

any given researcher.

Citation Index

The index of citations relates classification-related papers to items in the given year's profile. Here are five consecutive entries.

- HARTIGAN JA 75
 0533 The Use of Graphs of Elliptic Influence in Visual
 Hier KRIVANEK M
 0554 Knowledge based Approach to Cluster Algorithm
 Selectio BALASUBR.A +
 0573 Investigation of the Structure of Binary Variables
 TELEGDIL
 0593 Weight Constrained Maximum Split Clustering
 HANSEN P +
 0610 Recognition of Tree Metrics
 BANDELDT HJ

The two fields of the heading describe, by author and date, the profile item being cited. The fields of each entry describe a paper in which a citation appears: the first field is the citing paper's sequence number in the bibliography; the second and third fields give the title and author(s) of the citing paper. The citations are sorted alphabetically by identification of cited (profile) item, and so it is easy to locate classification-related papers citing any given profile item.

The sources of bibliographic information, which go into the making of each annual issue of *Service*, are as follows. The first step in constructing the bibliography is to collect data about journal papers. The *Service* obtains this data from *Research Alert*, a bibliographic service of the Institute for Scientific Information (ISI, Philadelphia). *Research Alert* enables the *Service* to access papers in over 8000 science, technical, and social sciences journals including those from the Science Citation Index, Social Sciences Citation Index, and Arts & Humanities Citation Index databases. To use *Research Alert*, the *Service*'s Editorial Board compiles a list, or profile, of books or papers. A journal paper is considered to be classification-related if it cites one or more profile items. Using the profile, *Research Alert* provides the *Service* with bibliographic information about classification-related papers in recent issues of the 8000 journals it processes.

Research Alert's selection procedure depends completely on the profile. The Editorial Board reviews the profile regularly in order to ensure that the papers selected by *Research Alert* are relevant to classification and related areas of data analysis. The Editor welcomes your suggestions for improving the composition of future profiles.

The next step is to consider for inclusion in the bibliography those classification-related papers the titles of which contain one or more keywords from a list (shown in each volume of *Service*). Most classification-related papers with methodological, theoretical, mathematical, statistical, or formal contents will satisfy this criterion. In

a final step, members of the Editorial Board review the titles to ensure that the bibliography includes all those papers which they think likely to interest the *Service*'s readers.

Service is available for \$15 US per volume for volume 20 (1991) which covers papers in 1991 and will be mailed out in May 1992. *Service* also comes automatically with regular membership of the Classification Society of North America (\$45 US per year). Back issues are available, at a discounted rate. Further information may be obtained from the editor: William H.E. Day, Department of Computer Science, Memorial University of Newfoundland, St. John's, NF A1C 5S7, Canada. Email: whday@kean.ucs.mun.ca.

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The Classification Literature Automated Search Service

The *Classification Literature Automated Search Service* is published annually on behalf of the Classification Society of North America. It provides a comprehensive view of classification research, which is a common theme shared by many different disciplines.

The *Service* is based on papers accessed from over 8000 journals. The *Service's* Editorial Board compiles a list, or profile, of books or papers, called profile items, that are indicative contributions to the theory and practice of classification. The profile for the 1990 volume of *Service*, for example, contained 81 items (book or article titles). A journal paper is considered to be classification-related if it cites one or more profile items. The 1990 volume of *Service* described 1298 citations from 887 papers in 431 journals.

The *Service* contains: a bibliography of classification-related papers in which entries are grouped together by subject area; an author index; and a citation index which identifies the classification-related papers that cite each profile item.

Bibliography

Here is a typical entry.

0593 J CLASSIF 7(2): 217-240,1990
Weight Constrained Maximum Split
Clustering
HANSEN P + JAUMARD B + MUSITU K
Rutgers State Univ, Rutgers Ctr
Operat Res, Hill Ctr Math Sci, New
Brunswick, NJ 08903
GORDON AD 81; HARTIGAN JA 75;
SPATH H 80; ZAHN CT 71

This entry has five parts: the paper's complete journal citation (line 1); the paper's title (line 2-3); the paper's authors (line 4); address of the (principal) author (lines 5-7); and a list of items from the 1990 profile that this paper cites (lines 8-9). The entry's first line begins with a four-digit sequence number identifying this paper's position in the bibliography; the indices identify papers by these sequence numbers. Immediately following the paper's sequence number is an eleven-character identification of the journal in which the paper appears. If you don't recognize the journal title from this abbreviation, you can locate the complete title in the section of *Service* entitled "Abbreviated and Full Titles of Cited Journals".

