

Société Francophone de Classification

(1) The new Board of Directors of the SFC is as follows:

President: J.P. Barthélemy (TELECOM - Bretagne - France)
(Vice-President:1993,
President: 1993-1994,
Vice-President: 1995)

Vice-president: E. Diday (Lise-Ceremade;
Université Paris 9, Paris)
(President: 1992-1993;
Vice-President: 1994)

Secretary: A. Hardy (F.U.N.D.P., Namur,
Belgique) (1994-1995)

Treasurer: O. Hudry (E.N.S.T. Paris)(1994-
1995)

Editor of the "Bulletin de la SFC": P. Kunt (Télécom,
Bretagne, Brest) (1994-1995)

(2) The second meeting of the SFC will take place in Tours (France) on September 12-13, 1994; it is organised by the SFC and the Laboratory of Informatics of the Engineering School in Informatics for Industry of Tours.

For information, contact J.P. Asselin de Beauville, E3I, 64 avenue J. Portalis, Technopole de Tours, B.P. 4, F - 37913 Tours Cedex 9, France. Tel.: (33)(47) 36 14 14; fax: (33)(47) 36 14 22.

A. Hardy, ahardy@cc.fundp.ac.be

A message from the outgoing Editor, Fionn Murtagh.

Following four years, and eight issues, of the IFCS Newsletter, it is time to retire. Plenty of other tasks of an administrative nature will fill the void!

It is a pleasure to thank my contact points in the various societies of the IFCS, and all contributors to this Newsletter, for their support and inputs over the past four years.

I wish Professor Keiji Yajima the very best in taking up the Editorship.

The deadline for Issue Number 9 of the IFCS Newsletter is October 1, 1994. The new editor's contact information is as follows:

IFCS Publication Officer:

Keiji Yajima

School of Management

Science University of Tokyo

Kuki-shi, Saitama 346 Japan

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Email: yajima@ms.kuki.sut.ac.jp

Association of Yugoslav Statistical Societies - Yugoslav Classification Section

Dr Srdan Bogosavljevic, Federal Statistical Office, Belgrade, sent a copy of the proceedings of the May Meeting '93 of the Classification Section of the Yugoslav Statistical Societies. Entitled Zbornik Radova 6 i 7, it comprises 23 papers, in 264 pages. The papers are for the most part written in Serbian, with English abstracts. Topics treated include sociological, criminological, economic and electoral studies; and methodological contributions related to factor analysis and taxonomic methods.

The sentiments expressed by Richard were not to be. He passed away on December 23, 1993.

Departures

Sylvie Soukup, known with the name Sylvie Stépan to those who studied or otherwise came to the laboratory of Professor J.-P. Benzécri at the Université Pierre-et-Marie-Curie, Paris 6, died suddenly following an accident in November 1993. After a short period in Nancy, she had been with the Centre d'Analyse et de Mathématique Sociale in Marseilles. Sylvie was a participant at IFCS'93 in Paris in September 1993.

An email message from **Richard Dubes** on May 26, 1993 in regard to the Classification Society of North America Annual Meeting, read:

Colleagues:

Regretfully, I will not be able to attend CSNA 93. I am in the midst of being treated for a recurrence of a previous medical problem and cannot travel. I always enjoy the annual meeting, especially seeing all of you. I plan to be at CSNA 94, which I hope will be in Houston.

My treatment will last until late fall, 1993. I will then return to East Lansing from my extended sabbatical. I plan to carry out my duties as representative to IFCS. Medical problems or not, I would not have been able to attend IFCS 93, as I announced last year.

I am sure CSNA 93 will be a great success and look forward to seeing all of you the following year.

Richard

Gesellschaft für Klassifikation

The 18th Annual Meeting of the GfKl was held at the Carl von Ossietzky University, Oldenburg, on 9-11 March 1994. The local organisers were Prof. Dr. Dietmar Pfeifer and Ltd. Bibl. Dir. Hermann Havekost.

