between theory and practice with development of interdisciplinary and users' teaching aspects. like in the preceding JOCLAD. Applications specially covered Social and Behavioral Sciences, Biometry, Biopharmacology, Environmental Sciences, Text Treatment, Banking Insurance, Marketing and Software Development. Official languages were Portuguese, French and English, as usual.

Invited speakers were:Bernard VanCutsem(Univ. Grenoble, France);Boris Mirkin(Rutgers Univ., USA);Ludovic

Lebart(ENST/Telecom, Paris, France);Georges LeCalvé and Regis Gras(Univ. Rennes, France);Michel Lejeune and Luan Jaupi(CNAM, Paris, France);Dietrich Albert(Univ. Graz, Austria);F. Carvalho(Univ. Recife, Brazil);W.Gaul, President of the GfKI(Univ. Karlsruhe, Germany);R. Sabatier(Univ. Montpellier, France);H. Bacelar-Nicolau and G. Soromenho(Univ. Lisbon);F. C. Nicolau(New Univ. Lisbon);P. Gomes, F. Calheiros and P. Brito(Univ. Porto).

(2)An Associate Membership Memorandum, favouring exchanging of information and scientific cooperation between societies was signed by both the Presidents of the CLAD and the GfKI, H. Bacelar-Nicolau and W. Gaul, during the JOCLAD-96.

(3)Two short courses on Textual Data Analysis-Software SPADT, by L. Lebart and Statistical Software STATA, by A. Timberlake, have preceded the JOCLAD-96 on 10-11 December. Another course on Response Time Modelling was held on March 19-21 and 24-26 1997, at the LEAD, presented by Eric Maris from the Univ. Nijmegen, Holland. The course was included in a SOCRATES/ERASMUS Program on Mathematical Psychology.

(4)The CLAD will be represented as invited "Sister Society" in the next Meeting of the International Statistical Institute to be held at Istanbul, Turkey, 18-27 August 1997:H.Bacelar-Nicolau has been asked to organise the invited paper meeting entitled "Classification of variables vs. classification of subjects" on behalf of the Associação Portuguesa de Classificação e Análise de Dados. Invited authors are Allan D. Gordon(Univ. St. Andrews, Scotland), Gilbert Saporta(CNAM, Paris, France), Ludovic Lebart and H. Bacelar-Nicolau. Invited discussants are Hans Hermann Bock(Univ. Aachen,Germany), Ant6nio Dorival Campos(Univ. Sao Paulo, Brazil) and Fernando C. Nicolau.

(5)The next annual meeting of the CLAD, JOCLAD-97, will be held on December 4-6, 1997 at Porto. Interested people may contact the CLAD Secretariat(LEAD, Faculdade de Psicologia e C. Educaç3o, Universidade de Lisboa, Alameda da Universidade, 1600 Lisboa, Portugal. TEL:+351 1 7934554, Fax:+351 1 7933408, E-mail:ulfphelb@cc.fc.ul.pt

(6)The issue Number 3 of CLAD Bulletin was published in February 1997.

Helena Bacelar-Nicolau, CLAD President
Tel:+351 1 793 4554
Fax:+351 1 793 3408

SKAD - Section on Classification and Data Analysis of Polish Statistical Society

Section on Classification and Data Analysis of PTS (SKAD) held its annual conference in Ustron, on October 23-25, 1996. The invited lecture Validation in Cluster Analysis was given by Prof. Allan D. Gordon (United Kingdom). During the conference 29 papers were presented. The list of papers was presented in IFCS Newsletter 13.

During the conference the regular meeting of the members took place. The Board of the section gave the summary of their work in the last year. Then the elections to the Board took place.

The following persons were elected for the period of January 1, 1997 - December 31, 1998:

1. Krzysztof Jajuga - chairman (Wroclaw University of Economics);
2. Michal Wozniak - vice-chairman (Cracow Academy of Economics);
3. Marek Walesiak - secretary (Wroclaw Academy of Economics);
4. Kazimierz Zajac - member (Cracow Academy of Economics);
5. Zdzislaw Hellwig - member (Wroclaw University of Economics);
6. Eugeniusz Gatnar - member (Katowice Academy of Economics).

Krzysztof Jajuga, SKAD President
Email: jajuga@manager.ae.wroc.pl



SFC - Société Francophone de Classification

1. The fifth annual SFC meeting will take place in Lyon (France) on September 17, 18, 19, 1997; it is organised by the team ERIC (Equipe de Recherche en Ingenierie des Connaissances), University Lumiere Lyon 2.

SFC invites specially all members of IFCS Societies to attend that meeting; it is the 20th anniversary of the SFC!!!

