



International Federation of Classification Societies Newsletter

Number 11

October 1995

President: Allan Gordon

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, Société Francophone de Classification, Società Italiana di Statistica, Association des Sociétés Yougoslaves de Statistique, Vereniging voor Ordinate 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.

One of the links is to the home page of the IFCS-96 Conference, to be held in Kobe from 27 - 30 March 1996. I look forward to seeing many of you there.

Allan Gordon

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IFCS-96 March 27-30 1996

In the following page of this issue you will notice that, though somewhat delayed owing certain circumstances, ten plenary speakers and a couple of invited sessions have finally been organized, thanks to the splendid cooperation of all our loyal members concerned.

Thanking you in anticipation of your continuing cooperation in marking the Conference most fruitful and successful, we remain, with warmest regards.

Chikio Hayashi

IFCS-96 Conference President

Email: ifcs96@ism.ac.jp

From the President

This will be my last message to you as president, as my term of office finishes at the end of the year. I would like to take this opportunity to thank members of the Executive Committee and other IFCS committees for the work which they have carried out for the Federation, and to wish Doug Carroll well as he begins his two-year term of office as the sixth IFCS president.

You will be aware of recent rapid developments associated with the World Wide Web. I am pleased to tell you that the IFCS now has a home page, with URL <http://tartan.dcs.st-and.ac.uk/~ifcs/>

This page is linked to the home pages of several Member Societies of the Federation, and further linkages are expected in the future. If you have any suggestions concerning the material on these pages, I would be interested to hear from you.

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IFCS-96

CONFERENCE INFORMATION

Plenary Speakers

- H. Bock: Probability in classification
- A. Gordon: Cluster validation
- C. Hayashi: What is data science ?
- W. Heiser: Fitting graphs and trees with multidimensional scaling methods
- L. Hubert and P. Arabie: The approximation of one-and two-mode proximity matrices by sums of order-constrained matrices
- K. Jajuga: Classification and data analysis in finance
- J. Lee: Statistics, data analysis and classification in Korea
- F. Nicolau: Some trends in the classification of variables
- J-P. Rasson: Convexity methods in classification
- P. Scozzafava: Ultrametric distances

Invited Organizers

- Y. Baba: Visual Treatments in data analysis
- J. Barthélemy: Cognitive sciences and classification
- H. Bock: Classification and information retrieval
- J. Carroll: Multidimensional scaling
- G. Celeux: Regularization methods in discriminant analysis
- E. Diday: Symbolic and relational data analysis
- Y. Dodge: Mathematical programming approach in classification
- A. Ferligoj: Clustering network data
- W. Gaul: Data analysis in economics
- T. Haga: Data analysis in quality control
- D. Hu: Learning approach in data analysis
- N. Lauro: Non-linear data analysis
- L. Lebart: Classification of textual data
- K. Manabe: Facet theory for classification
- F. Murtagh: Spatial clustering and neural network
- Y. Nakamori: Environmental data analysis and classification
- S. Nishisato: Quantification methods/Correspondence analysis
- Y. Takane: Psychometric methods and classification
- M. Tanemura: Spatial data analysis
- M. Vichi: Consensus and comparison theories in classifications
- R. Wille: Information and knowledge systems
- M. Windham: Fuzzy methods and probabilistic methods for clustering
- T. Yoshizawa: Analysis of multiway data

Panel Session

Organizer: Y. Dodge; The art of classification: past, present and future

CONFERENCE INFORMATION

Date and Venue

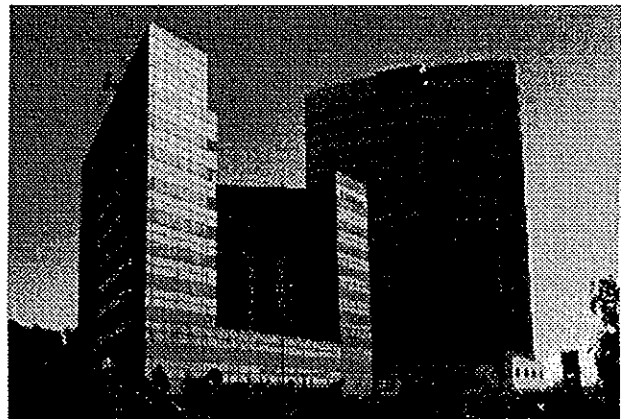
Date: March 27 (Wednesday) through 30 (Saturday), 1996
Place: International Conference Center Kobe 6-9-1 Minatojima Nakamachi Chuo-ku, Kobe 650 Japan
Tel: +81 78 302 5200, Fax: +81 78 302 6485

CORRESPONDENCE TO CONFERENCE OFFICE

Should you have any questions or special requirements, please contact us by mail or by facsimile. We also would appreciate your suggestions.

