



International Federation of Classification Societies Newsletter

President: Geoff McLachlan

Number 39

July, 2010

Editor: André Hardy

The International Federation of Classification Societies, founded in 1985, is composed of:

Associação Portuguesa de Classificação e Análise de Dados, British Classification Society, Central American and Caribbean Society of Classification and Data Analysis, Classification Society of North America, Gesellschaft für Klassifikation, Greek Society of Data Analysis, Irish Pattern Recognition and Classification Society, Japanese Classification Society, Korean Classification Society, Société Francophone de Classification, Società Italiana di Statistica, Statistical Society of Slovenia, Vereniging voor Ordinatie en Classificatie and Section of Classification and Data Analysis of the Polish Statistical Society.

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" and the journal "Advances in Data Analysis and Classification (ADAC)".

IFCS Homepage:

<http://www.classification-society.org/>

Designed and maintained by David Dubin.

The website contains among others:

the IFCS Constitution and By-Laws, the IFCS newsletters, and pointers to the websites of the member societies.

Contents

Words from the IFCS President
News from the IFCS Scientific Secretary
IFCS 2011
CHA - Application form
IFCS-sponsored courses
News from the Classification Society
News from CLAD
News from CLADAG
News from SFC
Joint Conference GfKI-CLADAG
CLADAG 2011
KDD 2010
A.S.I.5
Journal ADAC
New volumes in the series "Studies in Classification, Data Analysis, and Knowledge Organization"
New books
Obituary: Jean-Pierre Barthélemy

Words from the IFCS President May 2010

As this is my first column as President of IFCS, I would like to say how much I am looking forward to serving the Federation in this role.

I would like to take the opportunity to thank our Past-President, Buck McMorris, for the splendid job he has done as President for the past 2 years.

I would also like to take this opportunity to thank David Hand whose time on the Executive has come to an end now with the completion of his term as Past-President. We are very much grateful to David for his untiring efforts on the

Executive Committee over the past 6 years. Given that during some of this time David was also very busy as President of the Royal Statistical Society, he deserves special congratulations on his commitment to the IFCS.

I should also congratulate Iven van Mechelen on being elected the next President of the IFCS. I know that Iven has worked very hard as Treasurer for the IFCS and we are indeed fortunate to have him on board for another 6 years (2 as President-Elect, then 2 as President, and finally 2 as Past-President). His election success does mean that we need to find a new Treasurer.

One major item of business for the Executive Committee is next year's IFCS Conference to be held in St. Andrews, Scotland, from 11 to 15 July. At the end of a workshop on mixtures held in Edinburgh in early March, I made a site visit to the University of St. Andrews, along with Iven, Fionn Murtagh (the chair of the organizing committee), David Wishart (the local organizer), and Nema Dean. We have arranged to meet again in London later this month to discuss further the conference arrangements. The university town of St. Andrews is an ideal location for a conference and I would encourage you all to put this IFCS Conference into your calendar for 2011. Information on the conference can be found at: <http://www.st-andrews.ac.uk/business/ifcs2011/>

All the best and happy summer holidays ahead to those in the Southern Hemisphere,

Geoff McLachlan
IFCS President
gjm@maths.uq.edu.au

News from the IFCS Scientific Secretary – May 2010

Dear Colleagues and Friends of the Classification,

Here is a report on the activities run and the decisions taken by the IFCS Executive Committee (EC) and Council over the past few months:

1. IFCS'11 Conference in St. Andrews (Scotland): The 12th Biennial Conference of the IFCS will be organized by the British Classification Society and will take place in St. Andrews (Scotland) on 11-15 July 2011. Keep these dates in mind! The IFCS Executive Committee is working together with the IFCS'11 General Chair (Fionn Murtagh) and Local Organizing Committee (chaired by David Wishart) for setting up an unforgettable IFCS conference.

A first announcement with preliminary information is already available at:

<http://www.st-andrews.ac.uk/management/ifcs2011/>

More information and a call for papers will be distributed soon.

2. IFCS Elections: Early this year, the IFCS Election committee, chaired by Fionn Murtagh (other members were Ron Wehrens, Taerim Lee and Berthold Lausen) has taken care of organizing the IFCS election process. At the end of 2009, the position of President-Elect for the years 2010-2011 and then President in 2012-2013, and Past-President in 2014-2015 was to be filled.

The IFCS President election is based on the Constitution of IFCS (available at <http://www.classification-society.org/ifcscons.pdf>), and the IFCS Election Rules (available at <http://www.classification-society.org/ifcselect.pdf>).

The Election Committee asked the Presidents of the IFCS Member Societies for proposals regarding candidates. The Election Committee then contacted the nominated persons for their willingness to serve and election statements were obtained from them.

As an outcome of this election, Iven Van Mechelen is the new IFCS President-Elect.

Following these results, the IFCS Executive Committee is now made of:

Geoff McLachlan President till 31/12/11
g.mclachlan@uq.edu.au then Past President till 31/12/13

F.R. (Buck) McMorris - Past President till 31/12/11 - mcmorris@iit.edu

Iven Van Mechelen - President-Elect - 31/12/11

Iven.VanMechelen@psy.kuleuven.be

then President till 31/12/13

then Past President till 31/12/15

Vincenzo Esposito Vinzi -Scientific Secretary till 31/12/10 - vinzi@essec.fr

Iven Van Mechelen - Treasurer till 31/12/10

Iven.VanMechelen@psy.kuleuven.be

This position is indeed vacant taking into account the election of the current Treasurer Iven Van Mechelen as President-Elect. However, Iven Van Mechelen will still act as a Treasurer ad interim till a new election will be run.