The bibliographic entries are classified by subject area. An entry's subject area is derived from the type of the journal in which the paper appears, rather than from the paper's content. Journal types are determined using Ulrich's *International Periodicals Directory 1989-1990*, which classifies journals into subject categories (e.g. astrology,

oriental studies). These categories are grouped into major subject areas. SCIENCES: COMPREHENSIVE WORKS includes papers from interdisciplinary journals (e.g. *Nature*, *Science*). Specific subject areas are:

BIOLOGICAL SCIENCES
INFORMATION SCIENCES
BUSINESS
MATHEMATICAL SCIENCES
EARTH SCIENCES
MEDICAL SCIENCES
EDUCATION
NATURAL SCIENCES
ENGINEERING
PHYSICAL SCIENCES
HUMANITIES
SOCIAL SCIENCES

OTHER includes papers either from incompletely identified journals or from journals in subject categories (e.g. astrology) that could not be assigned to the previous subject areas. BIOLOGICAL SCIENCES, MATHEMATICAL SCIENCES, and SOCIAL SCIENCES are also classified into minor subject areas (e.g. BIOLOGICAL SCIENCES - Zoology).

Within each major or minor subject area, the bibliographic entries are sorted alphabetically by abbreviated journal title before sequence numbers are assigned. Therefore it is easy to locate all classification-related papers appearing in a journal assigned to a given subject area. For example, the 17 classification-related papers from the Journal of Classification appear with sequence numbers 0583-0599 in MATHEMATICAL SCIENCES - Mathematics. If you are not sure in which subject area a journal appears, a section of *Service* may be consulted which identifies each journal's subject area.

Author Index

As an example of the author index for the journal papers appearing in the bibliography, here are four consecutive entries.

HANSELL RIC	0112	A Community Perspective on the Multidimensional Niche
HANSEN P	0593	Weight Constrained Maximum Split Clustering
HANSON SJ	0813	What Connectionist Models Learn - Learning and Represent
HANUSSE P	0532	Object Detection and Identification by Hierarchical Segm

Each entry contains an author's name (at the left), the sequence number of a paper written by the author, and the title of the paper (at the right). A multiple-authored paper has separate entries for each of its authors. Since the entries are sorted alphabetically by author's last name, it is easy to identify all classification-related papers written by

Société Francophone de Classification, SFC

Recent Theses

Michèle Sebag,

“Une approche symbolique-numérique pour la discrimination à partir d'exemples et de règles : l'apprentissage multi-couches”,
1990, Université Paris IX-Dauphine.

Abdallah Mkhadri,

“Classification et discrimination des données qualitatives discrimination multinomiale régularisée”,
1990, Université Paris VI.

Christine Decaestecker,

“Apprentissage en classification conceptuelle incrémentale”,
1991, Université Libre de Bruxelles.

Maria-Paula De Pinho De Brito,

“Analyse des Données Symboliques - Pyramides d'héritage”,
1991, Université Paris IX-Dauphine.

Baydaa Al Ayoubi,

“Analyse des données en distance de type M1 - Théorie et algorithmes d'optimisation”,
1991, Université de Haute-Bretagne - Rennes II.

Mohamed Ouali Allah,

“Analyse en préordonnances des données qualitatives - Applications aux données numériques et symboliques”,
1991, Université de Rennes I.

Régine Vignes,

“Caractérisation automatique de groupes biologiques”,
1991, Université Paris VI.

Jacques Lebbe,

“Représentation des concepts en biologie et en médecine - Introduction à l'analyse des connaissances et à l'identification assistée par ordinateur”,
1991, Université Paris VI.

Yamina Bencheikh,

“Classification automatique et modèles”,
1992, Université de Metz.

Annie Larher,

“Implication statistique et applications à l'analyse de démarches de preuve mathématique”,
1991, Université de Rennes I.

The foregoing list is a small selection of recently defended doctoral theses. Please send details of theses, for summarization in the next issue of the Newsletter, to Patrice Bertrand.