For Scientific Program

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VOC-Dutch / Flemish Classification Society

The 1995 Spring Meeting of the VOC took place in Groningen on April 13. The scientific programme was as follows:

* Willem K.B. Hofstee (Heymans-Institut, RUG), Taxonomy of Personality Characteristics: Generalized Gappy Circumplexes and Reduced-Rank Cluster Analysis

* I. Leenen, I. Van Mechelen en P. De Boeck (K.U. Leuven), A Generic Decomposition Model for Ordination and Classification using Binary Data

* Michel Wedel (Economy, RUG) and Wayne S. DeSarbo STUNMIX: an Exponential Family Stochastic Unfolding Mixture Methodology

* D. J. Kiewiet (Bedrijfskunde, RUG), A Generalized Classification Model for Information Architecture Specification

* Ulf Boeckenholt (University of Illinois), Mixture Models for Longitudinal Qualitative Data

During the general meeting Willem Heiser officially resigned as member of the Board. Willem Heiser was chairman from the start of the VOC in 1989 till 1994. The last year he was general officer of the board of the VOC and passed his experience to the present chairman, Henk Kiers.

The 1995 Fall Meeting is due on November 24. TNO Institute of Preventive Health Care will host the meeting. The scientific programme will include, among others:

* M. de Kleijn (TNO-PG, Leiden), A new international classification of handicaps

* J. van den Bosch (Dept. of Public Health iMGZ, Erasmus University Rotterdam), Reclassification of causes of death for cause-specific trend analyses

* S. van Buuren (TNO-PG, Leiden), Comparing Grade of Membership Analysis and GROUPALS for medical problems

* E. Tielemans (Agricultural University, Wageningen), Changes in ventilatory function in animal feed workers in relation to organic dust

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BCS-British Classification Society

A meeting was held on May 10th 1995 at DRA Malvern. About 20 were present. Talks were given by Prof. Brian Everitt (Institute of Psychiatry) on "An introduction to finite mixture distributions and some example of their application"; by Dr. Stephen Luttrell (DRA): "The application of partitioned mixture distributions to low-level vision modelling"; by Prof. David Hand (Open University): "Assessing the performance of allocation rules"; and by Prof. J. Q. Smith (University of Warwick): "Bayesian models forecasting emissions of toxic gas in a complex environment"

A meeting was held on May 24th 1995 at The Natural History Museum, jointly with the Department of Botany. Dr Mark Hill (NERC Monks Wood Experimental Station) spoke on "Numerical classification of vegetation: are plants the main interest or is it the environment?" About 24 were present.

The Annual General Meeting was held on 6 July 1995 at 3:30 pm at the Institute of Archaeology, London. Prior to the AGM members of the Society had enjoyed an interesting visit to the Institute of Archaeology, followed by a talk by Dr Hilson.

The Officers and Committee for the 1995-96 Session are as follows:

President:	Mr G. Ross
Secretary:	Mr N. Fieller
Treasurer:	Dr A. Webb
Committee: 1993 / 94	Dr A. Carothers Prof. D.J. Hand Dr D.J. Smith
1994 / 95	Dr G. Arnold Mr S.A. Harding Dr R.J. Henery
1995 / 96	Mr R. Payne Dr E.C. Stillman Mr M.O. Hill
ex President	Prof B. Everitt
ex Secretary	Mr C.B. Moncrieff

*Nick Fieller, Secretary
Email: n.fieller@sheffield.ac.uk*

GfKI-Gesellschaft für Klassifikation

The 20th Annual Conference
University of Freiburg
March 6-8, 1996
Announcement and Call for Papers

The scientific program is dealing with methods and applications in Classification, Data Analysis and Knowledge Organization and provides survey lectures as well as special sections. Aspects of interdisciplinarity and the cooperation between theory and practice gain essential priority.