André Hardy - Publication Officer till 31/12/11

Andre.Hardy@fundp.ac.be

Many thanks go to David Hand (outgoing member of the Executive Committee) for his endeavors and achievements over the past 6 years first as President-Elect, then President and finally Past-President of the IFCS.

3. News from Member Societies:

- Sekcja Klasyfikacji i Analizy Danych PTS (SKAD): Krzysztof Jajuga will be a SKAD representative in the IFCS Council for the next four years (until end of 2013);

- Greek Society of Data Analysis (GSDA): This Society presently consists of 122 members. The GSDA representative in the IFCS Council is George Menexes;

- The Classification Society (CS): The President of CS is Bill Shannon (since January 2010), while the CS representative in the IFCS Council is Fionn Murtagh.

Finally, please have a look at the IFCS website (www.classification-society.org) for the latest news on member societies, the journals officially supported by the IFCS (Journal of Classification – JoC, and Advances in Data Analysis and Classification - ADAC) and up-to-date information on the IFCS Council composition with contact details of member societies.

I take this opportunity to wish all of you nice and relaxing summer holidays!

Vincenzo Esposito Vinzi
IFCS Scientific Secretary

IFCS 2011

University of St Andrews, Scotland
Monday 11 July – Friday 15 July 2011

Conference website:

<http://www.st-andrews.ac.uk/ifcs2011>

IFCS 2011 Schedule

Monday 11 July 2011, Tutorials morning session, afternoon session.

Monday 11 July 2011, evening, Registration and informal Get-Together.

Tuesday 12 July 2011, morning, Opening Address and full programme.

Tuesday 12 July 2011, afternoon, full programme.

Tuesday 12 July 2011, evening, Welcome Reception.

Wednesday 13 July 2011, morning, full programme.

Wednesday 13 July 2011, afternoon, social programme.

Wednesday 13 July 2011, evening, Whisky Tasting.

Thursday 14 July 2011, full programme.

Thursday 14 July 2011, evening, Conference Banquet.

Friday 15 July 2011, morning, full programme.

Invited Speakers and Sessions with Organizers

[C.J. \(Keith\) van Rijsbergen](#) on clustering and classification in information retrieval.

More to follow.

1. The Philosophy of Clustering (Christian Hennig)
2. Educational Data Mining (Nema Dean)
3. Data Analysis Methodology in Bourdieu (Mike Grenfell)

4. Aspects of Computational Perception in Vision and Text (Fred Stentiford)
5. Learning with a Human-in-the-Loop (Brian Mac Namee)
6. Tree-Based Classifiers (Eugene Gatnar)
7. Ensemble Methods in Classification (Eugene Gatnar)
8. Clustering of High Dimensional Data (Iven van Mechelen)
9. Kolmogorov Complexity, Session in Honour of Chris Wallace and Ray Solomonoff (Alex Gammerman)

More soon!

IFCS 2011 Registration

Early Bird: Up To 1 April 2011

Early Bird Registration with/without Accommodation (4 days/4 nights)

IFCS member society member £ 475 / £ 250

IFCS non-member £ 525 / £ 300

IFCS member society student £ 430 / £ 220

Late Registration with/without Accommodation (4 days/4 nights)

IFCS member society member £ 525 / £ 300

IFCS non-member £ 575 / £ 350

IFCS member society student £ 460 / £ 250

Publications

Planned are special issues of both the [Journal of Classification](#) and [Advances in Data Analysis and Classification](#). More details will be provided later.

IFCS 2011 Programme Committee and Local Organizing Committee

General Chair Programme Committee

Fionn Murtagh, Science Foundation Ireland, and Royal Holloway, University of London

Local Organizing Committee Chair

David Wishart, University of St Andrews

Programme Committee

1. Helena Bacelar Nicolau (University of Lisbon, Portugal)
2. Mark de Rooij (University of Leiden, the Netherlands)
3. Nema Dean (University of Glasgow, Scotland)
4. Anuska Ferligoj (University of Ljubljana, Slovenia)
5. David Hand (Imperial College, London, England)
6. Krzysztof Jajuga (Wroclaw University of Economics, Poland)
7. Berthold Lausen (University of Essex, England)
8. Eugeniusz Gatnar (Karol Adamiecki University of Economics in Katowice, Poland)
9. Mike Grenfell (Trinity College Dublin, Ireland)
10. Christian Hennig (University College London, England)
11. Brian MacNamee (Dublin Institute of Technology, Ireland)
12. Geoff McLachlan (University of Queensland, Australia)
13. Buck McMorris (Illinois Institute of Technology, USA)
14. Boris Mirkin (Birkbeck, University of London, and Moscow, Russia)
15. Masahiro Mizuta (Hokkaido University, Sapporo, Japan)
16. Clive Moncrief (Natural History Museum, London)
17. Angela Montanari (University of Bologna, Italy)
18. Fionn Murtagh (Science Foundation Ireland, Ireland; and Royal Holloway, University of London, England) (Chair)

19. Rebecca Nugent (Carnegie Mellon University, USA)
20. Akinori Okada, Tama University, Tokyo, Japan
21. Iven van Mechelen (Leuven University, Belgium)
22. Fred Stentiford (UCL, London, England)
23. Javier Trejos (University of Costa Rica, Costa Rica)
24. Gilles Venturini (University of Tours, France)
25. Maurizio Vichi (University of Rome, Italy)
26. Ron Wehrens (University of Nijmegen, the Netherlands)
27. Claus Weihs (University of Dortmund, Germany)

Local Organizing Committee

- Pedro Contreras, Royal Holloway, University of London, England
- Nema Dean, Glasgow University, Scotland
- Stephen Evans, University of St Andrews, Scotland
- Christian Hennig (University College London, England)
- Fionn Murtagh (Science Foundation Ireland, Ireland; and Royal Holloway, University of London, England)
- David Wishart (Chair), University of St Andrews, Scotland

**International Federation of
Classification Societies (IFCS)
Chikio Hayashi Awards Program
(CHA) - Application Form –**

Some Rules on Submitting an Application

Researchers and persons who want to apply for a CHA award, for the occasion of the IFCS’11 Conference (Saint Andrews, July 11-15, 2011), need to submit their application to the Chair of the Awards Committee (Dr. Gilles Celeux at the e-mail address: Gilles.Celeux@inria.fr).