Details of the First Meeting of the Société Francophone de Classification, to be held at the Ecole Nationale Supérieure des Télécommunications de Bretagne, Brest, France, on September 24-25, 1992, appear on page 4 of this issue.

Patrice Bertrand
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F-78153 Le Chesnay Cedex
France

4th Conference of the International Federation of Classification Societies

"Classification and Related Methods of Data
Analysis"

Ecole Nationale Supérieure des
Télécommunications, Paris, France

August 31-September 3, 1993

Deadline for abstracts: November 30, 1992

Abstracts to: INRIA-Rocquencourt, Bureau
des Colloques, Domaine de Voluceau, BP 105,
F-78153 Le Chesnay Cedex, France.

Fax: + 33 1.39.63.56.35.

Email: symposia@cluny.inria.fr

Classification Society of North America

The Classification Society of North America has started its twenty fourth year. As the incoming president of CSNA I plan to continue to -

- * encourage the dissemination of ideas developed by IFCS members
- * encourage the infusion of new ideas and methods of classification developed by non-members of classification societies
- * encourage discussion and articulation of substantive problems
- * encourage the identification and communication of case studies that describe the process of formulating and solving problems in both the theory and practice of substantive areas
- * encourage the communication and collaboration of CSNA members with members of all societies of IFCS

The current Board of Directors of CSNA has the following members.

Herman P. Friedman	President
Richard C. Dubes	Past President
Michael P. Windham	President-Elect
William H.E. Day	Buisness Manager
Phipps Arabia	Editor Journal of Classification
Peter G. Bryant	Director
Geert De Soete	Director
Melvin F. Janowitz	Director
Joseph B. Kruskal	Director
Fionn Murtagh	Director
Shizuhiko Nishisato	Director

The 1992 **annual meeting of CSNA** will be held at the Kellogg Center on the campus of Michigan State University on June 12 and 13. The **deadline** for submission of Abstracts is March 15, 1992. The abstracts should be sent to email: Wayne_S._Desarbo@um.cc.umich.edu. (See IFCS Newsletter No. 3, October 1991, page 9, for more details)

I welcome all comments and suggestions. I look forward to hearing from you.

Herman P. Friedman
President CSNA
45 East End Ave #4F
New York City, N.Y. 10028

Email: herman@morgan.com

VOC - Vereniging voor Ordinatie en Classificatie Dutch/Belgian Classification Society

The 1991 fall meeting of the VOC took place in Rotterdam, at the Erasmus University, on October 23. The Institute for Research of Social Health Care hosted the meeting. About 60 VOC members attended.

The following papers were presented:

E.S. Gelsema: Correspondence analysis as a method for image processing

B.A. Van Hout: Grade-of-Membership analysis as a method for modeling chonical diseases

J.A.P. Hagenaaars: Applications of latent class analysis in social science research

C.W.N. Looman: Factor and cluster analysis in medical research

M.L. Essink-Bot: A comparative study of questionnaires for chonical diseases

S. Oppe: A comparison of CANALS and GLIM for road accident analysis

Y. Takane: Constrained principal components analysis.

A delegation of the VOC will contribute to the Annual Meeting of the German Classification Society, to be held at the University of Dortmund, from 1-3 April 1992.

The **VOC 1992 spring meeting** will be held at the University of Leiden, on April 6. One of the themes of the papers that will be presented will be bibliometric research. After the scientific part of the meeting, the annual business meeting will be held.

Conferences - Meetings - Workshops

Premières Rencontres de la Société Francophone de Classification
Ecole Nationale Supérieure des Télécommunications de Bretagne, Brest
September 24-25, 1992

Organising Committee:

J.-P. **Barthélemy**, LIASC, ENST-Bretagne; P. **Bertrand**, Univ. Paris Dauphine and INRIA-Rocquencourt; E. **Diday**, Univ. Paris Dauphine and INRIA-Rocquencourt; S. **Garlatti**, LIASC, ENST-Bretagne; A. **Hillion**, ENST-Bretagne; and H. **Rétif**, LIASC, ENST-Bretagne.

Deadline for presentations: May 31, 1992.

Contact: J.-P. Barthélemy, LIASC, ENST-Bretagne, BP 832, 29285 Brest Cedex, France.