Proposed topics are (organizers in brackets):

- * Mathematical and statistical models and methods for classification (Bock, Gaul)
- * Data analysis and forecasting (Polasek, Sauerbrei)
- * Modeling and geometric representation of data (Mather, Timmer)
- * Computer based methods of classification and data analysis (Ostermann, Unwinn)
- * Information systems, knowledge and data bases (Schader)
- * Knowledge based methods of classification, automatic learning (Richter, Ingenerf)
- * Conceptual analysis of data and knowledge (Wille, Ganter)
- * Text analysis and information processing, Internet (Herfurth, Hobohm, Waetjen)

Proposed applications are (organizers in brackets):

- * Biology, chemistry (Lausen, Ludwig)
- * Medicine (Klar, Zaiss)
- * Archaeology (Ihm, Vach, Weber)
- * Subject indexing and information systems in libraries (Havekost, Hermes)
- * Linguistics, computer linguistics, information retrieval (Hahn, Pietrzyk)
- * Psychology and social sciences (Balderjahn, Opitz)
- * Economics and technical sciences (Feger, Klauer, Giegler)
- * Buying behavior and marketing research (Baier, Decker)

Furthermore workshops, tutorials and software demonstrations are planned

(organizers in brackets):

- * GMDS Workshop: Medical documentation and classification (Klar, Graubner)
- * GMDS Workshop: Medical linguistics (Pietrzyk, Ingenerf)
- * Tutorial or workshop: Neural networks for classification (Bock)
- * Tutorial: Computer based text interpretation (Herfurth)
- * Advanced education for librarians: Usage of catalogues and search engines in Internet (Waetjen)
- * Demonstrations of software tools for medical classification (Schulz)
- * Demonstration of computer based services of the university library of Freiburg (Ruppert)

Conference languages are German and English. A Proceedings volume in English at Springer-Verlag is planned. After preliminary registration further information will follow. Talks are to be announced to the local organizer R. Klar. In this case please send a camera-ready abstract until November 15th, 1995, (1 page like the enclosed specimen containing references, affiliation and about 3 keywords). If your talk will be accepted (information in December 1995) the summary gets printed in an abstract volume available to all conference participants. Moreover, a paper may be submitted after acceptance of your talk. All submissions will be evaluated by two referees before being published in the Proceedings volume.

Program committee: O. Opitz (Augsburg)
I. Balderjahn (Potsdam)
H.-H.Bock (Aachen)
W. Gaul (Karlsruhe)
H. Havekost (Oldenburg)
R. Klar (Freiburg)
B. Lausen (Dortmund)
W. Polasek (Basel)
M. Schader (Mannheim)

Local organizer: R. Klar (Freiburg)

Correspondence: Prof. Dr. Ruediger Klar, Abteilung für Medizinische Informatik, Universitätsklinikum Freiburg, Stefan-Meier-Str. 26, D-79104 Freiburg,
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Wolfgang Gaul, President
Email: lb69@dkauni2.binet



CSNA-Classification Society of North America

I am pleased to call your attention and invite you to the next annual meeting of CSNA. The 1996 annual meeting will be held jointly with the Numerical Taxonomy Group at the Campus Center Hotel which is located in the center of the University of Massachusetts Campus. Both hotel and dormitory facilities will be available. Several restaurants are located in the hotel complex.

Keynote speakers will include Donald Geman of the University of Massachusetts, Bruno Leclerc of C.A.M.S., Paris, Philippa Pattison of the University of Melbourne, and David Swofford of the Smithsonian Institution.

I am even happier to invite you to get full details from the World Wide Web page with
URL <http://www.pitt.edu/~csna/csna.pc.html>
or directly from the program chair for the CSNA.

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Email: legendre@ere.umontreal.ca

Michel P. WINDHAM, President
Email: windham@mathstat.usouthal.edu

SFC-Société Francophone de Classification

1. The annual SFC meeting was held in Namur (Belgium) on September 28-29, 1995; it was organised by the SFC and the Statistical Unit of the Department of Mathematics of the University of Namur.