All candidates must be under the age of 35 years at the time of the conference and need to be

authors of a paper to be presented at the IFCS Conference.

All candidates will be notified the evaluation results no later than May 20th, 2011.

Deadline

March 30th, 2011 is the deadline for the submission of applications to the Chair of the Awards Committee.

Candidate’s Application Form

Name: _____

Date of birth: _____

Address: _____

Phone: _____

Fax: _____

E-mail: _____

The location from which the candidate would travel to the IFCS’11 Conference:

The candidate's memberships in IFCS Member Societies: _____

The candidate's experience, expertise or education in classification, data analysis and related areas and contributions to these domains including any publications (with full references): _____

Type of paper submitted by the candidate at the IFCS 2011 conference:

invited paper contributed paper

Title of the paper submitted by the candidate at the IFCS 2011 conference:

IFCS-sponsored courses: Call for applications

In its meeting at the Dresden conference, the IFCS Council has adopted a proposal from the IFCS Executive Committee to sponsor each year one course on IFCS-related topics. **The call for applications is now open!** All individual members of the IFCS member societies are invited to consider submitting a proposal. Below, one may find the rules for sponsoring as approved by the IFCS Council.

- Eligible for sponsoring by IFCS are courses:
 - open for an international audience, in the English language, on topics within the domains of classification and data analysis as those may be typically encountered in the mainstream of IFCS conferences
 - that are supported by at least two IFCS member societies (as made clear by the explicit mentioning of members from those societies in the organizing committee)
 - that are attended by participants from at least two IFCS member societies
 - that are non-profit (in the sense that no financial gain is aimed at by the organizers)
- Pre IFCS conference workshops are excluded from sponsoring.
- Sponsoring can only be used to cover costs directly pertaining to the

organization of the course (e.g., for lecture rooms, announcements, travel costs, etc.), herewith excluding financing of teachers (except for a reimbursement of expenses). In addition to financial sponsoring, IFCS will mention the course on its website and in other media, if possible. Conversely, in all announcements of the course, IFCS has to be mentioned as sponsor.

- Requests for sponsoring shall be made to the President of IFCS by the organizer of the course, at least 6 months before the course starts. The request should contain:
 - A description of the aim of the course
 - A preliminary program of the course
 - A list of the IFCS member societies involved in the organization of the course as well as the composition of the organizing committee, which should include an IFCS Council member from a society not involved in the organization of the course
 - A description of the size and kind of the intended audience
 - A detailed budget for the course, including the height of the fees, and the amount requested from IFCS
- Decisions on sponsoring shall be made by the IFCS Executive Committee.
- Each budgetary year, only one course can be sponsored, with a maximum amount of \$750. In this respect, the dates of the course determine with which budgetary year the course is associated.
- If the local situation of the course organizers allows to apply for matching funds, the organizers are encouraged to make use of this possibility; if needed, upon request of the organizers, the IFCS Executive Committee will state that IFCS sponsoring is granted conditional upon the awarding of matching funds.
- The sponsoring is paid after the course, upon receipt of a report on the course (mentioning at least the topics on the program, the number of participants and their countries of residence, as well as the

number of days the course lasted), and a full financial account.

Iven Van Mechelen
Acting IFCS Treasurer

News from the Classification Society

CLASSIFICATION SOCIETY Annual MEETING 2010, St. Louis, June 17-19

The 2010 Annual Meeting of the Classification Society will be held on June 17-19 at the Washington University School of Medicine, Washington University, St. Louis, Missouri. The local host is Bill Shannon (wshannon@wustl.edu); the organizing committee includes Samantha Bates-Prins (prinssc@jmu.edu), Dave Dubin (ddubin@illinois.edu), Doug Steinley (steinleyd@missouri.edu), and Erin Tanenbaum (Erin.Tanenbaum@nielsen.com). This is an excellent chance to bring your colleagues together to learn what they have been doing for the last year and share ideas.

Please see the Web page <http://www.classification-society.org/cs10/> for registration and abstract submission or contact Bill Shannon (314-704-8725, wshannon@wustl.edu).

CLASSIFICATION SOCIETY DISSERTATION AWARD 2010

Classification Society Awards Committee chair Samantha Bates Prins (Assistant Professor, Math & Statistics Dept., James Madison University, Harrisonburg, Virginia) reports: The 2010 Distinguished Dissertation Award winner is Dr. Daniel Aloise for his dissertation "Exact Algorithms for Minimum Sum-of-Squares Clustering" defended at the University of Montreal under supervision of Professors Louis-Martin Rousseau and Pierre Hansen in June, 2009.

Dr. Petri Kontkanen received an Honorable Mention for his thesis "Computationally Efficient Methods for MDL-Optimal Density Estimation and Data Clustering" defended at the University of Helsinki, Finland.

All five nominations were of excellent quality and are listed at <http://www.classification-society.org/csna>.

In 2010 the Award totals US\$500 in book vouchers from Chapman and Hall/CRC and the winner is invited to make a presentation in a special plenary session at the Classification Society's 2010 Annual Meeting.

Stan Sclove, Secretary

News from CLAD

The XVII Annual Conference of the Portuguese Association of Classification and Data Analysis, JOCLAD2010, was held from 25th to 27th March, 2010 at ISCTE-Lisbon University Institute, Lisbon, organized by the Department of Quantitative Methods, ISCTE-LUI.

