# Reports and Communications

## Infoterm News

Infoterm News has been a regular feature in our journal, but had to be discontinued beginning 1985–1 as we did not receive any longer directly the current Newsletters (on which it was based) from Infoterm, Vienna, as in the previous years but only with a delay of several months through the "TermNet News" periodical, which is printed and distributed in Canada according to an agreement between Infoterm and GIRSTERM, Québec. Thus much of the News is outdated before it gets even to us. We should like to hear from our subscribers, however, whether they would still be interested to see this "News"-feature in our journal even if it would not be so new any longer.

Otherwise, we should like to recommend to subscribe to TermNet News via Infoterm, PF 130, A-1021 Vienna.

We would also like to refer to the current bibliography (which comes also with TermNet News) of monographs in the field of terminology and terminological lexicography called BIBLIOTERM. It appears quarterly and lists each time some 75 titles in systematic order on 8–10 pages (without an author index though).

## 4th International Symposium "Data Analysis and Informatics" Versailles, 9–11 Oct.1985

The Institut National de Recherche en Informatique et en Automatique (INRIA) held its "Quatrième Journées Internationales: Analyse des Données et Informatique" in Versailles. According to the program some 66 papers were given in 11 sessions as follows:

### *Classification/Clustering:*

R.R.SOKAL: Spatial data analysis and historical processes. – M.ROUX: Représentation d'une distance par un arbre aux arêtes additives. – F.CRITCHLEY: Dimensionality theorems in scaling and clustering methods. – I.C.LERMAN, Ph.PETER: Organisation et consultation d'une banque de "petites annonces" à partir d'une méthode de classification hiérarchique en parallèle. – B.G.MIRKINE: Additive clustering and qualitative factor analysis methods. – G.BROSSIER, G.Le CALVE: Analyse des dissimilarités sous l'éclairage VD – Application à la recherche d'arbres additivs optimaux. – Ph.LEHERT: Ultramétrique inférieure maximale et complexité. – C.J.F.TER BRAAK: Interpreting a hierarchical classification with simple discriminant functions: an ecological example. – M.REINERT: Classification descendante hiérarchique – Un algorithme pour le traitement des tableaux logiques de grandes dimensions. – T.NOWICKE, T.STACHOWIAK, W.STANCZAK: On some clustering policy induced by the problem formulation. – M.KRIVANEK: On the computational complexity of clustering. – A.GUENOCHE: Fonctions booléennes sur un tableau en 0/1.

### *Factor Analysis and Regression:*

W.J.HEISER: Undesired nonlinearities in nonlinear multivariate analysis. – A.LEROY, P.J.ROUSSEEUW: Robust regression on micro computers. – C.GROS, P.BERTUZZI, L.BRUCKLER: Influence des erreurs de mesure dans un modèle linéaire. Application à l'étalonnage d'une sonde à neutrons. – J.DE LEEUW, E.VAN DER BURG: The permutational limit distribution of generalized canonical correlations. – P.IHM: Diagnostics and robust estimation in multivariate contingency tables. – R. LAFOSSE: Une nouvelle analyse procrustéenne de deux tableaux – Application à la détection des couples originaux. – A.CARLIER: Analyse des évolutions sur tables de contingences: quelques aspects opérationnels. – A.MOOIJAART, P.BENTLER: Random polynomial factor analysis. – M.MAURIN: Métriques et agrégations de métriques en A.C.P.

### *Factor Analysis:*

G.SAPORTA: Régions de confiance en analyse des correspondances. –H.YANAI: Some generalizations of correspondence analysis in terms of projection operator. – B.ESCOFIER, J.PAGES: Le traitement des variables qualitatives et des tableaux mixtes par analyse factorielle multiple. G.BOVE: A proposal for the solution of some problems involved in correspondence analysis. – P.CAZES: Correspondence hiérarchiques à un niveau et ensembles associés. – J.C.DEVILLE: Nature et fonction des modèles en analyse des données socio-économiques. – CAUSSINUS, H.: Quelques réflections sur la part des modèles probabilistes en analyse des données.

### *Data Survey Processing:*

C.HAYASHI et al: Comparative study of quality of life and multi-dimensional data analysis. – I.SANTINI: The new geographic map of Italy and the methods of data analysis. – S. BONNEFOUS, J.BRENOT, J.P.PAGES: Méthode de la greffe et communication entre enquêtes. Application dans le domaine des sciences sociales. – T.SAKAKURA: Analyse multidimensionnelle appliquée à l étude de la "conscience des habitants du quartier urbain de Tokyo". Ph.CIBOIS: Le dépouillement d'enquête par la méthode Tri-deux: développements récents.