The two invited speakers were:

- 1) Prof. A.D. Gordon (President of the International Federation of Classification Societies, University of St. Andrews, St. Andrews, Scotland): On the number of clusters.
- 2) Prof. H. H. Bock (vice-president of the German Classification Society, Technical University of Aachen, Aachen, Germany): Test of validation of a classification.

The programme comprised five other plenary speakers. The twenty six other papers were divided into ten sessions (symbolic data analysis, validation, models, genetic approach, applications to economy, prediction and partitions, shape recognition, ...).

The general assembly of the SFC was held during the meeting. The meeting was well attended and lively discussions followed.

2. Results of the elections:

* J. P. Rasson (University of Namur, Belgium) was elected as vice-president of the SFC. He will serve one year (1995) as vice-president, then two years (1996 and 1997) as president, and one further year (1998) as vice-president.
Tel: +32 81 72 49 28, Fax: +32 81 72 49 14
Email: jpr@math.fundp.ac.be

* O. Hudry (Ecole Nationale Supérieure des Télécommunications, Paris) has been reelected as treasurer of the SFC (1996-1997)
Email: hudry@inf.enst.fr

* P. Kuntz (Telecom Bretagne, Brest, France) has been reelected as Editor of the SFC Bulletin (1996-1997)
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Email: Pascale.Kuntz@enst-bretagne.fr

* A. Hardy (University of Namur, Belgium) has been reelected as secretary of the SFC (1996-1997)
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3. The SFC and the CLAD (Associação Portuguesa de Classificação e Análise de Dados) have signed an Associate membership memorandum. It aims at favoring exchanges of information, facilitating scientific cooperation and joint activities.

4. The issue number 5 of the "SFC Bulletin" was published in September 1995.

Andre HARDY, Secretary
Email: aha@math.fundp.ac.be

CLAD-Associação Portuguesa de Classificação e Análise de Dados

(1) The second annual meeting on Classification and Data Analysis, JOCLAD-94, was held on December 12-14, 1994, at the LEAD-Laboratory of Statistics and Data Analysis, Faculty of Psychology and Education, University of Lisbon. The meeting was mostly sponsored by the Embassy of France and the National Institute of Scientific and Technological Research, JNICT, of Portugal.

Topics covered a wide variety of classification and data analysis methodology and applications. Invited speakers and their titles (occasionally without translation into English) were: Ludovic Lebart, TELECOM, Paris (Classification et Discrimination à partir de Textes); Gilbert Saporta, CNAM, Paris (Méthodes de Mesures Conjointes et Applications en Marketing); B. Fichet, Univ. Marseille (A Methodology for Three-way Data Tables Based on Procruste Analysis); Y. Dodge, Univ. Neuchatel (The Ginea Pig of Multiple Regression); H. Bacelar-Nicolau, Univ. Lisboa (Classificação, Análise de Dados e Outras Ciências); G. Le Calvé, Univ. Rennes (Similarités, Dissimilarités, Préférences: Une Approche Unifiée); G. Celeux, INRIA, Grenoble (Quelques Aspects de la Regression Logistique et un Principe de Maximum Entropie); F. Nicolau, Univ. Aveiro (Os Dados e a Análise de Dados: Uma Abordagem do Ponto de Vista do Utilizador); I. C. Lerman, Univ. Rennes (Matrices AVL. Pour la Classification et l'Alignement de Sequences Proteiques); C. Micko, Techn. Univ. of Braunschweig (Text Divisions and Story Grammars); P. Gomes, Univ. Porto (Amostragem de Variáveis: Uma Abordagem Multivariada no Contexto de um Modelo Probabilístico na n-Esfera)

(2) The next annual meeting of the CLAD, JOCLAD-95, will be held on December 14-16, 1995. The meeting program includes as special topics: classification and discrimination of qualitative data; multivariate analysis of evolutive data; clad packages for research and applications; teaching and learning clad methods at different levels. Applications on Environment and Sea Sciences, Biological and Medical Sciences, Education and Human Sciences, Economy and Marketing are particularly welcome.

