IASC REPORT 2015
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ACTIVITIES AUGUST 2014 – JULY 2015

IASC activities between the General Assembly held at COMPSTAT 2014 and the General Assembly that will be held at ISI WSC 2015 in Rio de Janeiro.

STATUTES

- In 2014 IASC initiated the revision of its Statutes. After the fruitful discussions that took place in the General Assemblies on August 21st and December 7th 2014, the proposal of the Statutes was voted in January of the present year by electronic means, and as stated in Article 15.2 of the former Statutes. The results of the voting follow:
  - Council: Of the 21 members there were 20 voters. 19 members voted "Yes", 0 members voted "No" and 1 member abstained.
  - Membership: Of the 452 members there were 90 voters. 85 members voted "Yes, I consent", 2 members voted "No, I object" and 3 members abstained.

As a result, IASC has new Statutes that are published in its webpage.

OFFICERS

- The elections for the 2015-2017 IASC Executive Committee took place between May 20, 2015, and June 3, 2015. The electronic voting process was organized by the ISI Permanent Office. Of the 477 IASC members, 20.9% casted their votes. The results were as follows.
  - President-Elect 2015-2017: Wing Kam Fung, 88 votes, which means that Wing Kam Fung is elected as President-Elect.
  - Scientific Secretary 2015-2017: Casper Albers, 90 votes, which means that Casper Albers is elected as Scientific Secretary.
  - Treasurer 2015-2017: Christophe Croux, 91 votes, which means that Christophe Croux is elected as Treasurer.
  - Executive Committee Members 2015-2017: there were 4 candidates for 2 posts. The outcome is:
    - Javier Cabrera, 33 votes,
    - Neyko M.Neykov, 44 votes,
    - David W. Scott, 52 votes,
    - Thomas W. Yee, 47 votes.

This means that David W. Scott and Thomas W. Yee are elected as members of the Executive Committee.
The new Executive Committee will get into office after the general assembly meeting in Rio de Janeiro.

CONFERENCES

- Participation in WSC 2015.
  - IASC member in Scientific Committee: Francsico De Carvalho, Brazil; Co-Chair: Rosanna Verde, Italy.
  - Presidential, IASC keynote and official journal invited sessions.
  - 15 Invited Paper Sessions proposed, 10 approved.
Five short courses proposed; responsible person: Tomas Aluja, Spain. Finally, it was only approved the following one:
- Introduction to Structural Equation Modeling, by Albert Satorra and Joan Carles Bou
Furthermore, there will be another course organized by an IASC member:
- Data Mining, Machine Learning, and Business Analytics, by David Banks
Two round table discussions organized by IASC members.
See below more for details.

IASC satellite meeting 2015, Búzios, 2-4 August 2015. See below for details.

WORKSHOPS, COURSES AND SESSIONS IN OTHER CONFERENCES

- IASC seminar on R held in Tanzania. With the financial support obtained last year from the World Bank Trust Funds for Statistical Capacity Building (WBTFSCB), the R course was held in Tanzania, at the Eastern Africa Statistical Training Center (EASTC) in Dar Es Salaam, from February 12-16, 2015. Prof. Filzmoser and Prof. Templ, both from the Vienna University of Technology, organized the seminar and 19 people from Tanzania, Liberia, Nigeria and Zambia could participate.
- Sponsorship of CoDaWork 2015 the workshop on Compositional Data Analysis, Girona, Spain, June 2015.
- IASC organized a session at the IFCS 2015 conference held at the University of Bologna, Italy (July 6th to July 8th 2015. The IASC invited session was organized by Patrick Groenen, Erasmus Universiteit Rotterdam. The title of the session was “Bilinear models and regularization”.

PRIZES AND AWARDS

- IASC Data Analysis Competition 2015 – 5 submissions received (see below for details).
- ERS IASC Young Researchers Award 2014. ERS offered three prizes, each worth of 500,00 Euros (five hundreds Euros), for the three best contributions submitted by young participants - 10 candidates (see below).