The meeting was attended by about 100 participants.

Around 55 papers and 20 posters were presented covering a broad range of topics.

Invited speakers were: Wolfgang Gaul (University of Karlsruhe, Germany), Gunter Ritter (University of Passau, Germany), Ana Fred (Technical University of Lisbon, Portugal) and Pedro Duarte Silva (Portuguese Catholic University).

Four thematic sessions were organized on "New Developments in PCA" (Fernanda Sousa, University of Oporto), "Applications of Data Mining in Business and Finance" (Carlos Soares, University of Oporto), "Applications of Data Mining and Geospatial Clustering" (Victor Lobo, Portuguese Naval School / New University of Lisbon) and "Applications of Classification and Data

Analysis in Health Sciences” (Helena Bacelar-Nicolau, University of Lisbon).

There were two pre-conference short courses, taught by Carlos Soares and Ana Fred. Further information may be found on the web site <http://joclad2010.dmq.ibs.iscte.pt>

The next XVIII Annual Conference of the Portuguese Association of Classification and Data Analysis, JOCLAD2011, is expected to take place at the University of Trás-os-Montes e Alto Douro (UTAD), Vila Real, organized by the Department of Mathematics, from 6 to 9 April.

Helena Bacelar-Nicolau
hbacelar@fp.ul.pt

News from CLADAG

Reporting result of election for the Scientific Council of CLADAG

The election of the Scientific Council of the CLAssification and Data Analysis Group (CLADAG) of the Italian Statistical Society took place in Catania, during the seventh Scientific Meeting of the Group. As a result of this election, the CLADAG Scientific Council is composed of the following members:

President: Andrea Cerioli, University of Parma

President-elect: Francesco Palumbo, University of Naples "Federico II"

Member: Paolo Giudici, University of Pavia

Member: Salvatore Ingrassia, University of Catania

Member: Donatella Vicari, University of Rome "La Sapienza"

The Scientific Council also appointed Angela Montanari (University of Bologna) and Maurizio Vichi (University of Rome "La Sapienza") as CLADAG representatives in the IFCS Council.

Tenure is until September 2011

Publications

CLADAG announces the publication of the volume *Data Analysis and Classification* by F. Palumbo, C. N. Lauro and M. J. Greenacre (Eds.)

<http://www.springer.com/statistics/business%2C+economics+%26+finance/book/978-3-642-03738-2> in the Springer Series Studies in Classification, Data Analysis, and Knowledge Organization. This volume contains revised versions of selected papers presented at the 6th scientific meeting of CLADAG, held at the University of Macerata.

The volumes

Classification and Multivariate Analysis for Complex Data Structures (by B. Fichet, D. Piccolo, R. Verde and M. Vichi, Eds.)

<http://www.springer.com/statistics/statistical+theory+and+methods/book/978-3-642-13311-4>

and *New Perspectives in Statistical Modeling and Data Analysis* (by S. Ingrassia, R. Rocci, and M. Vichi, Eds.)

<http://www.springer.com/statistics/statistical+theory+and+methods/book/978-3-642-11362-8>

are also expected to appear soon in the same Series.

Andrea Cerioli

News from SFC

Election

- Mohamed Nadif (University Paris-Descartes, France) has been elected as Vice-President of the SFC
- Marcel Rémon (University of Namur, Belgium) has been elected as Vice-President of the SFC.

The other members of the Executive Committee are

- Gilles Venturini (University of Tours, France) (President)
- François-Xavier Jollois (University of Paris-Descartes, France) (Treasurer)

- Guillaume Cleuziou (University of Orléans, France) (Editor of the SFC Newsletter)
- André Hardy (University of Namur, Belgium) (Secretary).

**André Hardy,
SFC Secretary**

Joint Conference GfKI/CLADAG at the University of Florence, September 8-10, 2010

As announced in the previous Newsletter 38, the Classification and Data Analysis Group of the Italian Statistical Society CLADAG will hold its annual meeting this year jointly with its German counterpart GfKI. We are looking forward to an interesting conference with four invited speakers, 12 invited and seven contributed sessions, and more than 100 contributed talks. The conference serves at the same time as the Fall Meeting of the Working Group for Data Analysis and Numerical Classification, AG-DANK, of the GfKI.

(A) Invited Speakers

P1: Vincenzo Esposito Vinzi (ESSEC,

France) "Knowledge Extraction by Modeling"

P2: Roberto Rocci (U. Roma Tor Vergata, Italy) "Model-based Clustering"

P3: Marcus Weber (Zuse Institute Berlin, Germany) "Adaptive Spectral Clustering"

P4: Anne-Laure Boulesteix (University of Munich, Germany) "Critical Issues and Developments in Microarray-based Prediction"

(B) Invited Sections and their organizers and speakers

S1: Data Stream Mining (Antonio Iripino, II U. Napoli, Italy)

Antonio Balzanella / Rosanna Verde (II U. Napoli, Italy) "Structural Drift Detection over Multiple Datastreams"

Fabrice Clerot / Pascale Gouzien (Orange Labs, France) "Information-based Data Stream Summary"

Frank Klawonn (U. Ostfalia, Germany) "Tests for Change Detection Based on Incremental Quantile Estimation"

S2: Statistical Matching: Theory and Applications to Data Mining and Official Statistics (Nicola Torelli, U. Trieste, Italy)

Susanne Raessler (U. Bamberg, Germany) TBA

Mauro Scanu et al. (ISTAT, Italy) TBA

Peter Van der Putten (Leiden Institute of Advanced Computer Science, The Netherlands) "Data Fusion for Direct Marketing"