A. D. Gordon, president of the IFCS, has already accepted to present an invited paper at JOCLAD-95. Interested persons are requested to contact F. Costa Nicolau, Dep. de Matematica, Fac. de Ciencias e Tecnologia da Universidade Nova de Lisboa, Quinta da Torre, 2825 Monte da Caparica, Portugal
Tel: +351 1 2954464, Fax: +351 1 2954461

(3) An Workshop on Classification, Discrimination and Applications / Empirical vs. Probabilistic Approaches is being organised at the LEAD, included in a scientific Luso-Ameri-

can cooperation program sponsored by the CLAD and the FLAD- American-Portuguese Foundation for Development. Part I, on July 3-4, includes presentations which are specially directed towards users of "clad" methods and takes place at the LEAD/Fac. of Psychology and Education, Univ. of Lisbon. Part II, on July 10-11, focuses more on theory and discussion of the methodology, will be held at the FLAD auditory.

Peter Bryant, from the Graduate School of Business Administration, University of Colorado at Denver, USA, is scientifically responsible of the course.

Other speakers are: Gilbert Saporta, from the CNAM, Paris, Gilles Celeux from the INRIA, Grenoble, France, F. C. Nicolau from the University of Lisbon, H. Bacelar-Nicolau and Gilda Soromenho from the University of Lisbon.

Interested persons are requested to contact H. Bacelar-Nicolau, LEAD - Laboratory of Statistics and Data Analysis, Faculty of Psychology and Education, University of Lisbon, Alameda da Universidade, 1600 Lisboa, Portugal.

Helena Bacelar-Nicolau, President

Tel: +351 1 7934554, Fax: +351 1 7933408

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

Section on Classification and Data Analysis of Polish Statistical Society (SKAD) held its annual conference in Szklarska Poreba on 18-19th of October 1995. The title of the conference was: "Classification and data analysis - theory and applications". The following papers were presented during the conference:

* Czeslaw Domanski, Lechoslaw Stepien (University of Lodz) - Remarks on the quantification of qualitative variables.

* Danuta Strahl, Marek Walesiak (Academy of Economics in Wroclaw)

- Normalization of variables in reference system.

* Jan Owsinski (System Research Institute of Polish Academy of Sciences)

- Data analysis and knowledge engineering: some definitions and their consequences.

* Krzysztof Jajuga (Academy of Economics in Wroclaw)

- Some applications of classification and data analysis in financial problems.

* Kazimierz Zajac, Michal Wozniak (Academy of Economics in Cracow)

- On some macroeconomic relations in Polish economy.

* Eugeniusz Gatnar (Academy of Economics in Katowice)

- Symbolic data classification methods.

- * Jozef Dziechciarz (Academy of Economics in Wroclaw)
 - Quantitative aspects of marketing controlling.
- * Andrzej Bak (Academy of Economics in Wroclaw)
 - Analysis of variance and object programming in experimental market research.
- * Pawel Lula (Academy of Economics in Cracow)
 - Comparative studies of some methods in neural networks learning.
- * Mariusz Grabowski (Academy of Economics in Cracow)
 - Autoassociative methods of cluster analysis.
- * Czeslaw Domanski, Pawel Bogusz (University of Lodz)
 - The classification of enterprises via data processing.
- * Edward Nowak (Academy of Economics in Wroclaw)
 - Some problems of the coherence of cost classifications.
- * Mirosława Gazinska (University of Szczecin)
 - The studies on the population of towns of Prussian Pomerania in 1762-1776 -taxonomic analysis.
- * Wanda Ronka-Chmielowiec (Academy of Economics in Wroclaw)
 - Insurance risk-definitions, classifications and ordering relations.
- * Jozef Hozer et al. (University of Szczecin)
 - Classification of 413 companies participating in mass privatization program.
- * Ryszard Antoniewicz (Academy of Economics Wroclaw)
 - Grouping and lemniscates.
- * Ludwik Adamczyk (Academy of Economics in Wroclaw)
 - Rating-theoretical and applied aspects.
- * Jan Zawadzki (University of Szczecin)
 - Application of discriminant analysis in the studies of financial condition of companies.