COMMUNICATION

- Webpage
  - Inclusion of news / announcements in the monthly ISI Newsletter
  - Detailed news posted in IASC webpage
  - Announcements also posted in IASC LinkedIn page
  - Announcement of Job opportunities in IASC webpage
  - IASC webpage still is under revision and re-structuring (see below)
- Social media
  - LinkedIn: We have posted IASC events and job opportunities activity (mainly posted by P. Schoonees, who is in charge of the LinkedIn group), but had few activity by members.
  - Twitter: Two accounts one for IASC (https://twitter.com/iasc-is) and other for the Young Statisticians Group (https://twitter.com/youngiasc). No activity yet.

COOPERATION

- Following previous collaboration between the IASC and the International Federation of Classification Societies (IFCS), a protocol for cooperation was unanimously approved by the Councils of both organizations.
  The aim of the agreement is to promote and encourage open an constructive dialogue and to work cooperatively to increase the scientific impact of the two scientific communities. Both organizations agree
to work together in communication and organization of events such as exchange invited sessions in their respective meeting and conferences, joint sessions at the ISI conference, workshops, summer schools, etc.

PUBLICATIONS

- The Statistical Software Newsletter and its website had registered no activity in the past few years. As a result it was decided to terminate it.

OTHER ACTIVITIES/PROJECTS

- It was decided to keep the membership fee structure as it is now. There is an option in the membership form to become a member of the Young Statistics Group, but there is no additional reduction for YSG-members that are not students. The fees for the present year are:
  - Regular fee: 40€
  - Less Developed countries: 20€
  - Students: 20€
OBJECTIVES AND PROJECTS JULY 2015-2016

COMMUNICATION

- Expanding visibility through the IASC website and social media.
- Possibly develop a video for the promotion of the IASC.

COOPERATION

- Investigate the possibility of a middle/south American regional section.
- Obtain additional funding through the ISI-World Bank fund for capacity building in developing countries.

CONFERENCES

- 9th Conference of the Asian Regional Section of the IASC, December 17-19, 2015. See below for details.
- COMPSTAT 2016, to be held in Orviedo, Spain, August 23-26, 2016. See below for details.
- Participation in WSC 2017, July 26-31, Marakech, Morocco.
- COMPSTAT 2018, to be held in Iasi, Romania, 2018. See below for details.

WORKSHOPS/COURSES

- We wish to continue and even expand the Summer School activities.

PRIZES AND AWARDS

- Continue the Data Analysis Competition initiative.

PUBLICATIONS

- Finalize the contract with Elsevier concerning IASC’s official journal CSDA.
Informal meeting of the ERS-BOD at the ERCIM conference 2014 in Pisa to discuss the summer courses organizations. The two proposals made during the COMPSTAT meeting in Geneva were withdrawn for the uncertainty concerning the rules to organize summer courses (Time Series in London) and the criticisms received during the BoD meeting (Functional Data in Granada). The possibility of having a course on functional data co-organized by the ERS in 2016 is now reconsidered as complementary activity of the COMPSTAT 2016 in Oviedo.

The statutes to adapt to the new statutes for IASC are about to be finalized (just waiting for the final indication of Ada Krimpen about the need of conveying an annual RA).

COMSTAT 2016 will be held in Oviedo and all the useful information available until now is at http://www.compstat2016.org/
ASIAN REGIONAL SECTION REPORT

ACTIVITIES 2014 – JULY 2015

COMMUNICATION


- Detailed news posted in IASC-ARS webpage
- Announcements posted in IASC-ARS webpage

CONFERENCES

  Date: November 18-19, 2014
  Place: Kuala Lumpur, Malaysia
  (Co-organized with The Centre for Mathematical Sciences (CMS) of Universiti Tunku Abdul Rahman (UTAR), Kuala Lumpur)

  Date: June 27-28, 2015
  Place: National Changhua University of Education (NCUE), Changhua, Taiwan.
  (Co-organized with the Chinese Institute of Probability and Statistics (CIPS), and the Department of Mathematics, NCUE)

- Statistical Computing Asia 2015
  Date: July 01-02, 2015
  Place: Academia Sinica, Taipei, Taiwan
  (Co-organized with CIPS and the Institute of Statistical Science, Academia Sinica, Taiwan)