The Program Committee consisted of W. Gaul (Karlsruhe), H.-H. Bock (Aachen), L. Fahrmeir (Munich), B. Ganter (Dresden), H. Goebel (Salzburg), J. Hansohm (Essen), H. Havekost (Oldenburg), D. Pfeifer (Oldenburg) and M. Schader (Mannheim).

The attendance of around 300 enjoyed a range of Tutorials and Workshops on Tuesday 8 March; followed by the Conference in the following three days. There were around 100 presentations, including around 20 invited talks by speakers from elsewhere in Europe, the US and Japan.

Upcoming meetings:

Workshop of the Working Group on Information Systems (AG-IS) on "Semantic Information Retrieval", 27-29 September 1994. Information: G. Rahmsdorf, IBM Deutschland Informationssysteme GmH, Wissenschaftliches Zentrum, Vangerowstr. 18, 69115 Heidelberg. Tel: 06221/594272. Or: M. Herfurth, IZ Sozialwissenschaften, Lennstr. 30, 53113 Bonn. Tel: 0228/2281-154.

Various Events

STAT'expo, April 11-13, 1995

A symposium/fair and a conference devoted to the presentation of the best tools related to data and statistics.

Preliminary invited presentations: Surveys and polls; statistical and geographical information systems; statistical tools for quality; ISO-9000 implementation, normalization, certification of tools; business data and statistics tools; agro-industrial data and tools; biopharmaceutical data and tools; education tools for data users in industry and services; usage of data and statistics through the media.

Conference chairs:

M. Jambu,
National Center for Telecommunications Research, France.
C. Perruchet, UTAC Automobile Union, France.

Location: Cité des Sciences et de l'Industrie, Paris.

Information:

Data Services International, c/o STAT'expo
41 rue Ybry
F-92522 Neuilly sur Seine, France
Tel: +33 1 46709868
Fax: +33 1 46709780

or

SCITECH
c/o STAT'expo
Baliwick Court Building
2231 N. Clybourn Avenue
Chicago, IL 60614-3011, USA
Tel: (312) 472-0444
Fax: (312) 472-0472

Analysis of Categorical Data by Dual Scaling

Dates: Monday, May 30, 1994 (9:00-4:00),
Tuesday, May 31, 1994 (9:00-3:00)

Place: The Ontario Institute for Studies in Education
(OISE), 252 Bloor Street West, Toronto, Ontario,
Canada M5S 1V6

Topics: An Introduction to Dual Scaling/Correspondence Analysis

- (1) Categorical Data and Quantification...necessary basics
- (2) Multidimensional Analysis and Interpretation
- (3) Working Knowledge through Illustrative Examples

Fee: \$125 Canadian (\$100 U.S Regular, \$30 Canadian (\$25 U.S.) Full-time Students with ID. The fee does not include the text book: "Elements of Dual Scaling: An Introduction to Practical Data Analysis" Hillsdale, NJ: Lawrence Erlbaum, 1994. (The book will be available at the workshop at a special discount price unless you already have one).

Staff: Shizuhiko Nishisato (Professor and workshop leader)
Merlin W. Wahlstrom (Professor & Chair, Guest Speaker: "Applications of Dual Scaling: A User's Perspective")
Graduate students (workshop assistants).

Workshop: Lectures with many examples, and hands-on experience with data analysis. No prior knowledge is assumed.

Apply to: S. Nishisato, OISE (see the mailing address above; email snishisato@oise.on.ca; fax (416) 926-4725; telephone (416) 923-6641, extension 2696), with (1) your name, (2) affiliation and title, (3) mailing address (4) telephone number (and email address and fax number, if available), and (5) cheque for the tuition.

Thesis Received

Matrix Approximation in Multivariate Statistics (in German)

Renate Meyer
Institut für Medizinische Informatik und Biometrie
Technische Hochschule Aachen
Email: renete@tolkien.imib.rwth-aachen.de

Published by Verlag der Augustinus Buchhandlung, Aachen, in the "Aachener Beiträge zur Mathematik" series, 1993.