### *Applications:*

I.HEINRICH, J.A.D.ANDERSON: Numerical classification of low back pain. – J.P.VALOIS, D.HELIOT: Mise en oeuvre interactive des choix algorithmiques – Application à l'analyse factorielle des données géochimiques. – A.J.B.ANDERSON, S.T.BUCKLAND: Validation and analysis of species distribution data with particular reference to the North-East Scotland bird atlas. – E.CLOUTIER, L.LAFLAMME, A.ARSENAULT: Scenarios d'accidents obtenus par l'analyse factorielle des correspondences sur tableaux de contingence juxtaposés. – J.H.Chauchat: Codage optimal ou codage a priori pour les variables à modalités ordonnées? La sensibilité de la régression multiple aux différents codages monotones possibles. – I.T. JOLIFFE: Graphical representation of multiple comparisons of means using dendrograms. – P.J.ROUSSEEUW: A visual display for hierarchical classification.

### *Informatics:*

N.OHSUMI, K.YAJIMA: Data analysis software for micro computers in Japan. – W.A.GALE: Knowledge representation for statistics. – J.R.BARRA, M.BECKER: Conception d'un logiciel d'assistance intelligente en analyse factorielle et canonique. – J.LEMAIRE: Choix informatique du concepteur de logiciels d'analyse de données sur micro-ordinateurs. – F.BRY: Spécificités des S.G.B.D. statistiques. G.JOMIER, O.KEZOUIT, H.RALAMBONDRAINY: Contribution aux bases de données statistiques – Le système SINDBAD. – J.L.CHANDON: Panorama des logiciels francais d'analyse de données.

### *Discrimination and Pattern Recognition:*

V.V.ALEXANDROV: Integrated approach to data analysis. – J.AGUILAR-MARTIN, N.PIERA I CARRETE: Les connectifs mixtes: de nouveaux opérateurs d'association des variables dans la classification automatique avec apprentissage. – J.L.MALLET, J.M.EPITALON, F. DE BEAUCOURT: Discrimination nonlinéaire par indicatrices floues: Application à la reconnaissance des formes. – P.BAUFAYS, J.P. RASSON: Une approche géométrique en analyse discriminante. – P.G.M.VAN DER HEIJDEN: Transition matrices, model fitting and correspondence analysis. – G.DER MEGREDITCHIAN: Signification "Relative" et "Collective" de l'informativité des prédicteurs. – Ph.MEUNIER, J.P.RASSON, E.DIDAY: Une méthode de sélection typologique de variables. – D.Dutta MAJUMDER, C.A.MURTHY: A method of finding the boundary of a cluster.



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*Coding and Factor Analysis:*

A.W.P.CANTON: The conditional risk approach to selection and ranking problems. – S.NISHISATO: Generalized forced classification for quantifying categorical data. – B.FICHET, A.GBEGAN: Analyse factorielle des correspondances sur signes de présence-absence.
A.DI CIACCIO: Representation of a new association measure between categories using multidimensional scaling. – S.CHAH: Critères de classification sur des données hétérogènes. – G.DE SOETE, D.J. CARROLL: Probabilistic multidimensional choice models for representing paired comparisons data. – J.BENASSENI: Stabilité en A.C.P. par rapport aux incertitudes de mesure. – J.B.KAZMIERCZAK: Une application du principe de Yule: l'analyse logarithmique.

*Medical Data:*

P.LORENTE et al: Choix d'une règle décision optimale dans le traitement de l'infarctus myocardique aigu par contre-pulsion intra-aortique. – F.FACY, H.RALAMBONDRAINY, M.CHOQUET: Intersection de partitions sur un même échantillon. Etude des lycéens par rapport à leur auto-portrait et leur usage de drogues. – A.PATRIS et al: Analyses multidimensionnelles sur le coefficient de contingence de K.PEARSON modifié – Application à l'analyse du profil dépressif des salariés.
In addition a Poster Session with 18 presentations was announced and Demonstrations of 20 data analysis software programs. – For further information contact INRIA, Bureau des Colloques, Domaine de Voluceau, Rocquencourt, B.P.105, F-78153 Le Chesnay.