OBJECTIVES AND PROJECTS JULY 2015-2016

CONFERENCES

- The 9th Conference of the Asian Regional Section of the IASC - IASC-ARS2015
  Date: December 17-19, 2015
  Place: National University of Singapore, Singapore
  Website: [https://iasc-ars2015.stat.nus.edu.sg/](https://iasc-ars2015.stat.nus.edu.sg/)
  (Co-organized with The Department of Statistics and Applied Probability, National University of Singapore)

- The 10th Conference of the Asian Regional Section of the IASC - IASC-ARS2017
  Date: December 11-14, 2017
  Place: The University of Auckland, Auckland, New Zealand
  Website: 
  (Co-organized with The New Zealand Statistical Association (NZSA))
STATUTES

- IASC-ARS statutes are currently under revision

Chun-houh Chen, Chair of ARS
MISSION

In order to enhance the IASC-ISI community role in the challenges of the Knowledge Society, the IASC Council established a special committee on "Computational Statistics and Data Mining for Knowledge Discovery" (CS-DM&KD).

The committee mission is to promote cross-disciplinary discussions and research in Data Mining and Knowledge Discovery, based on a Computational Statistics framework. Past activities of the committee include the session on Symbolic Data Analysis organized by Carlo Lauro in the SIS 2013 Statistical Conference in June, 2013.

CS-DM&KD is to provide an important forum to promote cross-disciplinary discussions and research in Data Mining and Knowledge Discovery, based on a Computational Statistics framework.

IASC, ISI, and Associations members are entitled to participate in the activities promoted by the CS-DM&KD Committee. Contributions to the CS-DM&KD Committee activities by members of other scientific societies are welcome.

The by-laws of the CS-DM&KD Committee were accepted on 18 April 2012.

http://www.iasc-is.org/downloadisc/CSDMKD-Committe_Bylaws_Accepted_04_18_2012.pdf

COMMITTEE FOR THE PERIOD 2011-2015

COMMITEE MEMBERS

- Tomas Aluja Banet (Universitat Politècnica de Catalunya, Spain)
- Carlo Lauro, past Chair (University of Naples, Federico II, Italy)
- Masahiro Mizuta (Hokkaido University, Japan)
- Fionn Murtagh, Chair (Goldsmiths University of London and University of Derby, UK)
- David J. Hand (Winton Capital and Imperial College London, UK)
- Djamel A. Zighed (Université Lumière Lyon, France)
- Mireille Summa (Université Paris Dauphine, France)

COMMITEE MEMBERS, 2011-2013

- Ali Serhan Koyuncugil, Scientific Secretary (Capital Markets Board of Turkey, Turkey)
- Joyce Niland (City of Hope, USA)
- Dusan Husek (Academy of Sciences of the Czech Republic, CZ)

OFFICERS

- Carlo Lauro, Committee Chair, 2011-2013, current past Chair (University of Naples – Federico II, Italy)
- Fionn Murtagh, Chair 2013-2015 (Goldsmiths University of London and University of Derby, UK)
- Ali Serhan Koyuncugil, Scientific Secretary 2011-2015. (Capital Markets Board of Turkey, Turkey)

COMMITTEE MEMBERS, 2015-2019
COMMITTEE MEMBERS

- Karina Gibert (UPC, Universitat Politècnica de Catalunya, Barcelona, Spain)
- David J. Hand (Imperial College, London)
- Dušan Húsek (Academy of Sciences of the Czech Republic, Czech Republic)
- Ali Serhan Koyuncugil (Capital Markets Board of Turkey, Turkey)
- Carlo Lauro (Past Chair) (University of Naples - Federico II, Italy)
- Masahiro Mizuta (Hokkaido University, Japan)
- Fionn Murtagh (Goldsmiths Univ. London and Univ. Derby, UK)
- Joyce Niland (City of Hope, USA)
- Mireille Summa (Dauphine Université Paris, France)
- Djamel A. Zighed (Université Lumi ère Lyon 2, France)
- Ex officio, President of IASC, Patrick Groenen