S3: Social Networks and Classification (Maria Rosaria D'Esposito, U. Salerno, Italy)

Ulrik Brandes (U. Konstanz Germany) Classification in Network Ensembles using Latent Roles

Anuska Ferligoj (U. Ljubljana, Slovenia)

"Developments in Blockmodeling"

Giuseppe Giordano / Maria Prosperina Vitale (U. Salerno, Italy) "Clustering Social Actors by using Auxiliary Information on Relational Data"

S4: Challenges and Advances in Statistical Spatial Data Analysis (Alessandra Petrucci, U. Firenze, Italy)

Martin Behnisch / Alfred Ultsch (ETH Zürich Institut für Denkmalpflege und Bauforschung, Switzerland / U. Marburg, Germany) "Urban Knowledge Discovery - Swiss Population Development by 15 decades"

Barbara Cafarelli (U. Foggia, Italy) "A study of the spatial distribution of durum wheat grain weight for the creation of agronomic field maps: a comparison of different prediction methods"

Monica Pratesi (U. Pisa, Italy) "Spatial models in Small Area Estimation"

S5: Recent Developments in Recursive Partitioning Methods (Marilena Pillati, U. Bologna, Italy)

Hans-Hermann Bock (U. RWTH Aachen, Germany) "An Iterative Fuzzy Clustering Method for Time Series"

Claudio Conversano (U. Cagliari, Italy) "Evaluating the Performance of Different Sets of Classifiers in Multiclass Learning"

Roberta Siciliano (U. Napoli Federico II, Italy) "Recursive Partitioning for Classification and Regression Trees"

S6: Robust Statistical Methods for Data Analysis: Methodological Innovations and Applications (Luigi Grossi, U. Verona Italy)

Giuseppe Cavaliere (U. Bologna, Italy) "Inference in Autoregressive Models with Multiple Outliers"

Robert Hable (U. Bayreuth, Germany) "Robustness Versus Consistency in Ill-posed Classification and Regression Problems"

Davide Ferrari (U. Modena-Reggio Emilia, Italy) "On Robust Estimation via Pseudo-additive Information"

S7: Data Visualization (Christian Hennig, UCL, UK)

Alex Gribov (U. Augsburg Germany) "Visualization of clustering comparisons with confusion matrices in Seurat"

Joachim Mucha (WIAS Berlin, Germany) "Visualisation of cluster analysis results"

Luca Scrucca (U. Perugia, Italy) "Some recent advances on dimension reduction for high-dimensional data"

S8: Opinion Mining and Preference Analysis (Reinhold Decker, U. Bielefeld Germany)

Giuseppe Giordano (U. Salerno, Italy) "On the Use of Multivariate Multiple Regression Models in the Elicitation of Consumer Preferences"

Maria Iannario / Domenico Piccolo (U. Napoli, Italy) "A Model-based Approach for Qualitative Assessment in Opinion Mining"

Diana Schindler / Lars Lüpke (U. Bielefeld, Germany) "Preference Analysis for durable goods - Some Remarks on Data Consistency and Empirical Results"

S9: Classification in Systems Biology I (Berthold Lausen, U. Essex, UK)

Emanuela Dreassi (U. Firenze, Italy) "A shared components model to detect uncommon risk factors in disease mapping"

Hans Kestler (U. Ulm, Germany) TBA

Metodi Metodiev (U. Essex, UK) TBA

S10: Statistical Signal Analysis (Claus Weihs, TU Dortmund, Germany)

Markus Eichhoff (U. Dortmund, Germany) "Musical Instrument Detection based on Extended Feature Analysis"

Klaus Friedrichs (U. Dortmund, Germany)

"Auralization of auditory models"

Elvira Romano (U. Napoli, Italy) "Spatially Constrained Curve Clustering: a Hierarchical Approach to Signals Analysis"

S11: Classification in Systems Biology II (Berthold Lausen, U. Essex, UK)

Axel Benner (German Cancer Research Center, Heidelberg, Germany) "Penalized Likelihood Approaches for High-dimensional Model Selection"

Federico Stefanini (U. Firenze, Italy) "Graphical models for eliciting structural information"

Markus Göker (DSMZ, Braunschweig, Germany) TBA

S12: Web Data Mining (Lars Schmidt-Thieme, U. Hildesheim, Germany)

Furio Camillo / Federico Neri (U. Bologna, Italy / U. Pisa, Italy) "A knowledge mining study about the Italian Prime Minister web image using textual sentiment mining techniques"

Wolfgang Gaul (U. Karlsruhe Germany) TBA

Thai-Nghe Nguyen (U. Hildesheim, Germany) "Evaluation Metric for Learning from Imbalanced Data Based on Asymmetric Beta Distribution"

(C) Proposed Self-Organized Sessions and their organizers.

Z1: Multivariate Analysis for Relational Data (Giuseppe Giordano, U. Salerno, Italy)

Z2: Developments in Archetypal Analysis (Francesco Palumbo, U. Napoli, Italy)

Z3: Advances in Latent Class Modelling (Leonardo Grilli, U. Firenze, Italy)

Z4: Model Selection Problems in Kernel-Based Methods with Applications (Hamparsum Bozdogan, U. Tennessee, USA)

Z5: Methodology and applications of latent class and mixture models (Carla Rampichini, U. Firenze, Italy)

Z6: Recents trends in classification (André Hardy, U. Namur, Belgium)

Z7: Correspondence Analysis and Related Methods (Michael Greenacre, U. Pompeu Fabre, Barcelona, Spain / Jörg Blasius U. Bonn, Germany / Simona Balbi, U. Napoli, Italy)

The period for submitting talks has expired beginning of May and there are 95 applications.