ISEP-9
International Society for Evolutionary Protistology
9th Biennial Meeting
Orsay Campus, Université Paris IX, France.
July 3-7, 1992.

The theme of ISEP-9 is "Towards a global phylogeny of eukaryotes". Special emphasis will be placed on the confrontation of molecular and morphological data. The program includes eight sessions, each composed of invited and contributed papers; two workshops; a poster display; the President's address; and a senior guest lecture.

Local organizers are **André Adoutte** and **Roland Perasso**, Laboratoire de Biologie Cellulaire 4, Bâtiment 444, Université Paris-Sud, 91405 Orsay-Cedex, France.

Arrangements are being made for submitted papers to be published in *BioSystems*.

Deadline: Registration form, papers, and fee by April 1, 1992 to R. Perasso.

To obtain further information and forms for registration and Call for Papers, contact: A. Adoutte or R. Perasso at the address above, or at: Tel: (33)-1-69.41.72.91, Fax: (33)-1-69.41.21.30, Email: ADOUTTE@FRCITI51.BITNET

Telephone information in North America: M. Ragan, NRC-IMB, Halifax, NS Canada, 902-426-1674, or fax 902-426-9413

Fourth International Workshop on Artificial Intelligence and Statistics
Fort Lauderdale, Florida
January 3-6, 1993

This is the fourth in a series of workshops which has brought together researchers in Artificial Intelligence and in Statistics to discuss problems of mutual interest. This workshop will have as its primary theme: "Selecting models from data". Particularly encouraged are papers on the following topics: model selection; model search; model validation; integrated man-machine modeling methods; and software tools and environments for the above.

Deadline: Three copies of an extended abstract (up to 4 pages) to: P. Cheeseman, Program Chair, 4th Int'l. Workshop on AI+Stats, NASA Ames Research Center, MS 269-2, Moffett Field, CA 94035, USA; or electronically to ai-stats@watstat.waterloo.edu or ai-stats@watstat.uwaterloo.ca (LaTeX format preferred) by June 30, 1992. Poster submissions are accepted up to July 31, 1992. On acceptance, preliminary papers are due by November 1, 1992.

General Chair: **R.W. Oldford**, U. of Waterloo; Program Chair: **P. Cheeseman**, NASA/Ames, California.

Journal of Classification, Vol. 8, No. 2, 1991 **Contents**

Book reviews are not included here.

G. **Celeux** and G. **Govaert**: *Clustering Criteria for Discrete Data and Latent Class Models* 8, 157-176

F.-J. **Lapointe** and P. **Legendre**: *The Generation of Random Ultrametric Matrices Representing Dendrograms* 8, 177-200

W. **Szczesny**: *On the Performance of a Discriminant Function* 8, 201-215

W. **Vach** and P. O. **Degens**: *A New Approach to Isotonic Agglomerative Hierarchical Clustering* 8, 217-237

G. M. **Fitzmaurice**, W. J. **Krzanowski**, and D. J. **Hand**: *A Monte Carlo Study of the 632 Bootstrap Estimator of Error Rate* 8, 239-250

K. C. **Klauer** and J. D. **Carroll**: *A Comparison of Two Approaches to Fitting Directed Graphs to Nonsymmetric Proximity Measures* 8, 251-268

JCS - Japanese Classification Society

The annual research meeting of JCS, held on 16 November 1991 at the Institute of Statistical Mathematics, was combined with events celebrating the 60th anniversary of the Japan Statistical Society.

There were 12 submitted papers and 52 people attended the meeting. During the meeting CRESS (Classification References Electronic Search Service) was demonstrated by Prof. Ohsumi using a Macintosh. References are collected from sixty journals issued in 1991 and it can be used by society members on request.

Speakers and sometimes freely translated titles are as follows:

Yasuo Baba, "Cluster analysis based on ranking data".

Mariko Murata and **Noboru Ohsumi**, "Differences between correspondence analysis and non-symmetrical correspondence analysis".

Wataru Iwamoto and **Masakatsu Murakami**, "Objects reallocation and adjustment of cluster numbers in agglomerative hierarchical cluster analysis".

Setsuko Takakura, "Clustering approach in consideration of variable dependency structure", as Special Lecture.

Yutaka Tanaka, **Shingo Watadani**, "Sensitivity analysis in covariance structure analysis with equality constraints".