The theme is that of matrix approximation problems in various multivariate statistical methods, especially in multi-dimensional scaling. Chapters include: "Invariant preorders and monotonic functions", and "Algorithmic aspects of MDS".

cluster analysis, multidimensional scaling and related methods of exploratory data analysis and their use in applications. The programs for previous meetings can be found in the Journal of Classification. Because of the informal nature of the meeting, speakers often present research that is currently in progress. In addition, software demonstrations will be offered as part of an afternoon session.

Information on registration will be sent to all CSNA members. Others who wish to request information should contact: Dennis A. Johnston, Department of Biomathematics, U.T. M.D. Anderson Cancer Center, 1515 Holcombe, Houston, TX 77030, USA. Tel: +1 (713) 792-2617, fax: +1 (713) 792-4262, email: csna94@odin.mda.uth.tmc.edu

Local support for the meeting will be provided by the Department of Biomathematics, U.T.M.D. Anderson Cancer Center and by the Department of Statistics at Rice University.

The Texas Medical Center is an urban campus with five major hospitals, two medical schools, and other medical facilities. It is near several museums, Rice University, and Herman Park with zoo, science museum, Millar Outdoor Theater and other outdoor amenities. Houston is also the home of Johnson Space Center and Space Center Houston as well as the Astrodome, the Astros baseball team, and Astroworld Amusement Park.

CSNA Officers 1994

Officers	Term until
Michael P. Windham, President	1 Jan 1996
Herman P. Friedman, Past President	1 Jan 1996
Peter Bryant, President. Elect	1 Jan 1996
Stanley Wasserman, Secretary/Treasurer	1 Jan 1995

Directors

Joseph B. Kruskal	1 Jan 1995
Fionn Murtagh	1 Jan 1995
Stephen C. Hirtle	1 Jan 1996
Stanley Sclove	1 Jan 1996
Douglas Carroll	1 Jan 1997
Larry Hubert	1 Jan 1997
Phipps Arabie, Editor Director, ex off.	
F. "Buck" McMorris Editor Director, ex. off.	

Representatives to IFCS Council

Pierre Legendre	1 Jan 1998
Stephen Hirtle	1 Jan 1996

Editors

Phipps Arabie	Journal of Classification
F. R. McMorris	CSNA Newsletter
Fionn Murtagh	CSNA Service

JCS - Japanese Classification Society

* Takao Ishizuka, "Analysis of questionnaire data by a combined analytic hierarchy process and automatic iteration detector technique".

* Nagatomo Nakamura, Sadanori Konishi, Noboru Ohsumi, "Classification of remotely sensed images using finite mixture distribution models".

* Mariko Murata, Yasuma Baba, "Classification by using a rank graph".

* Keiji Yajima, "Consideration on examination permitted to bring reference material".

* Hideaki Watanabe, Yoshihiro Matsubara, Masashi Goto, "Performance and interpretation of four procedures, automatic interaction detection, classification and regression tree, multivariate adaptive regression spline and automatic binary logistic estimation".

* Miyuki Takahashi, Noboru Ohsumi, "A hierarchical clustering method based on reducibility property and reciprocal nearest neighbors".

* Wang Jie, Kazuaki Kishida, Sachiko Matsui, "Determination of core journals in social sciences ranking by a number of articles and citations".

* Sumimasa Ohtsuka, Kazunobu Imamura, Fumiya Ohmori, Yasuhiro Wada, Yoshinobu Shibasaki, Noboru Ohsumi, "Evaluation of root resorption in cleft lips and palate patients who have undergone orthodontic treatment".

Keiji Yajima, Science University of Tokyo
yajima@ms.kuki.sut.ac.jp

Kraków);
5. Zdzisław Hellwig - Member (Academy of Economics in Wrocław).

It has been decided that the Section will hold its yearly conferences (as a rule in the Fall), with the possible participation of foreign professors.