For further information, please contact

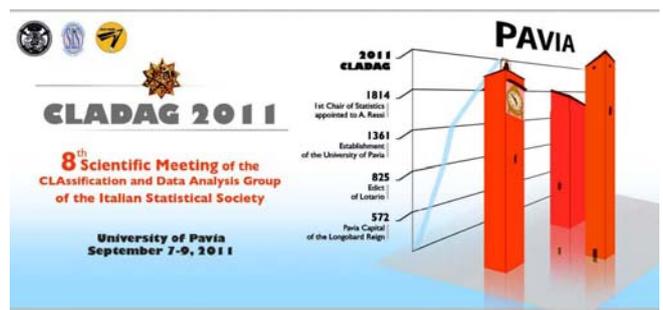
gfk_ladag2010@ds.unifi.it

and see our website

<http://gfk-cladag.ds.unifi.it>

Antonio Giusti and Gunter Ritter

CLADAG 2011 Pavia, Italy, September 7-9, 2011



The 8th International Meeting of the CLAssification and Data Analysis Group (CLADAG) of the Italian Statistical Society will be hosted by the University of Pavia within the celebration of its 650th anniversary. The Meeting will take place on September 7-9, 2011. Researchers interested in classification, clustering, data analysis, multivariate analysis

and computational statistics and their applications are invited to participate.

A Symposium on "REPUTATION: A STATISTICAL CHALLENGE?" will also take place within the Conference. This session will be devoted to listen, discuss and understand how statistical methods can help quantifying this central topic of today society. In the session experts will discuss how to practically major reputation in different fields such as University, Finance and Health.

People who wish to submit a paper should send a tentative title by **January 31, 2011** by filling in the on-line form. A short paper should be sent to the Scientific Committee by **April 5, 2011** - guidelines will be available on the conference web site. Short Papers will be refereed and accepted manuscripts will be published in a Book of Short Papers. After the meeting a selection of extended papers will be published in a Proceedings volume by Springer in the series "Studies in Classification, data Analysis and Knowledge Organization".

Detailed information will be available in due course through the conference web site <http://www.cladag2011.it/>

Contacts:

Chair of the Local Organizing Committee: Prof. Paolo Giudici (University of Pavia) paolo.giudici@unipv.it

Chair of the Scientific Program Committee: Prof. Salvatore Ingrassia (University of Catania) s.ingrassia@unict.it

Organizing Secretariat: Ms. Silvia Ferrari (Pragma Congressi) silvia.ferrari@pragmacongressi.it

KDD-2010

Call for Participation - 16th ACM SIGKDD Conference on Knowledge Discovery and Data Mining (KDD-2010)

July 25-28, 2010 - Washington, DC

<http://www.kdd.org/kdd2010/>

Key Dates

Early registration deadline: May 15, 2010

Regular registration deadline: June 30, 2010

Registration:

<http://www.kdd.org/kdd2010/registration.shtml>

Accepted Papers:

<http://www.kdd.org/kdd2010/papers.shtml>

Workshops:

<http://www.kdd.org/kdd2010/workshops.shtml>

Tutorials:

<http://www.kdd.org/kdd2010/tutorials.shtml>

KDD Cup:

<http://www.kdd.org/kdd2010/kddcup.shtml>

The 16th ACM SIGKDD Conference on Knowledge Discovery and Data Mining will be held in Washington, DC on July 25-28, 2010. KDD is the premier international forum for data mining researchers and practitioners from academia, industry, and government to share their ideas, research results and experiences. KDD-2010 will feature keynote presentations, oral paper presentations, poster sessions, workshops, tutorials, panels, exhibits, demonstrations, and the KDD Cup competition.

PAPERS

The conference will feature 102 Research Track papers and 20 Industrial and Government Track papers. In addition to oral presentations, all papers will be showcased during evening poster sessions. Full details are available at <http://www.kdd.org/kdd2010/papers.shtml>.

WORKSHOPS

- * Mining and Learning with Graphs Workshop 2010 (MLG-2010)
- * Large-scale Data Mining: Theory and Applications (LDMTA-2010)
- * Useful Patterns (UP)
- * Social Media Analytics (SOMA 2010)
- * KDD Cup 2010: Improving Cognitive Models with Educational Data Mining (KDD Cup 2010)
- * 9th International Workshop on Data Mining in Bioinformatics (BIOKDD10)
- * Tenth International Workshop on Multimedia Data Mining (MDMKDD 2010)

- * The Fourth International Workshop on Data Mining and Audience Intelligence for Online Advertising (ADKDD'10)
- * Human Computation Workshop (HCOMP 2010)
- * ACM SIGKDD Workshop on Intelligence and Security Informatics (ISI-KDD)
- * The 4th International Workshop on Knowledge Discovery from Sensor Data (SensorKDD)
- * The 4th SNA-KDD Workshop on Social Network Mining and Analysis (SNAKDD 2010)
- * Novel Data Stream Pattern Mining Techniques (StreamKDD)
- * Discovering, Summarizing and Using Multiple Clusterings (MultiClust)