Hideki Hida, **Takenobu Tasaki**, and **Masashi Goto**, "Evaluating the adjoint projection pursuit regression through its applications".

Tadashi Imaizumi, "Cluster analysis based on the asymmetric similarity matrix".

Sumimasa Ohtsuka and others, "Studies on skeletal maturing indicators by using roentgenographic cephalogram".

Mikinori Tsuiki, "Neural networks for land-cover classification".

Tomoyuki Hakamata and others, "Pasture production prediction using seven meteorological patterns: case study of the Hokkaido Kosen area".

Tomoyuki Hakamata, **Masaru Takeya**, "Seasonal change analysis of air temperature for forecasting of agro-ecosystems accompanying global warming".

Keiji Yajima, "Correspondence analysis of questionnaires relating to the operations of computer-integrated manufacturing".

Keiji Yajima
Science University of Tokyo
II6718 @ JPNSUT20.bitnet

Positions

University of Pittsburgh, Department of Information Science.

The Department of Information Science announces two open positions for tenure track Assistant or Associate Professors, with appointments beginning in either the Fall Term, 1992, or Fall Term, 1993. Candidates must have a Ph.D. in information science, computer science, cognitive science, telecommunications or a related field. We are seeking applicants with teaching and research interests in one or more of the following areas: artificial intelligence, broadband and optical networks, database management, design of interactive systems, geographic information systems, human-computer interaction, hypertext and hypermedia, information systems design, information storage and retrieval, medical informatics, standards, or visualization.

We seek applicants with balanced research and teaching interests, and strongly encourage women and minority candidates to apply. Applications received by April 1st will receive full consideration. However, the positions remain open until filled. Our salaries, benefits, and teaching schedules are highly competitive. Applicants should send a vita, a statement of research interests, any relevant reprints or preprints, and three references to: Dr. Stephen Hirtle, Chair of Search Committee, Department of Information Science, LIS Building, University of Pittsburgh, Pittsburgh, PA 15260. Inquiries via email may be addressed to sch@lis.pitt.edu. The University of Pittsburgh is an Equal Opportunity/Affirmative Action employer.

Utah State University - Department of Mathematics and Statistics

Applications and nominations are invited for a tenure-track position in statistics at the assistant or associate professor level, to begin September 1992. Requirements include a PhD (or its equivalent), excellence in research, and demonstrated commitment to both undergraduate and graduate teaching. Research interests in theoretical statistics, multivariate analysis, or nonparametrics are desirable, but not essential.

Utah State University, located in the Wasatch Range of the Rocky Mountains, offers competitive salaries and excellent medical, retirement, and professional benefits.

Applications, including resume and three letters of reference, should be sent to Michael P. Windham, Search Committee, Department of Mathematics and Statistics, Utah State University, Logan, UT 84322-3900. Review began February 1, 1992, and will continue until the position is filled.

Women and minorities are particularly encouraged to apply. EO/AEE.

**Gesellschaft für Klassifikation (GfKI)
16th Annual Meeting, "Information and
Classification", April 1-3, 1992, University
of Dortmund, Dortmund, Germany**

This conference will provide about 140 invited and contributed papers and a series of workshops, tutorials and software presentations. The scientific programme is proceeded by 4 plenary lectures, 8 survey lectures (2 in parallel) and about 35 more specialized sessions in six parallel streams (always at least two in English). Due to generous support by the German Research Foundation about 30 renowned speakers from abroad could be invited, which provides an international ambiance for this Conference.

The scientific programme is best reflected by a list of Sessions and titles presented:

- Classification and discrimination 1, 2
- Cluster analysis 1 - 7: hierarchical and tree-like structures, distance-based and discrete clustering methods, spatial clustering, ordinal and conceptual classification, probabilistic methods, robustness aspects, classification of time series, regression and function clustering)
- Data analysis 1 - 9: principal components, scaling methods, correspondence analysis, biplots, exploratory and computational data analysis, conceptual analysis and data representation, multi-way, discrete and ordinal data, rule-based prediction, feature pattern analysis
- Neural networks for EDA and classification
- Fuzzy data and uncertainty in expert systems
- Applications 1 - 6: in economics, linguistics, musicology, social sciences, environment
- Analysis of molecular sequence data, phylogeny
- Data analysis in archeology 1 - 2: spatial analysis, seriation and correspondence analysis, the Cappadocian tablet problem
- Concept analysis
- Information systems 1 - 6: knowledge systems, hypertext systems, knowledge representation and acquisition, classification of symbols
- Information retrieval: representation and models for data, information structures, the interface between retrieval and clustering, automatic text linking
- Linguistic aspects in medicine: thesauri, semantic analysis, indexing and SNOMED, coding of texts, word