OFFICERS OF THE CS-DM&KD COMMITTEE:

- Chair, 2015-2019: Ali Serhan Koyuncugil (Capital Markets Board of Turkey, Turkey)
- Past Chair, Fionn Murtagh; and the previous Past Chair is Carlo Lauro.
- Scientific Secretary, 2015-2019: Fionn Murtagh (Goldsmiths Univ. London and Univ. Derby, UK)

BY-LAWS OF THE CS-DM&KD COMMITTEE

The following are from the by-laws of the CS-DM&KD Committee:

- The Committee consists of 10 effective members elected by the IASC Council. Half of them are renewed every 4 years.
- The IASC President is an ex-officio member of the Committee.
- The Committee effective members shall be eligible for re-election to office for only one further consecutive term of 4 years.
- Not more than two Committee members shall be citizens of the same country.
- The Committee elects among its members the Chairman and the Scientific Secretary.

ACTIVITIES

ISI WORLD STATISTICS CONGRESS (WSC), ISI 2015

An Invited Program Session, was proposed for ISI WSC, World Statistics Congress, 2015.

Title of Session: The New Data Science: Statistical Analysis of Massive, High Dimensional Systems

The increasing availability of very large data banks, generally embedded in high dimensional attribute spaces, requires new thinking in regard to statistical modelling and to the deployment of data analysis methods. Not infrequently, in new application domains involving very complex (social, health, economic, environmental, etc.) systems, there are new needs for use of (or development of) the appropriate statistical modelling, geometric data analysis, and computationally scalable methods.

New methodology and results will be presented by a number of leading researchers in the new data science, that is, in statistical data analysis relating to complex systems. The areas of work discussed in this session will be of relevance to official statistics. This is in the context of surveys
and information gathering that are now generally moving from classical census-taking to far broader, open sourcing of data and the associated semantics of the data. The session is also of relevance given the increasing movement towards Open Linked Data, that is, abundant and growing, openly accessible, and usable data provision by public authorities. It is anticipated that there will be impact also relating to research processes, through gaining greater insight into research publishing and research grant funding activities.

In brief, the speakers were as follows.

- Prof. Zighed: analytics of large citation networks. IASC Council Member, 2013-2017; Member, IASC Committee CS-DM&KD.
- Prof. Murtagh, Dr Contreras: analytics for understanding the narrative of the scholarly literature, and research funding proposal interests. Prof. Murtagh – IASC Council Member, 2013-2017; Chair, IASC Committee CS-DM&KD.
- Prof. Summa: questionnaire analytics, including free text and unstructured responses and interaction, together with interactive web mining. Member, IASC Committee CS-DM&KD.
- Prof. de Carvalho: Chair, Discussant. IASC Council Member, 2013-2017.

The following Short Course was proposed for ISI WSC 2015.

- Title of short course: Towards a New Science of Big Data Analytics, Based on the Geometry and the Topology of Complex, Hierarchic Systems
  Instructor: Fionn Murtagh

Outcome of proposed IPS Session, and Short Course: not accepted. Instead an STS Session was proposed, that is now in the WSC programme.

Details follow on

  Session length: 100 minutes.
  This session is organized by the IASC Committee on "CS-DM&KD, Computational Statistics and Data Mining for Knowledge Discovery", see www.iascisi.org/node/184 (and 212). The increasing availability of very large data banks, generally embedded in high dimensional attribute spaces, requires new thinking in regard to statistical modelling and to the deployment of data analysis methods. Not infrequently, in new application domains involving very complex (social, health, economic, environmental, etc.) systems, there are new needs for use of (or development of) the appropriate statistical modelling, geometric data analysis, and computationally scalable methods.
  Chair: Andre Ponce de Leon F. de Carvalho, Department of Computer Science - University of Sao Paulo at Sao Carlos, Brazil.

Speakers:

- Djamel Abdelkader Zighed, Institut des Sciences de l'Homme de Lyon, Université de Lyon, “Data Mining based approach for authors disambiguation in large citation networks”.
- Mireille Summa, CEREMADE Université de Paris - Dauphine, “Textual Data Analysis and Supervised Text Learning: Challenges and Achievements”.
- Pedro Contreras et al., Thinking Safe Ltd., Egham, “Clustering Insider Threat Behaviour: An Ultrametric Anomaly Detection System”.