TUTORIALS

- * Large-scale Data Mining: MapReduce and Beyond; Jimeng Sun (IBM Research), Spiros Papadimitriou (IBM Research), Rong Yan (Facebook)
- * New Developments in the Theory of Clustering; Sergei Vassilvitskii (Yahoo! Research), Suresh Venkatasubramanian (U. of Utah)
- * Temporal Pattern Mining in Symbolic Time Point and Time Interval Data; Fabian Moerchen (Siemens Corporate Research)
- * A Tutorial on Learning through Exploration; Alina Beygelzimer (IBM Research), John Langford (Yahoo! Research)
- * Geometric Tools for Graph Mining of Large Social and Information Networks; Michael W. Mahoney (Stanford)
- * Mining Web Search and Browse Logs: Challenges, Methods, and Applications; Daxin Jiang (Microsoft Research Asia), Jian Pei (SFU), Hang Li (Microsoft Research Asia)
- * Privacy-aware Data Mining in Information Networks; Kun Liu (Yahoo! Research), Gerome Miklau (UMass), Jian Pei (SFU), Evimaria Terzi (Boston U.)
- * Introduction to Graphical Models for Data Mining; Arindam Banerjee (U. of Minnesota)
- * Mining Heterogeneous Information Networks; Jiawei Han (UIUC), Yizhou Sun (UIUC), Xifeng Yan (UCSB), Philip S. Yu (UIC)
- * Outlier Detection Techniques; Hans-Peter Kriegel (LMU Munich), Peer Kroger (LMU Munich), Arthur Zimek (LMU Munich)
- * Recommender Problems for Web Applications; Deepak Agarwal (Yahoo! Research), Bee-Chung Chen (Yahoo! Research)

* Indexing and Mining Time Sequences; Christos Faloutsos (CMU), Lei Li (CMU)

REGISTRATION

<http://www.kdd.org/kdd2010/registration.shtml>

We hope to see you in Washington, DC!

5th International Meeting « Implicative Statistical Analysis » (A.S.I. 5) - Palerme (Italy), November 5-7, 2010.

Department of mathematics and applications.

University of Palerme

President of the scientific and programme committee : Jean-Claude Régnier (University of Lyon) (jean-claude.regnier@univ-lyon2.fr)

President of the organizing committee : Filippo Spagnolo (University of Palerme) (spagnolo@math.unipa.it)

Honour President : Régis Gras (University of Nantes) - regisgra@club-internet.fr

<http://sites.univ-lyon2.fr/asi5%20>

Journal "Advances in Data Analysis and Classification (ADAC)"

In its third issue of volume 3 (2009) the journal 'Advances in Data Analysis and Classification (ADAC)' published nine articles presented during the IFCS conference 2009 in Dresden, namely:

- Francois Brucker, Alain Gely:
Parsimonious cluster systems
- Francois Bavaud
Aggregation-invariance in general clustering
- Véronique Cariou
Comparison of three hypothesis testing approaches for the selection of the appropriate number of clusters of variables

- Christoforos Anagnostopoulos, Dimitris K. Tasoulis, Niall M. Adams, David J. Hand
Temporally adaptive estimation of logistic classifiers on data streams
- Domenico Perrotta, Marco Riani, Francesca Torti
New robust dynamic plots for regression mixture detection
- Stephan Dlugosz, Ulrich Müller-Funk
The value of the last digit – fraud detection with digit analysis
- Jean Diatta
On critical sets of a finite Moore family: the case of weak hierarchies
- Bernard Fichet
Metrics of L_p -type and distributional equivalence principle
- Yoshio Takane, Sunho Jung
Tests of ignoring and eliminating in nonsymmetric correspondence analysis

The first issue of volume 4 (2010) of ADAC contains the following articles:

- Christian Hennig
Methods for merging Gaussian mixture components
- Hye Won Suk, Heungsun Hwang:
Regularized fuzzy clusterwise ridge regression
- Genane Youness, Gilbert Saporta:
Comparing partitions of two sets of units based on the same variables
- Florian Frommlet
Tag SNP selection based on clustering according to dominant sets found using replicator dynamic

The next issue 2/3 (2010) of ADAC will be a Special Issue on 'Robust methods in classification and multivariate analysis' with guest editors Andrea Cerioli, Marco Riani, and Peter J. Rousseeuw.

H.-H. Bock

New volumes in the series 'Studies in Classification, Data Analysis, and Knowledge Organization'

This Springer book series typically contains Proceedings of conferences of IFCS and its Member Societies, see www.springer.com/series/1564. In 2009 and 2010 the following volumes have been published:

Hermann Locarek-Junge, Claus Weihs (eds.):
Classification as a Tool for Research.
Proc. 11th Conference of the International Federation of Classification Societies (IFCS-09), University of Dresden, Germany, March 13-18, 2009. Springer-Verlag, Heidelberg-Berlin, 2010, 750 pp. ISBN 978-3-642-10744-3

Francesco Palumbo, Carlo N. Lauro, Michael J. Greenacre (eds.):
Data Analysis and Classification.
Proc. 6th Annual Conference of the Classification and Data Analysis Group in the Società Italiana di Statistica, Università di Macerata, September 12-14, 2007. Springer-Verlag, Heidelberg-Berlin, 2010, 482 pp. ISBN 978-3-642-03738-2.

Andreas Fink, Berthold Lausen, Wilfried Seidel, Alfred Ultsch (eds.):
Advances in Data Analysis, Data Handling and Business Intelligence.
Proc. 32nd Annual Conference of the Gesellschaft für Klassifikation, Helmut-Schmidt University Hamburg, July 16-18, 2008. Springer-Verlag, Heidelberg-Berlin, 2010, 791 pp. ISBN 978-3-642-01043-9

Akinori Okada, Tadashi Imaizumi, Wolfgang Gaul, Hans-Hermann Bock (eds.):
Cooperation in Classification and Data Analysis.
Proc. of two German-Japanese Symposia in Tokyo and Berlin. Springer-Verlag, Heidelberg-Berlin, 2009. 220 pp. ISBN 978-3-642-00667-8

H.-H. Bock

New books

Interdisciplinary Mathematical Sciences - Vol. 10

ORDINAL AND RELATIONAL CLUSTERING (With CD-ROM)

by Melvin F Janowitz (Rutgers University, USA)

Most modern textbooks on cluster analysis are written from the standpoint of computer science, which give the background, description and implementation of computer algorithms. This book proclaims several firsts: . the first to present a broad mathematical treatment of the subject, the

first that illustrates dissimilarities taking values in a poset, and the first to notice the connection with formal concept analysis which is a powerful tool for investigating hidden structures in large data sets.

