



International Federation of Classification Societies Newsletter

President: Maurizio Vichi

Number 51

April, 2015

Editor: Paul McNicholas

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, The Classification Society, Gesellschaft für Klassifikation, Greek Society of Data Analysis, Irish Pattern Recognition and Classification Society, Japanese Classification Society, Korean Classification Society, Moroccan Classification Society, Société Francophone de Classification, Multivariate Data Analysis Group of the South African Statistical Association, Multivariate Statistics and Classification Group of the Spanish Society of Statistics and Operations Research, 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 two journals: *Advances in Data Analysis and Classification* and the *Journal of Classification*.

IFCS Homepage: <http://www.ifcs.info>

The website contains, among other things: the IFCS Constitution and By-Laws, IFCS newsletters, and links to the websites of member societies.

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Words from the IFCS President

Dear readers, it is my pleasure to officially inform you that, in response to the ballot for the admission of new members to the IFCS, the Council of IFCS has unanimously admitted: the *Multivariate Data Analysis Group* of the South African Statistical Association (SASA-MDAG), and the *Multivariate Statistics and Classification Group* of the Spanish Society of Statistics and Operations Research (SEIO-AMyC). On behalf of the Council of the Federation I warmly welcome these two new important Groups of two well-known Statistical Associations. I wish to introduce to readers their Presidents and Coordinators:

- James Allison, President of SASA.
- Sugnet Lubbe, Chair of Multivariate Statistics and Classification Group of SASA.
- Leandro Pardo, President of SEIO.
- José Fernando Vera, Coordinator of the Multivariate Statistics and Classification Group of SEIO.

Congratulations and thanks for the interest of the two new Societies in IFCS! Now, the Federation includes the affiliation of 17 associations as well as the protocol of collaboration with IASC and ISI. Once again, welcome! We are all most grateful for your participation in IFCS.

Activities of IFCS are continuing in several directions. I am contacting some other associations that have expressed interest in IFCS. I hope to have some good news in the near future. The organization of IFCS 2015 is continuing very well. We have well-known and highly appreciated keynote speakers: Gerda Claeskens (Belgium), Professor of Statistics at Leuven University; Trevor Hastie (USA), Professor of Statistics and Biostatistics at Stanford University; Marco Riani (Italy), Professor of Statistics at Parma University; Robert Tibshirani (USA), Professor of Statistics and Health Research and Policy at Stanford University; Terry Speed (Australia), Professor of Statistics, Head of Bioinformatics Melbourne. Also the number of papers submitted for IFCS is very good about 180 and we have now 8 posters (please, note that the submission for posters is still open, so potential participants can still submit a paper presented in the form of a poster). Therefore, now we have essentially the same number of submissions with respect to IFCS 2013. There will be two tutorials (afternoon of Sunday, the 5th of July): *Distributional Data Analysis* by Rosanna Verde; and *The New Science of Big Data Analytics, Based on the Geometry and the Topology of Complex Systems* by Fionn Murtagh.

The chair of the IFCS Awards Committee, Salvatore Ingrassia, informed me on the situation of the awards nominations and candidatures. For the IFCS *Research Medal for outstanding research achievements*, 4 nominations have been submitted; for the *Chikio Hayashi Awards*, 5 nominations have been received; and for the *Student/Postdoctoral Fellow Paper Competition and Travel Award*, 7 candidatures have been obtained. For the *Student Poster Session Competition Award on Innovative Research Including Applications*, the situation is evolving and at least 6 students who have submitted posters should apply for the awards. These figures prove the relevant interest and participation in the different and more specific categories of IFCS awards, attesting to the appreciation for these novelties. I would like to thank Springer for financing part of IFCS Awards with 1400 euros and some books that will be awarded to winners.

I have received, from the President of the Japanese Classification Society, Tadashi Imaizumi, a bid for the organization of the IFCS

conference in 2017 in Tokyo, Japan. On behalf of the Federation, I have thanked Imaizumi for the great proposal. As it is standard practice, the President has discussed with the President Elect this offer to organize IFCS 2017 and together they have verified all details of the Tokyo bid 2017, also in comparison with the previous two bids of Bologna and Tilburg. We found the proposal well prepared, complete and in line with the previous two proposals. Therefore, we have recommend acceptance of the bid 2017 to the Executive Committee (EC). The EC has requested some changes that should be completed by mid-May. Then we will propose an electronic vote of the Council.