### 14th International Colloquy on Information and Documentation, Erfurt, GDR, 26–28 Nov.1985

Every two years in November the Institut für Informationswissenschaft, Erfindungswesen und Recht (INER) of the Technical University of Ilmenau, GDR, organizes its Colloquies on topics of the information sciences and of legal questions relating mostly to patents. The usually excellent program attracts many colleagues. The 14th Colloquy with the topic "Use of Information Technologies for the Acceleration of Scientific and Technical Progress and Success in the Economic Strategy" (Nutzung von Informationstechnologie zur Beschleunigung des wissenschaftlich-technischen Fortschritts und zur Durchsetzung der ökonomischen Strategie) offered 138 papers of which the considerable number of 21 papers are of relevance in our subject field. These papers are published in two volumes of the series "Schriftenreihe Dokumentation/Information", No.65 and 66 and are listed in the conference section 06 of our current bibliography "Classification Literature" - on the last pages of this issue.

### 8th European Meeting on Cybernetics and Systems Research University of Vienna, April 1–4, 1986

A preliminary program and invitation of papers is being circulated by the Österreichische Studiengesellschaft für Kybernetik (A-1010 Wien I, Schottengasse 3) which will hold EMCSR 86 together with the University of Vienna, Department of Medical Cybernetics and Artificial Intelligence. The Meeting will open and close with plenary sessions and will have 12 Symposia on topics such as (coordinators are given in brackets):
General Systems Methodology (G.J.Klir). – Cross-Disciplinary and Empirical Refinement of Isomorphies (L.Troncale). – Designing and Systems (W.Gasparski). – Humanity, Architecture, and Conceptualisation (G.Pask). – Fuzzy Sets (C.Carlsson). Methodological Improvements and new Applications of Expert Systems (W.Horn, C.A.Kulikowski). – Knowledge Based Natural Language Processing (R.Brachman, H.Trost).

In conjunction with this Meeting there will be a Special Conference on "Future and Impacts of Artificial Intelligence", supported by the International Federation for Systems Research (IFSR). The conference fee is included in the one for EMCSR-86.

### 7th European Conference on Artificial Intelligence (ECAI) Brighton, U.K., 22–25 July 1986

This conference is organized under the auspices of the European Coordinating Committee for Artificial Intelligence and sponsored by the Society for the Study of Artificial Intelligence and the Simulation of Behaviour. General Chairman: Benedict Du Boulay. Local Arrangements Chairman: David Hogg. The University of Sussex. Cognitive Studies Programme, Brighton, BN19QN, U.K. Programme Chairman: Luc Steels, Vrije Universiteit Brussel, IA Lab., Pleinlaan 2, B-1050 Brussels.
The Call for Papers lists the following topics of interest for the scientific programme: Foundations, Knowledge Representation, Problem Solving, Knowledge Acquisition and Learning, Communication, Perception and Robotics, Cognitive Modelling, Applications, Tools for AI Research. Deadline for full papers Jan.1, for position papers, March 1, 1986.

### COLING 86, Bonn

The 11th International Conference on Computational Linguistics will be held at the University of Bonn, Aug. 25–29, 1986. The Call for Papers lists the following topics:
Computational Linguistics in general, Syntax, Parsing, Language Generation, Semantics, Phonological and Morphosyntactical Analysis, Speech Analysis and Synthesis, Discourse Analysis, Machine Translation, Machine-aided Translation, Representation of Knowledge, Computational Models of Understanding, Linguistic Theories and Computational Models, Software Tools and Programming Languages for Computational Linguistics, Hardware for Natural Language Processing, Dictionaries, Lexical Data Bases. – Drafts of Papers (max.8000 words) were due by Dec.1, 1985. Final versions of Papers should be sent before May 1st 1986 to Prof.Dr.Winfried Lenders. Inst.f.Kommunikationsforschung und Phonetik d.Universität, Poppelsdorfer Allee 47, D-5300 Bonn 1.

### 2nd Catalan International Symposium on Statistics Barcelona, Spain, 18–19 Sept.1986

The Symposium is organized by CIDC (Consorci d'Informacio i Documentacio de Catalunya and CIRIT (Comissio Interdepartamental de Recerca i Innovacio Tecnologica) and is sponsored by Generalitat de Catalunya. Sessions will be devoted to seven topics, among which Time Series Analysis, Data Analysis and Analysis of Correspondences, Artificial Intelligence Applied to Statistics. For further information contact Eugènia Salvador and Olga Catasus, Consorci d'Informacio i Documentacio de Catalunya, Urgell, 187, 08036 Barcelona, Spain.

### Software Numbering System

A subcommittee of the American National Standards Committee Z 39 is developing a system for the numbering of software packages similar to the ISBN. The number will identify a central agency. The code will



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