Krzysztof Jajuga, President
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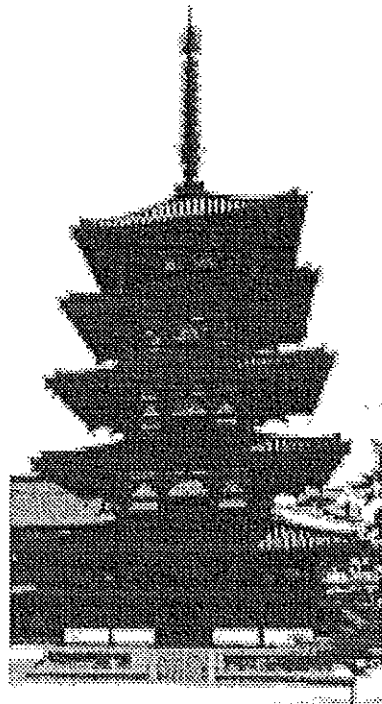
JCS-Japanese Classification Society

The regular elections of Board of the society was made and the new President was selected.

President: Chikio Hayashi
IFCS-96 Conference President
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Fax: +81 3 3273 2445

The annual research meeting will take place on December 22, 1995 at the Institute of Statistical Mathematics.

A. Hayashi
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**STAT' expo 1995 Memo and
CALL FOR PARTICIPATION
STAT' expo 1996, April 10-12
Paris, France**

STAT' expo, Data and Data tools for Data users, was held 11-12-13 April 1995, at the Centre des congrès, Cité des Sciences et de l'industrie, La Villette, Paris, France. It was the first international meeting-exhibition only devoted to data, data and tools for non-specialist data users. It was the presentation of the state-of-the art of the products and services for the quantitative information treatments.

STAT' expo gathered exhibitors from different sectors of activities. Data suppliers, data base builders, statistical software tools as well as 95 executive information systems, data desktop tools and information systems, statistical consulting companies, schools of statistics, 8 countries were represented.

STAT' expo was sponsored by EUROSTAT in the Statistical Office of the European Community with the contributions of the IASC, a section of the ISI, the INSEE, the French Statistical Schools, France Telecom and 01 Informatique magazine.

For any information, please contact: Data Services International, Elodie CREUZET, 51, rue Ledru Rollin, F-94853 Ivry sur Seine, France.
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COMPSTAT96

⌘ Symposium on Computational Statistics will take place under the auspices of the European Regional Section of the International Statistical Institute (ISI). It is organized by the Universitat Politècnica de Catalunya (UPC).

August 26-30, 1996
Barcelona, SPAIN
Information: Prof. Albert Prat
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**Articles from the second 1995 issue of
Journal of Classification
(to be mailed in November)**

F. Murtagh and M. Hernandez-Pajares. The Kohonen self-organizing map method: An assessment.
Serge Joly and Georges Le Calve. Three-way distances.
Bruno Leclerc. Minimum spanning trees for tree metrics: abridgements and adjustments.
Boris Mirkin, P. Arabie, & L. J. Hubert. Additive two-mode clustering: The error-variance approach revisited.
F. J. Lapointe and P. Legendre. Comparing comparison tests for dendrograms.
J. Douglas Carroll and James E. Corter. A graph-theoretic method for organizing overlapping clusters into trees and extended trees.

**Affiliate Rate
*Journal of Classification***

Members of Societies other than CSNA can receive the *Journal of Classification* at the Affiliate rate of \$50 US if the Treasurer of their Society is willing to forward a group order to CSNA's Business Manager. Alternatively, payment may be made directly to CSNA's Business Manager, using a VISA card or MasterCard. Back issues from 1990 - present are available at \$17.50 US each. The annual bibliographic survey costs Affiliates \$20 US. Annual membership in CSNA (which includes a subscription to the *Journal*, access to the annual bibliographic survey, and CSNA's newsletter) presently costs \$65 US. For details, contact CSNA's Business Manager: Professor Dawn Iacobucci, Department of Marketing, Kellogg Graduate School of Management, Northwestern University, 2001 Sheridan Road, Evanston, IL 60208 USA
Tel: +708 491 2722, Fax: +708 491 2498
Email: dawni@nuacvm.acns.nwu.edu.
Note that residency in North America is not required for membership in CSNA and that dues can be paid with a VISA card or MasterCard. Members of some Societies (e.g., British and the GfKl) may want to check with their respective Treasurer about the possibility of paying in local currency.

Next issue deadline: February 15, 1996

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