Krzysztof Jajuga, Academy of Economics, ul. Komandorska 118/120, 53-345 Wrocław, Poland. Email: jajuga@plwrae51

BCS - British Classification Society

A meeting was held at the DRA in Malvern on Wednesday 20th October 1993 on "Contextual methods in classification". The meeting was introduced by R. Glendinning and the following four talks were given:

Martin Russell (DRA, Malvern) - Speech Recognition.
S. Protheroe (King's College, London) - The Use of Context in the Determination of Optical Flow.
Andrew Carothers (MRC Human Genetics Unit, Edinburgh) - Classification of Human Chromosomes.
Edwin Hancock (University of York) - Hierarchical Relaxation.

A meeting was held at Birkbeck College, London jointly with the General Applications Section of the Royal Statistical Society on Tuesday 15th March 1994 on "Unresolved problems and possible future developments in statistical methods of classification and clustering". The following two talks were given:

A.D. Gordon (University of St. Andrews) - Stages in a Numerical Classification.
H.H. Bock (Inst. for Statistics, University of Aachen) - Deterministic and Stochastic models for Clustering: Methods and Open Problems.

Both meetings were well attended and lively discussions followed. The Summer meeting and AGM will take place at the Institute of Zoology, Regent's Park London. There will be a visit to the Institute following which John Gower will give a talk entitled "A Biometrician in Systematics". Further details will be circulated later to people on the BCS address list and others expressing an interest. An early indication of numbers expected would be helpful for the Institute of Zoology.

Classification Society of North America

As CSNA begins its twenty sixth year, we invite you all to our annual meeting in Houston Texas this June. More details on the meeting can be found elsewhere in this issue.

By unanimous vote of the Board of Directors of CSNA, this year's meeting is dedicated to the memory of Richard C. Dubes. Richard passed away on December 23, 1993 after a long, but courageously fought battle with cancer. At the time, he was serving the Society as Past-President of CSNA and Representative to the IFCS Council. Richard was President of CSNA in 1990-91, and contributed to our Society in many ways for many years. He was a fine scientist, author of many papers and books, which many of you know well and depend on. Many of us were fortunate to know him as a friend. He is missed.

Michael P. Windham, President

Classification Society of North America - Numerical Taxonomy Group: 1994 Annual Meeting, Twenty-sixth Anniversary of the Society June 16—19, 1994, Houston, TX USA

The 1994 annual meeting of the CSNA will be held at the Hilton Plaza Hotel in the Texas Medical Center starting Thursday evening, June 16 and continuing until Saturday afternoon, June 18. We will be meeting jointly with the Numerical Taxonomy Group which will meet June 18 and 19. The purpose of the annual meeting is to provide a forum for presentation and cross-disciplinary discussion of data-oriented approaches related to classification and understanding of complex data structures. This meeting marks the twenty-sixth anniversary of the CSNA. Invited sessions are now being planned on acceptability criteria for clustering, neural networks, density estimation and graphical methods, medical applications, and space applications as well as joint sessions with the Numerical Taxonomy Group.

The Numerical Taxonomy Group plans a special session on "Recent advances in the methodology of molecular phylogenetics," organized by Wen-Hsiung Li. Other speakers include Y.-X. Fu, D. Sankoff and M. Steel. CSNA is planning a panel discussion on "Problems in Classification and Clustering" with participation by Doug Carroll, Herman Friedman, Anil Jain, Robert Sokal and Mike Windham.

The meeting will be preceded by optional short courses which are under consideration at this time.

As in the past, there will be invited and contributed papers by CSNA members, non-members and students in the areas of

Clustered Variables in PARAFAC (Wim P. Krijnen; University at Leiden).