Maurizio Vichi
IFCS President

News from the IFCS Secretary

I am happy to report that the IFCS has two new members, namely:

- the Multivariate Data Analysis group of the South African Statistical Association (SASA-MDAG), and
- the Multivariate Statistics and Classification Group of the Spanish Society of Statistics and Operations Research (SEIO-AMyC).

Both new memberships were approved by the IFCS Council each with 27 yes votes, with a turnout of 27 votes out of 29 councillors.

The Executive Committee (EC) held a Skype meeting on 24 April 2015, on which a bid to organise the IFCS-2017 conference by the Japanese Classification Society was discussed, which was greatly appreciated by the EC members and will be presented to the IFCS Council soon. There was also a report on the current (good) state of the organisation of the IFCS conference in Bologna 2015, and on recent progress of the IFCS benchmark initiative, which will open a benchmark repository for clustering soon for submission of data sets.

The SASA-MDAG informed the EC of the holders of the following offices:

- SASA president: James Allison (until November 2015),
- SASA-MDAG treasurer: Lizanne Raubenheimer (until November 2017),

- IFCS council delegate and MDAG chair: Sugnet Lubbe (until November 2015).

The current president of SEIO-AMyC is Leandro Pardo Llorente. Claus Weihs has taken over from Daniel Baier as IFCS Council delegate of the German society GfKI. Please inform me of any current elections and nominations in the member societies so that I can keep the IFCS directory up to date. I wish all readers a pleasant summer!

Christian Hennig
IFCS Secretary

News from the IFCS Publication Officer

I would like to join Maurizio and Christian in welcoming our two new member societies, SASA-MDAG and SEIO-AMyC. As usual, a list of upcoming events is listed at the end of this newsletter. In addition to events of various IFCS member societies, I draw your attention to the announcement of the International Meeting of the Psychometric Society, which I am very happy to include at the request of the President of the Psychometric Society, Sophia Rabe-Hesketh. I am really looking forward to IFCS 2015, and I hope to see you in Bologna in July!

Paul McNicholas
IFCS Publication Officer

News from the Irish Pattern Recognition and Classification Society

The Irish Machine Vision and Image Processing Conference (IMVIP) will take place from August 26th to 28th 2015 in Trinity College, Dublin. IMVIP is a single-track conference that brings together theoreticians and practitioners, industrialists and academics, from the numerous related disciplines involved in the processing and analysis of image-based information. In addition to the contributed programme, there will also be talks by keynote speakers, an industry panel discussion, demos and expo. This conference is sponsored by the Irish Pattern Recognition and Classification Society (IPRCS). More information can be found on the website <https://www.scss.tcd.ie/conferences/IMVIP2015/>

Rozenn Dahyot

(I) The 33rd Annual Meeting of the Japanese Classification Society

The 33rd Annual Meeting was held on March 2nd and 3rd, 2015 at Teikyo University, asumigaseki Campus in Tokyo. The chairperson of the organizing committee was Satoru Yokoyama (Teikyo University). The speakers and the titles of their talks were as follows:

- *Relation analysis of umbrella brand using asymmetric multidimensional scaling*, Toshinori Saito (Bunkyo Gakuin Univ., MACROMILL.Inc.).
- *MDS for time-series dis-similarity data considering trend*, Yoji Yamashita (Doshisha University) and Hiroshi Yadohisa (Doshisha University).
- *Concept of cluster analysis and cluster*, Akinori Okada (Tama University) and Satoru Yokoyama (Teikyo University).
- *Hierarchical clustering of aggregated symbolic data with different variable types*, Nobuo Shimizu (The Institute of Statistical Mathematics), Junji Nakano (The Institute of Statistical Mathematics), and Yoshikazu Yamamoto (Tokushima Bunri University).
- *Detection of a space-time cluster for radiation monitoring post data*, Fumio Ishioka (Okayama University) and Koji Kurihara (Okayama University).
- *A study on strategic data analysis from a view point of management and marketing theory*, Takao Ishizuka (Asia University).
- *Classification criteria of the multinational enterprise*, Daigo Matsumoto (Aomori University), Hiroki Furuzumi (University of Hyogo), and Yoshiro Matsuda (Statistical Information Institute for Consulting and Analysis).
- *Changes of corporate structure and industrial classification system for companies*, Hiroki Furuzumi (University of Hyogo), Yoshiro Matsuda (Statistical Information Institute for Consulting and Analysis), and Yasumasa Baba (The Institute of Statistical Mathematics).
- *The classification of soccer games based on value of summary of detailed data on action*, Yo Kameoka (Graduate School of Science, Tokai University), Sanetoshi Yamada (Graduate School of Science, Tokai University), Hayate Hibi (School of Science, Tokai University), and Yoshiro Yamamoto (School of Science, Tokai University).

- *Classification of the batters using the index of sabermetrics*, Takuto Ikegami (Graduate School of Science, Tokai University), Keita Yagi (Graduate School of Science, Tokai University), Takamitsu Funayama (Graduate School of Science, Tokai University), and Yoshiro Yamamoto (School of Science, Tokai University).
- *Social Listening for tweets to sport players*, Go Kikuma (Graduate School of International Social Sciences, YOKOHAMA National University) and Hiroyuki Tsurumi (Faculty of International Social Sciences, YOKOHAMA National University).
- *Visualization of the questionnaire result by the association rule using the correspondence analysis*, Sanetoshi Yamada (Graduate School of Science, Tokai University) and Yoshiro Yamamoto (School of Science, Tokai University).
- *Visualization and classification of the respondents tendency to a questionnaire*, Shohei Munakata (Graduate School of Science, Tokai University) and Yoshiro Yamamoto (School of Science, Tokai University).
- *Simultaneous analysis of reduced multi-label classification with clustering labels*, Hiroaki Ikuta (Doshisha University), Kensuke Tanioka (Doshisha University) and Hiroshi Yadohisa (Doshisha University).
- *Cluster analysis with dimension reduction for supervised data*, Jun Sakagami (Graduate School of Culture and Information Science, Doshisha University) and Hiroshi Yadohisa (Faculty of Culture and Information Science, Doshisha University).
- *Clustered factor score identification*, Kohei Uno (Graduate School of Human Sciences, Osaka University) and Kohei Adachi (School of Human Sciences, Osaka University).
- *Relationship between classification and partition*, Masaaki Sibuya (Keio University).
- *Subinterval specification in functional clustering and its application to log of the e-learning system*, Yusuke Matsui (Nagoya University), Teppei Shimamura (Nagoya University), Masahiro Mizuta (Hokkaido University) and Nagatomo Nakamura (Sapporo Gakuin University).
- *Effect of continuous-discrete transformation in cluster analysis*, Yasumasa Baba (The Institute of Statistical Mathematics).

A workshop about Bijinesu no tame no Kurasutaringu [Clustering for Business] was held on March 2nd in the meeting. The organizer was Yuki Toyoda (Tama University) and the lecturers were Yuki Toyoda (Tama University) and Atsuhō Nakayama (Tokyo Metropolitan University).

(II) Publication of the Journal

The Volume 4 Number 1 of the Journal of the Japanese Classification Society, Deta Bunseki no Riron to Oyo [Bulletin of Data Analysis], was successfully published last March (all papers are written in the Japanese language).

(III) The Japanese Classification Society Symposium on “Correspondence Analysis, Dual Scaling, and Quantification Theory, the present and the future”.

The symposium will be held on September 2015 at Okayama University, Tsushima Campus in Okayama Pref. under the 2015 Japanese Joint Statistical Meeting. The organizer is Tadashi Imaizumi (Tama University). The official Web site of the 2015 Japanese Joint Statistical Meeting is <http://www.jfssa.jp/taikai/2015/>.