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- Fionn Murtagh, Arlene Casey, Samad Ahmadi and Pedro Contreras, Goldsmiths Univ. London and Univ. of Derby, De Montfort University, ThinkingSafe Ltd., “Analytics of Research Literature Quality through Content and Semantics of the Scholarly Literature”.

Updated status: Schedule of STS sessions at ISI WSC 2015:

- STS019 The New Data Science: Statistical Analysis of Massive, High Dimensional Systems
- Organiser: Fionn Murtagh
- Chair: Andre Ponce de Leon F. de Carvalho
- Room: 204A  Day: 27 July 2015  Session: 2  Number within Session: 13 Time: 10:30-12:30  Duration: 120 minutes
- Chair, Speaker and Presenter Contact points:
  - Andre de Carvalho <andre@icmc.usp.br>
  - Djamel A. Zighed <abdelkader.zighed@univ-lyon2.fr>
  - Fionn Murtagh <fmrutagh@acm.org>
  - Arlene Casey <arlenejanecasey@hotmail.co.uk>
  - Samad Ahmadi <ahmadi.samad@gmail.com>
  - Pedro Contreras <pedro.contreras@gmail.com>
  - Meulman, Jacqueline <jmeulman@math.leidenuniv.nl>
  - Maarten Kampert <mkampert@math.leidenuniv.nl>
  - Mireille Summa <summa@ceremade.dauphine.fr>

IASC 2015 SATELLITE MEETING

A proposal was made for a special session on: “Analytics of Environmental Data and Related Areas”

Including:

- Environmental/Forestry Data Analytics
- Earth Observation data management and analytics
- Environmental Big Data analytics
- Time Series Analysis
- Analytics of Remote Sensing Data

Having had two prominent speakers who initially planned to attend, unfortunately their commitments did not allow this.

Fionn Murtagh, Chair of IASC Committee CS-DM&KD.
The IASC Nomination Committee for ISI Membership was organized in February 2014 to recommend several IASC members for ISI election rounds before ISI WSC 2015:

- Yuichi Mori (Japan, Co-Chair)
- Michel Van de Velden (The Netherlands, Co-Chair)
- Cathy W.S. Chen (Taiwan)
- Thomas Yee (New Zealand)
- Michael G. Schimek (Austria)
- Tomas Aluja-Banet (Spain)
- Juergen Symanzik (USA)
- Paula Brito (ex officio, Portugal)
- Patrick J.F. Groenen (ex officio, The Netherlands)
- Karen Kafadar (ex officio, USA)

We selected the following number of candidates:

- Australia: 1
- Austria: 2
- Belgium: 1
- Bulgaria: 1
- France: 1
- Italy: 3
- Japan: 2
- Netherlands: 3
- New Zealand: 1
- Spain: 2
- Switzerland: 1
- United Kingdom: 1
- United States: 3

who are members of IASC but not members of ISI yet, and made past significant contributions to ISI and its member associations, including IASC sections such as the European Regional Section (ERS) or the Asian Regional Section (ARS), partner organizations such as the Interface Foundation of North America (IFNA), and meetings such as the IASC world conference, COMPSTAT, or the Interface symposia, and are expected to continue to take an active role in ISI.

Based on the list we have started to follow up with individuals to obtain their approval and prepare their case for election to ISI with support of IASC (three possible sponsors who we assigned and asked to support each of them).

Six election rounds were scheduled by now since our committee started. We would report the result of the elections here.