The programme chair is Prof. D. A. ZIGHED.

Authors who intend to present a talk are requested to submit an abstract (minimum two pages -maximum four pages) (on the first page: the name and address of the author(s), a summary and a list of keywords) to the organiser, not later than May 1, 1997.

The Simon Regnier prize will be awarded during the meeting. The general assembly of the SFC will be held during the meeting.

Interested persons will obtain further informations (conference program, Simon Regnier prize, ...) if they contact Secretary of the Fifth SFC Meeting Marc SEBBAN E.R.I.C.-Lyon, Batiment L Universite Lumiere Lyon 2 5 avenue Pierre Mendes France F 69676 BRON Cedex FRANCE

tel: +33 4 78 77 23 76 or +33 4 78 77 24 14 fax: +33 4 78 77 23 75 email: Abdelkader.Zighed@univ-lyon2.fr or Marc.Sebban@univ-lyon2.fr

The SFC meeting home page is:

<http://chirouble.univ-lyon2.fr/~sfc/sfc.html>

2. Informations on the SFC, including membership informations, previous SFC Bulletins, SFC meeting announcements, ... are available on the World Wide Web. The SFC home page URL is:

<http://www.fundp.ac.be/sciences/math/sfc/>

3. The issue number 8 of the "SFC Bulletin" was published in april 1997.

Andre HARDY, SFC Secretary

Email: aha@math.fundp.ac.be

VOC - Dutch/Flemish Classification Society

The meeting was held on November 22 in Schiedam, at the Rijnmond Environmental Agency. The keynote speaker was professor Wojtek Krzanowski of Exeter University, who presented an interesting lecture on "Some simple projections for multivariate selection problems". Four other speakers appeared in the program. Alfred Stein of Wageningen University presented the lecture "Fuzzy classification for environmental pollution". Sijmen de Jong of Unilever Research in Vlaardingem talked about "Partial least squares regression". Patrick Groenen of Leiden University talked about (new developments) in biplots. Henk Kiers of Groningen University (as a stand-in for Age Smilde of Amsterdam University) presented "Calibration with Restricted Tucker Models". Between 30 and 40 people were present and there were lively discussions.

The next meeting will be on April 25 at Cito in Arnhem.

Paul Eilers, VOC Secretary

Email: eil@dcmr.nl



GfKI - Gesellschaft für Klassifikation

The 21st Annual Conference of the German Classification Society took place on March 12 - 14, 1997. It was a successful event, with local organizer Prof. Dr. Ingo Balderjahn and Prof. Dr. Rudolf Mathar as the chairmen of the scientific program committee.

At an exceptional conference site, the 'Neues Palais' in Potsdam, an interesting and versatile program was presented. Actual topics were represented in 16 invited plenary and semiplenary sessions, as well as in 78 talks in more specialized sections. Special emphasis was placed on the general topic 'Data Highways and Information Flooding as a Challenge for Classification and Data Analysis', which in fact stressed the interdisciplinary character of the conference. A rough classification of the presented talks is as follows.

- * Sections related to Computer Science
 - Classification in Speech and Pattern Recognition
 - Neural Networks
 - Knowledge and Databases
 - Hypertext und Hyperdocuments
- * Foundations in
 - Data Analysis and Computational Statistics
 - Classification, Clustering and Discrimination
 - Mathematical and Stochastic Methods
 - Visualization and Geometrical Structures
- * Applied Topics, such as
 - Psychology and Social Sciences
 - Statistics und Econometry
 - Marketing

Of broad interest were the plenary lectures of Joop Hox on 'Multilevel Models: When and Why?', Teuvo Kohonen on 'Self Organizing Maps of Document Collections', Hermann Maurer on 'WWW Servers: Applications, Techniques and New Phenomena', and Hermann Ney on 'Stochastic Modeling for Automatic Speech Recognition'. Supplementary tutorials were given on 'Statistical Computing on the Net' (W. Härdle et al.), 'Object-Oriented Software Design for Pattern Recognition' (J. Hornegger) and 'Databases in Archaeology' (T. Madsen). The social program offered a guided tour through the exceptional Park of Sanssouci and a visit to the castle.

A remarkable number of international participants attended the meeting. Nearly all European countries were represented. The Dutch Classification Society even organized a whole session on data analysis. A group of Japanese scientists took the burden of travelling the large distance to Potsdam and contributed important recent developments. The USA were also represented by a number of participants.