This book presents the subject from a mathematical viewpoint with careful definitions. All clearly stated axioms are illustrated with concrete examples. New ideas are introduced informally first, and then in a careful, systematic manner. Much of the material has not previously appeared in the literature. It is to be hoped that the book holds promising directive to launch a new research area that is based on graph theory, as well as partially ordered sets. It also suggests the cluster algorithms that can be used for practical applications. The emphasis will be largely on ordinal data and ordinal cluster methods.

Contents:

- * Informal Background
- * Dissimilarities and Clusters
- * Ordinal Data
- * Continuity and Ordinal Continuity
- * Classification of Monotone Equivariant

Cluster Methods

- * Clustering Based on Posets
- * A New Poset Model

Readership: Graduate students and researchers in mathematics, computer science, statistics, operations research, psychology and biology.

189pp Pub. date: May 2010

ISBN: 978-981-4287-20-3; 981-4287-20-2

US\$52 / 34

Orders received by August 31, 2010 will receive a 30% discount if you mention the code ORC10

Sparse Image and Signal Processing Wavelets, Curvelets, Morphological Diversity

by Jean-Luc Starck (CEA, France), Fionn Murtagh (SFI, Dublin and RHUL, London) and Jalal Fadili (Caen, France) - Cambridge University Press, 2010

This book presents the state of the art in multiresolution and multiscale image and signal processing. Included here are the wavelet transform, the curvelet transform and others such as the multiscale transforms based on the median and mathematical morphology operators. Matlab and some IDL code accompanies the methods and applications throughout. The software is available on an associated web site and illustrates the idea of reproducible research – the “what” and the “why” are described in detail, together with the “how”. Domains of application range widely over astronomy, biology, physics, digital media, forensics, and other areas. Image analysis on the sphere, for the geosciences, is a particular high point of note. So too is the discussion of inpainting, i.e. filling in large area gaps in the image data. The discussion of compressed sampling in the final chapter, other than being applied to space data, betokens a possible paradigm shift in signal processing – implying that previous limits to information extraction can be overcome in very significant ways.

Contents

1. Introduction to the world of sparsity
2. The wavelet transform
3. Redundant wavelet transform
4. Nonlinear multiscale transforms
5. The ridgelet and curvelet transforms
6. Sparsity and noise removal
7. Linear inverse problems

8. Morphological diversity
9. Sparse blind source separation
10. Multiscale geometric analysis on the sphere
11. Compressed sensing.

The following Handbook appeared recently in the series of the Springer Handbooks of Computational Statistics:

"Handbook of Partial Least Squares: Concepts, Methods and Applications"

V. Esposito Vinzi, W.W. Chin, J. Henseler, H. Wang (Eds.)

This Handbook offers an up-to-date review of the most recent advances in Partial Least Squares methodology and their applications.

It is addressed to both researchers and practitioners as it provides a complete and comprehensive overview of the field while focusing both on statistical methodology and selected real world problems.

A few tutorials focus on some key aspects of PLS analysis with a didactic approach.

More information is available at: <http://www.springer.com/statistics/computational+statistics/book/978-3-540-32825-4>

Statistical Implicative Analysis - Theory and Applications

Series: [Studies in Computational Intelligence](#) Vol. 127

Gras, R.; Suzuki, E.; Guillet, F.; Spagnolo, F. (Eds.) - 2008, XVI, 514 p. 147 illus.,

Hardcover

ISBN: 978-3-540-78982-6

[Online version available](#)

Statistical implicative analysis is a data analysis method created by Régis Gras almost thirty years ago which has a significant impact on a variety of areas ranging from pedagogical and psychological research to data mining. Statistical implicative analysis (SIA) provides a framework for evaluating the strength of implications; such

implications are formed through common knowledge acquisition techniques in any learning process, human or artificial. This new concept has developed into a unifying methodology, and has generated a powerful convergence of thought between mathematicians, statisticians, psychologists, specialists in pedagogy and last, but not least, computer scientists specialized in data mining.

This volume collects significant research contributions of several rather distinct disciplines that benefit from SIA. Contributions range from psychological and pedagogical research, bioinformatics, knowledge management, and data mining.

Written for:

Engineers, researchers, and graduate students in computational intelligence and computer science

“Analyse statistique implicative”

R. Gras, J-C Régnier, F. Guillet (Eds)

RNTI E16, 2009

ISBN : 978-2-85428-897-1, 510p.

Obituary

The International Federation of Classification Societies is deeply saddened to learn of the death of **Professor Jean-Pierre Barthélemy**, two years after his retirement. Professor Barthélemy was formerly professor of Computer Science, Discrete Mathematics and Cognitive Science at Télécom Bretagne. He contributed significantly to the scientific influence of Société Francophone de Classification (SFC) and has strengthened the links between the SFC and the IFCS, especially when he was President of the Société Francophone de Classification (1994 and 1995). With his team, he organized the first meeting of SFC at Télécom Bretagne in Brest on september 10-11th, 1992. Among his scientific contributions, many of them are outstanding papers, related either to practical or theoretical issues. These contributions concern research areas such as graphs, lattices, metrics, clustering

structures, algorithmic complexity, as well as decision theory in collaboration with researchers of Centre d'Analyse et de Mathématique Sociales in Paris. He was co-author of several books, as for example the recent book entitled « Elements of classification. Combinatorial aspects and algorithms ».

Patrice Bertrand.

Contributions for the coming issue of the IFCS newsletter can be sent to:

andre.hardy@fundp.ac.be

Text files are by preference in ascii or word, with pc format. For graphical materials, by preference GIF is used.

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