The 1993 Fall meeting on November 18 was organised around two themes, viz. real-life classifications and beer, and was held at the Netherlands' greatest brewer, Heineken at Zoeterwoude. The afternoon was dedicated to classification of beer data collected by P. Crombecq and included contributions by Caspar Looman and Onno van Tongeren, both Officers of the VOC. The morning programme was as follows:

An Application of Latent-Response Models to Psychiatric Classification (Eric Maris; University of Nijmegen);

Everyday Classifications (Bart Bakker; Central Bureau of Statistics);

Animal Taxonomy (Theodoor Heijerman; University of Wageningen);

Clusters of Uncorrelated Characteristics: a Problem when Classifying Snail Shells of Albinaria (Gastropoda: Clausiliidae) according to Overall Differences in Shape (G.D.E. Povel; University at Leiden);

Differences between Classification Methods with Respect to Onions and Related Species (L.W.D. van Raamsdonk; CPRO).

The 1994 Spring meeting will be hosted by OASIS, Nieuwegein, on April 7. The central theme is Geographical Information Systems (GIS) and classification.

The 1994 Fall meeting is a very special one as the VOC is celebrating its first jubilee and thus its fifth birthday. The meeting will take place in a convent on two consecutive days in November (10 and 11). The catch-phrase of the meeting will be "No classification without discrimination" and the central theme of the programme is obviously going to be discriminant analysis. David Hand (Open University, England) will give one of the keynote lectures.

Section on Classification and Data Analysis of Polish Statistical Society

The Section was established in September 1989. Most of its members were the statisticians from Academy of Economics in Kraków and Academy of Economics in Wrocław.

Currently more than 40 statisticians are the members of the Section. The main area of research is: clustering methods and their applications, particularly in economic studies.

On October 14-15 1993 the Section organized the conference "Taxonomy: the theory and applications". The following papers were presented during the conference:

1. Tadeusz Borys - The applications of the methods of taxonomy.
2. Zdzisław Hellwig - Taxonomic methods in the construction of economic strategies.
3. Kazimierz Zajac, Michał Wozniak - The differences between provinces of Poland with respect to socio-economic development.
4. Krzysztof Jajuga - The general concept of classification methods.
5. Danuta Strahl - The application of the concept of alpha-similarity to the formulation of economic structural transformation strategy.
6. Tadeusz Grabinski - The application of expert method to the regionalization of Poland.
7. Mieczysław Sobczyk - The spatial distribution of air pollution in Poland.
8. Elzbieta Sobczak - The studies of relationships between economic structure and the level of development.
9. Marek Walesiak - Similarity measures from the point of view of measurement scales.
10. Andrzej Bak - The generation of random data for the optimization of the choice of multivariate statistical analysis.
11. Józef Dziechciarz, Grzegorz Kowalewski - On some transformations of data.
12. Juliusz Siedlecki, Urszula Siedlecka - Taxonomic analysis of the living standards in the provinces of Poland.

During this conference the elections to the Board of the section took place. Currently the Board consists of the following persons:

1. Krzysztof Jajuga - Chairman (Academy of Economics in Wrocław);
2. Michał Wozniak - Vice-chairman (Academy of Economics in Kraków);
3. Marek Walesiak - Secretary (Academy of Economics in Wrocław, Jelenia Góra campus);
4. Kazimierz Zajac - Member (Academy of Economics in

IFCS-96: Fifth Conference of the International Federation of Classification Societies - "Data Science, Classification and Re- lated Methods"

IFCS-96 is the fifth in a series of biennial conferences organized by the International Federation of Classification Societies. Previous conferences were held in Aachen, FRG (1987), Charlottesville, Virginia USA (1989), Edinburgh, UK (1991) and Paris, France (1993). IFCS-96 will be held from March 27 to 30, 1996 in Japan. The meeting will be located at the "International Conference Center Kobe" in Kobe. Kobe is a large city favorably situated in an area of western Japan known as the "Kansai district" and is near well-known cities such as Osaka, Kyoto and Nara.