Thirteen IASC members indicated their willingness to be nominated for ISI membership and submitted the necessary information form with support of three sponsors, and have been approved to be ISI elected members by the ISI Membership Elections Committee / the ISI Executive Committee:
2nd round in 2014

John Sall (United States)
Thomas Yee (New Zealand)
Michel Van de Velden (Netherlands)
Herman K Van Dijk (Netherlands)
Ana Aguilera (Spain)
Wataru Sakamoto (Japan)
Peter Filzmoser (Austria)

3rd round in 2014
Michele La Rocca (Italy)

4th round in 2014
Berwin Turlach (Australia)
Neyko Neykov (Bulgaria)
Rosaria Lombardo (Italy)
Domenico Vistocco (Italy)

2nd round in 2015
Atsuhiro Hayashi (Japan)

(From the report provided by the ISI membership officer, we realized that two more IASC members, Christos Kitsos and Richard Gerlach, have been also approved although our committee didn't nominate.)

We thank Prof. Jung Jin Lee, Prof. Jaromir Antoch, Prof. Gilbert Saporta, and Prof. Vincenzo Esposito Vinzi for their cooperation as sponsors.

Reported by Yuichi Mori and Michel Van de Velden

May 20, 2015
IASC YOUNG STATISTICIANS GROUP

FORMATION

YSG-IASC is the young statisticians' group in IASC, which is established in January 2014.

OBJECTIVE

The YSG-IASC is devoted to provide a networking forum for students, post-docs, young researchers and professionals dealing with all fields of statistical computing, to discuss and share ideas and researches with the statistics and computing community at large. The YSG-IASC exists to bring together career-young statisticians around the world and to help support their career development and enjoyment.

CHAIRMEN

Andreas Alfons, Erasmus School of Economics, Erasmus University Rotterdam

E-mail: alfons@ese.eur.nl    Homepage: http://people.few.eur.nl/alfons/

Research Interests: robust statistics, multivariate and high-dimensional data analysis, statistics in socio-economics and behavioral sciences, development of statistical software

Han-Ming Wu, Department of Mathematics, Tamkang University, Taiwan

E-mail: hmwu@mail.tku.edu.tw    Homepage: http://www.hmwu.idv.tw

Research Interests: statistical methods for microarray data analysis, information visualization, dimension reduction, statistical computing and software using java and R, manifold learning

MEMBERSHIP POLICY

The person who wants to join YSG-IASC as a member should be already an official member of IASC. There are no age restrictions currently to join YSG-IASC.

YSG-IASC WEBSITE SUBSCRIBER

There are 76 registered members (to 2015/05/30).

Nationality: Japan (10), Indian (7), Mexican (4), Malaysia (4), USA (4), Other (45), NA’s (2)

Gender: Male (62), Female (14)

Is.IASC.Member: YES (16), NO (55), Unknown (5)

SOCIAL MEDIA

Facebook: <YSG-IASC>, https://www.facebook.com/groups/626568980736640/

Twitter <@YoungIASC>, https://twitter.com/youngiasc

YSG-IASC WEBSITE

Website: http://www.ysg-iasc.org
ACTIVITIES IN 2014~2015

THE YSG-IASC CONTRIBUTED SESSION IN COMPSTAT 2014. (2014/08/19-22)

The YSG-IASC session: robust methods in regression analysis

Thursday 21.08.2014, 14:00 - 15:45

Chair: Han-Ming Wu  Organizer: Han-Ming Wu

Speakers:

- Y. Terada, The Center for Information and Neural Networks (CiNet)
  Asymptotic properties of factorial k-means clustering
- V. Oellerer*, C. Croux, Economics and Business, University of Leuven, Leuven, Belgium
  Robust regression in high-dimensions: sparse S and sparse MM
- A. Alfons*, C. Croux, S. Gelper, Econometric Institute, Erasmus University Rotterdam
  An algorithm for robust groupwise least angle regression
- H. Wu, Department of Mathematics, Tamkang University, Taiwan
  Cumulative slicing estimation for multiple nonlinear manifolds learning
- K. Lee*, Y. Chen, Department of Statistics, National Cheng Kung University, Taiwan
  Robust Bayesian variable selection to mixture regression models


Organizer/Chair: Han-Ming Wu

Speakers:

- Chih-Hao Chang, Institute of Statistics, Kaohsiung University, Taiwan
  Asymptotic theory of generalized information criterion for geostatistical regression model selection
- ShengLi Tzeng, The Graduate Institute of Biostatistics, China Medical University, Taiwan
  Shrinkage-based modification of fixed rank kriging for fast spatial prediction
- Martin Lukusa, Department of Statistics, Feng Chia University, Taiwan
  A weighted approach to zero-inflated Poisson regression models with missing data in covariates
- Fumitake Sakaori, Department of Mathematics, Chuo University, Japan
  Generalized information criterion for sparse regression models

THE YSG-IASC INVITED SESSION IN IASC SATELLITE CONFERENCE 2015. (2014/08/02-04)

Organizer: Han-Ming Wu

Session Chair: Paulo Canas Rodrigues, Department of Statistics, Federal University of Bahia, Salvador, BA, Brazil

Speakers:

- Hsiang-Ling Hsu, Institute of Statistics, National University of Kaohsiung, Taiwan
  A misspecification-resostant information criterion
- Kelly Cristina Mota Gonçalves, Institute of Mathematics and Statistics, Fluminense Federal University, Brazil
A mixture model for rare and clustered populations under adaptive cluster sampling
- Anderson Ara, Department of Statistics, Federal University of São Carlos, Brazil
  The alpha skew naive bayes: a probabilistic generalization of Gaussian naive bayes
- Jitendra Kumar, Department of Statistics, Central University of Rajasthan, India
  Big data time series analysis: an approach with the size of the time series

Organizer/Chair: Han-Ming Wu
Speakers:
- Daniel Paulin, Department of Statistics and Applied Probability, National University of Singapore, Singapore
  Error bounds for Sequential Monte Carlo methods on multimodal distributions
- Ci-Ren Jiang, Institute of Statistical Science, Academia Sinica, Taipei, Taiwan
  Sensible Functional Linear Discriment Analysis
- Diego Andrés Pérez Ruiz, Statistics, School of Mathematics, The University of Manchester, United Kingdom
  On classification for Functional Data Analysis.
- Elvan Ceyhan, Department of Mathematics, Koç University, Istanbul, Turkey
  Analysis of Cortical Thickness with Medical Imaging Data of Very High and Varying Dimensions per Subject

Andreas Alfons and Han-Ming Wu, Chairmen of the YSG-IASC
In Tables 1 the IASC financial results for 2011 through 2014 are presented. This table was provided by the ISI Permanent Office. The result of 2014 is positive for IASC (€+1804). Without the return of the equity fund, we would have a negative outcome of €-1153. There is an increase of expenses compared to the previous years, due to an increased activity of the society. This is according to the policy of the society, and is a positive sign. Expenses for 2014, not related to administrative or representative tasks, are:

- the price of the winners of the data analysis competition (2), 914 Euro
- 1000 Euro for the summer school 2014

Table 2 presents the budget for 2015, the current year. There is a budget of 2000 Euro to allow our president to represent the society at the ISI meeting in Rio. This expense has already been approved by the board. It is still a point to decide on how and whether the president should be reimbursed for future representative tasks. Other expenses already agreed on are

- Sponsoring R-course in Tanzania, to match Worldbank funding (2500 Euro)
- Sponsoring IASC satellite meeting in Brazil (2000 Euro)
- Sponsoring journal STAT (500 Euro)
- Invited speaker ISI meeting, Xiao-Li Meng (2000 Euro)
- Data Analysis Competition (1000 Euro)

making a total of 8000 Euro (presented under the row “Other” in column 2). For 2015, the budget gives negative outcome of 2000 Euro, and even €-5000 without the Equity Interest. This negative outcome is mainly due to the ISI meeting in Rio, where the IASC wanted to be visibly present. It is acceptable to have this negative outcome, given the large financial reserves of the society (more than €100000).

There are some further expenses to be expected in 2016, namely matching of the world bank funds and a video for the IASC.

My suggestion to the IASC-council is to continue spend a sufficient large amount of money on scientific activities, but to keep in mind that we do have our financial limitations. It is important that the financial reserves (i.e. the equity fund) does not decrease substantially in value, since it generates the equity that is needed to get a positive yearly budget. To make it concrete: spending about 8000 Euro a year for representative tasks and scientific activities could be a target (hence a bit less than in 2015, and a bit more than in 2014).