The Annual Conference 1997 has emphasized the intention of the German Classification Society to form a unifying forum for interdisciplinary work ranging from the foundations to manifold applications of classification methods. Presently, the proceedings volume is being prepared by the editors I. Balderjahn, R. Mathar and M. Schader. The most valuable contributions will be published in this volume after a peer reviewing process. It is expected that the proceedings will appear at Springer-Verlag by the end of 1997.

Wolfgang Gaul, GfKI President
Email: gaul@etu.wiwi.uni-karlsruhe.de

ISI

51st Session of the International Statistical Institute

Istanbul 18-26 August 1997

August 25(Monday) Morning Topic 76:

Classification of Variables vs. Classification of Subjects

Organizer: Helena Bacelar-Nicolau(Portugal)

Authors: 1.Allan Gordon(UK):External validation in cluster analysis 2.Ludovic Lebart(France) Classification of variables and subjects: The case of textual data 3.Gilbert Saporta(France) Problems posed by comparison of classifications in the different inquiries 4.H.Bacela-Nicolau(Portugal) Classification of variables vs. classification of subjects in binary data with probabilistic approach Discussants:Hans Herman Bock(Germany), Fernando C. Nicolau(Portugal), Antonio Dorival Campos(Brazil)

August 20(Wednesday) Morning Topic 79:

Classification and Clustering

Organizer: Hans H. Bock(Germany)

Authors: 1.Yoshiharu Sato(Japan) Additive clustering models for similarity data 2.Paul de Boeck(Belgium) Deterministic and probabilistic feature-based classification models for binary dominance data 3.Pierre Hansen(Canada) Computational strategies and optimization algorithms in the cluster analysis 5.Wolfgang Gaul(Germany) Advances in cluster analysis and applications in economics Discussant:A.D. Gordon(Scotland)

COMPSTAT'98 Bristol 24-28 August, 1998

Deadlines: Submission of abstracts:10th October 1997 Notification to authors:28th November 1997 Contributed papers for refereeing:20th February 1998 Final versions of communications and posters:1st May 1998 Up to date information is maintained on the WWW at: <http://www.stats.bris.ac.uk/COMPSTAT/> from which the above information is extracted. To be included on the mailing list please mail compstat-98@bristol.ac.uk or write to:

COMPSTAT'98

Roger Payne

Statistica Department IACR-Rothamstead Harpenden Hertfordshire, AL5 2JQ, UK

JCS - Japanese Classification Society


The annual research meeting of JCS was held in March 27, 1997 at the Institute of Statistical Mathematics. Speakers and presentations were as follows:

- 1)Daisuke Asaki and Keiji Yajima:Examination on the Company Ratings
- 2)Hirokazu Inaba and Keiji Yajima: Post Office Industrial Insurance in Japan
- 3)Ueda Shioich:Some Implementation of the Box Plot
- 4)Takao Ishizuka:A Consideration on the Data Mining from Text-type Data Base
- 5)Tairai Mino:Paired Comparison Designs Accomodating Ties
- 6)Chikio Hayashi:Some Statistical Methods in Categorical Data Analysis with a Heuristic Example
- 7)Chiyuki Shiota:Mining Customer Data,Invited lecture
- 8)Hideaki Watanabe & Tasaki Takenobu:Inductive View and Mining one in Data Science,Invited lecture
- 9)Masaaki Tsujitani and Takashi Koshimizu:Nonlinear Discriminant Analysis Using Feedforward Neural Networks
- 10)Shinobu Tatsunami, Rie Kuwabara, Nagasumi Yago, Jun-ich Mimaya, Kaneo Yamada, Mika Sato & Yoshiharu Sato:Classification of changes in CD4+ and CD8+ numbers by 3-way data clustering
- 11)Mitsuhiro Tsuji and Masashi Goto:Regional Cluster Structural Analysis on University enrollment flow data
- 12)Tatsuo Otsu:Automatic Classification of Equivalent Path Models

Atsuhiro Hayashi , JCS Correspondent
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IFCS - 98
JULY 21/24 - 1998

INTERNATIONAL CONFERENCE
UNIVERSITA' "LA SAPIENZA" DI ROMA



**DATA SCIENCE,
CLASSIFICATION AND
RELATED METHODS**

SIXTH CONFERENCE
OF THE INTERNATIONAL FEDERATION
OF CLASSIFICATION SOCIETIES



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IFCS Newsletter Home page:

<http://www.ms.kuki.sut.ac.jp/KMSLab/yajima/IFCS-newsletter/>

HOW TO ACCESS

To access IFCS Newsletter, it is needed to install Acrobatreader, with may be downloaded from the home page of Adobe Inc.The address:
<ftp://ftp.adobe.com/pub/adobe/acrobatreader>

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