Satoru Yokoyama

News from The Classification Society

Annual Meeting

The Annual Meeting of the Classification Society will take place 3-6 June, 2015, at McMaster University, Hamilton, Ontario, Canada. The Organizing Committee is Brian Franczak, Paul McNicholas and Doug Steinley. The only meeting event on June 3 will be a welcome barbecue in the evening, and the meeting will conclude around lunchtime on June 6. Details are available at <http://ms.mcmaster.ca/~paul/cs2015/>.

Journal of Classification

Doug Steinley, Professor, Department of Psychological Sciences, University of Missouri, will assume the Editorship of the *Journal of Classification*, effective 1 April, 2015. We thank Willem Heiser of the University of Leiden for many years of superb service as Editor. Doug has recently visited Willem in Leiden for a briefing on the duties as Editor and the nature of the Editorial Office.

Stanley Sclove

News from CLAD

JOCLAD 2015

The XXII Annual Meeting of the Associação Portuguesa de Classificação e Análise de Dados (CLAD), JOCLAD 2015, will be held April 10-11 2015 at the *Escola Superior de Tecnologia do Barreiro – Instituto Politécnico de Setúbal*. JOCLAD 2015 is an opportunity to meet other researchers, make new contacts that will emphasize interdisciplinary research and interaction between classification and data analysis theory and practise, as well as to visit beautiful places around Lisbon and further south of Setúbal towards Alentejo.

JOCLAD 2015 scientific program includes two short courses, three plenary invited lectures, thematic sessions, contributed paper sessions in parallel and poster sessions. Short courses will take place April 10 during morning: *Model-based Clustering - presentation of the Mixmod software* (Gilles Celeux, INRIA Saclay-Île-de-France, France) and *Análise de Dados nas Ciências da Saúde* (Cristina Rocha, Faculdade de Ciências da Universidade de Lisboa, Portugal).

JOCLAD 2015 plenary invited lectures are the following: *Fitting viral dynamic models to longitudinal data using a population based approach* (Ruy Ribeiro, Theoretical Division, Los Alamos National Laboratory, Los Alamos, NM, USA and Laboratório de Biomatemática, Faculdade de Medicina da Universidade de Lisboa, Portugal), *Controlo Estatístico de Processos: Reamostragem em Planos de Aceitação e Cartas de Controlo* (Fernanda Figueiredo, Universidade do Porto, Portugal) and *Mixture model selection criteria focusing on a clustering purpose* (Gilles Celeux, INRIA Saclay-Île-de-France, France). The authors of the best applied research papers presented at the Conference are invited to submit full papers for publication in the next issue of CLAD's Book Series.

Further information is available on the conference website: joclاد2015.estbarreiro.ips.pt/

Helena Bacelar-Nicolau

Upcoming Conferences and Meetings

April 2015

JOCLAD 2015, April 10-11, Escola Superior de Tecnologia do Barreiro – Instituto Politécnico de Setúbal. <http://www.clad.pt>

June 2015

The Classification Society Meeting, June 3-6, McMaster University, Hamilton, Ontario, Canada. <http://ms.mcmaster.ca/~paul/cs2015>

July 2015

IFCS-2015, July 6-8, Bologna, Italy. <http://ifcs.boku.ac.at/ifcs2015>

International Meeting of the Psychometric Society (IMPS 2015), July 12-16, Beijing, China. <https://www.psychometricsociety.org/content/imps-2015>

August 2015

Irish Machine Vision and Image Processing Conference (IMVIP), August 26-28, Trinity College, Dublin, Ireland. <https://www.scss.tcd.ie/conferences/IMVIP2015/>

September 2015

European Conference on Data Analysis (ECDA2015), September 2-4, Colchester UK.

“Correspondence Analysis, Dual Scaling, and Quantification Theory, the present and the future”, 2015 Japanese Joint Statistical Meeting. <http://www.jfssa.jp/taikai/2015/>.

October 2015

CLADAG 2015, October 8-10, Flamingo Hotel, Santa Margherita di Pula, Cagliari, Italy.

Looking Ahead to IFCS Newsletter Number 52

Contributions for the forthcoming issue of the IFCS newsletter should be sent to Paul McNicholas, IFCS Publication Officer, at mcnicholas@math.mcmaster.ca before July 24.

Plain text or Word files are preferred.

Thanks!

Paul McNicholas

IFCS Publication Officer