The main theme of this meeting is *Data Science, Classification, and Related Methods*. The term "Classification" will be interpreted very broadly at IFCS-96, and should be taken to include statistical methods and related topics in data science. We expect contributions from various areas of data and statistical science, including mathematical and methodological developments, as well as practical research, case studies and applications in cross-disciplinary domains. In particular, data science always uses concepts to elaborate interpretations of given datasets. Therefore, a formal treatment of datasets has to include some formal understandings of fundamental concepts in data analysis. Rich experience of data science has, therefore, revealed a great variety of applications in data analysis. We hope to observe a good balance between theoretical work and applications and domains relating to them. From this point of view, both theoretical and applied subjects will be widely covered.

Topics

Both invited and contributed sessions will be organized to cover a wide range of topics as listed below. More detailed announcements will be sent to each society belonging to the IFCS at a later date.

Invited Sessions

- Classification and cognitive sciences
- Consensus theories in classification
- Data analysis in quality control
- Environmental data analysis and classification
- Fuzzy methods and probabilistic models for clustering
- Genetic algorithms
- Intelligent data analysis
- Learning approach in data analysis

- Mathematical programming approach in classification
- Multidimensional scaling
- Neural network and classification
- Non-linear data analysis
- Quantification methods and correspondence analysis
- Robust and diagnostic techniques in statistical methods
- Spatial data analysis
- Visual treatments in data analysis

Sessions for Contributed Papers

In addition to the invited sessions listed above, there will also be sessions for contributed papers on the following data science and classification categories: theory and methodology, informatics, applications and related fields, and other topics.

Chairperson
IFCS-96 Local Organizing Committee (LOC)
Prof. Noboru Ohsumi
The Institute of Statistical Mathematics (ISM)
4-6-7, Minami-Azabu, Minato-ku, Tokyo 106, Japan
Facsimile: +81-3-3443-4019

VOC - Dutch/Flemish Classification Society

In 1993 the VOC organised two meetings. The Spring meeting was held on April 29 at OP&P in Utrecht. The keynote paper was presented by Boris G. Mirkin (Moscow, Paris) on Correspondence-wise Clustering for Contingency Tables. The programme further included:

Time-intensity Studies (Garnt Dijksterhuis, Els van den Broek, Margo Flipsen and Pieter Punter; Bureau OP&P);

Assessing Utilities by Means of Conjoint Measurement: An Application in Medical Decision Analysis (Arne Maas; Unilever Research Laboratory);

Using the Log Transformation in Factor Analysis Techniques (Jan Smit; Smit Consult);

A Three-way Reading of Tea-leaves (Pieter M. Kroonenberg; University at Leiden);

Possible Bias in Partial Utilities when predicting Choice Shares (Ivo A. van der Lans; University at Leiden);



International Federation of Classification Societies Newsletter

Number 8

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President: Allan Gordon

Editor: Fionn Murtagh

The International Federation of Classification Societies, founded in 1985, is composed of: British Classification Society, Classification Society of North America, Gesellschaft für Klassifikation, Japanese Classification Society, Société Francophone de Classification, Società Italiana di Statistica, Association des Sociétés Yougoslaves de Statistique, and Vereniging voor Ordonatie en Classificatie. (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.

significant contributions to classification or related areas of data analysis, and a competition is being held with a view to awarding a prize at the next IFCS Conference in Japan. I urge established researchers to consider nominating worthy individuals for the prize.

If there is any matter concerning the Federation that you would like to discuss, please feel free to contact me.

Allan Gordon
a.d.gordon@st-andrews.ac.uk

From the President

This issue of the Newsletter is the last to appear under the editorship of Fionn Murtagh. We are greatly indebted to him for his work over the past four years in establishing the Newsletter and publicising the activities of the Federation and its Member Societies. It is a pleasure to welcome to the Executive Committee his successor as Publication Officer, Keiji Yajima. Under his supervision, the Newsletter will continue to have the aim of keeping those interested in classification informed of relevant matters.

One of the Federation's activities relates to the IFCS Prize for Outstanding Research. The purpose of this prize is to recognise young researchers who have made

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Next issue deadline: October 1, 1994

Contact address: see last page