descriptors, classification and diagnosis

— Library sciences: OPAC, content analysis, library classification systems

— Software for data analysis, clustering and retrieval.

Three workshops concern medical linguistics, sequencing and analysis of sequence data, and archeological data analysis. There are four tutorials: "Classification systems for libraries and documentation", "Systematics in OPACs"(March 31), "Cluster analysis" (March 31), and "Phylogenetic analysis of genetic data".

Information can be obtained from: Dr. B. Lausen, Faculty of Statistics, University of Dortmund, P.B. 500 500, D-5100 Dortmund 50, Germany.

Phone +49 231 755-3180, -3113, Fax -3918, email: gfk192@amadeus.statistik.uni-dortmund.de

British Classification Society

The Spring Meeting of the British Classification Society is a joint meeting with the Royal Statistical Society Multivariate Study Group. It will take place on Tuesday 17th March at the Open University, Milton Keynes. The programme is as follows.

- 2.30 Dr **Roger Payne**
(AFRC, Rothamsted)
Keys and tables for identifying yeasts
- 4.15 Dr **Andrew Carothers**
(MRC Human Genetics Unit, Edinburgh)
Automatic classification of human chromosomes

The Society is arranging a visit to the Institute of Astronomy, Cambridge in the summer. We understand they are carrying out interesting work on star and galaxy classification.

Shirley Hitchcock, Secretary, BCS.
se_hitchcock@vax.acs.open.ac.uk



International Federation of Classification Societies Newsletter

Number 4 March 1992

President: William H.E. Day

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 Ordiinatie en Classificatie.

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.

Editorial

The Federation is managed by its Council and by the Council's Executive Committee. Since the Council tends to focus on long-range plans and policies, the Executive Committee looks after the Federation's daily administrative needs. In addition to myself, the members of this committee are John Gower (Vice-President), Pierre Legendre (Secretary-Treasurer), and Fionn Murtagh (Publication Officer). Two ad hoc committees are also presently active.

The Guidelines Committee is developing guidelines to assist the organizers of IFCS conferences and to establish the interface between the IFCS Council and the local conference organizers. Its members are H.H. Bock (Chair; Aachen, Germany), P. Arabie (Newark, USA), D.J. Hand (Milton Keynes, Gt. Britain), G. Saporta (Paris, France), and K. Yajima (Tokyo, Japan). At the end of 1991, Professor Bock circulated to the Committee's members a list of topics to be considered, and some preliminary ideas. Presently he is revising the document in response to the members' replies. Since all Committee members were reasonably satisfied with the basic document, Professor Bock is cautiously optimistic that the Committee will complete its report without too much delay.

The Awards Committee is developing proposals for ways in which the Federation might recognize outstanding professional contributions of individuals to classification or related areas. Its members are A.D. Gordon (St. Andrews, Gt. Britain), J.J. Meulman (Leiden, Netherlands), and

myself as Chair. Among the many possibilities, we considered first an award to recognize young scientists who have shown outstanding research competence or potential, but who have not yet gained international stature. I am just now drafting this proposal. When it has been approved by the Committee, I will send it for criticism to the Council's members and to the officers of the Federation's member societies.

One of the Executive Committee's ongoing responsibilities is to encourage professional organizations which are active in classification to apply for membership in the Federation. Groups from Poland, Portugal, and the Commonwealth of Independent States have expressed interest in joining the Federation. I hope we will receive formal applications in time to welcome one or more new member societies during the Federation's Fourth Conference, in Paris, from 31 August to 3 September 1993.

Elsewhere in this issue you will find the postal and electronic mail addresses of the Executive Committee's members. If you would like to discuss matters concerning the Federation, please contact us.

William H.E. Day, President IFCS
Department of Computer Science
Memorial University of Newfoundland

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