Christophe Croux, treasurer IASC
## Table 1: IASC Financial Report 2014

### INCOME

<table>
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<tr>
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<th>2013</th>
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### EXPENSES

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#### Organisation

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<td>1 000</td>
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### TOTAL EXPENSES

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### RESULT BEFORE FINANCIAL INCOME

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### RESULT OF THE YEAR

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### Equity Fund December 31

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Table 1: IASC Financial Report 2014
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<tr>
<td>Individual members</td>
<td>17 000</td>
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<tr>
<td>Institutional members</td>
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<td><strong>TOTAL INCOME</strong></td>
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<td><strong>21 707</strong></td>
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<tr>
<td>Travel and meetings</td>
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<td>1 178</td>
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<tr>
<td>Summer School</td>
<td>1 000</td>
<td>1 000</td>
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<tr>
<td>Other</td>
<td>8 000</td>
<td>914</td>
</tr>
<tr>
<td>Staff costs</td>
<td>3 000</td>
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<tr>
<td><strong>TOTAL EXPENSES</strong></td>
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<td>Equity Fund december 31</td>
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<td>112 251</td>
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</table>

Table 2: IASC Budget 2015
MEMBERSHIP REPORT

The table below represents the number of members of the IASC. The number of members is about stable since the last 5 years, as we can read from the last row of the table. The figure below shows the number of members over a longer time horizon. It seems that the further decline in the number of members has stopped.

The table also shows the number of members per category. Recall that the membership fee is €40 for regular members, with a €20 discount for developing countries or students. Members who combine ISI and IASC membership generate 17 Euro for our society and pay 26 Euro for CSDA (in the most regular case). Note that almost no members are in the new category “students”.

My conclusions are (i) the total number of members is at a stable level (ii) the membership fee structure should not get more complicated, and even the regular fee of €40 is already quite low.

Christophe Croux, treasurer IASC

<table>
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<td>151</td>
<td>141</td>
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<td>145</td>
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<tr>
<td>IASC43 ISI + IASC Developed Countries + Retired</td>
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<td>15</td>
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<td><strong>450</strong></td>
<td><strong>429</strong></td>
<td><strong>465</strong></td>
<td><strong>476</strong></td>
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</tbody>
</table>

Table 2: IASC Membership

![Evolution Members](image-url)
The CSDA co-editors are now:

- Erricos Kontogiorghes
- Jae C. Lee.

Javier Cabrera stepped down as CSDA co-editor in June. According to Elsevier, Ana Colubi temporarily took his place from July to December 2015.

The bibliometrics of CSDA follows:

- Impact factor: 1.40 (21% increase).
- 5-Year Impact Factor: 1.510 (5% increase)
- ISI JCR ranking of Statistics and probability journals: 34 (2013: 43)
- Acceptance rate: around 18%
- Submissions: 1410

According to the editorial board, submissions and rejection rates are in the same level (have negligibly increase but nothing significant).
During the last year, in addition to small changes to some pages (such as the Committees page and the Statute page), we often updated the following pages:

- Job opportunities section
- News section
- Moreover we inserted the following page:
  - Data analysis competition section for the current year
- Information and link to the World of Statistics campaign

A table with the summary statistics for www.iasc-is.org is reported next: the first group of columns shows average/day statistics while the last group refers to total statistics for the periods in question. There is no clear trend. While there was a slight decrease of the webpage activity during the first quarter of 2015 (w.r.t. 2015), during the second one there has been a stronger increase. In general, the totals of 2015 so far, show an increase of the activity with respect to the same period in 2014.

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**WORK IN PROGRESS**

Moreover we started with the new site organization through the installation of the platform Drupal 7.38. This new platform is compatible with the modern web standard. In particular:
- It allows an integration with social networks
- It allows the management of RSS feeds

At the moment:

- We have installed the new platform
- We have selected a responsive theme to have a web that displays nice and smooth in different devices (computers, mobile phones and tablets)

We have installed a module to automatically backup the content

- Future tasks to do:
  - Open a twitter account and test the integration with the platform
  - Migrate all the contents to the new platform

Domenico Vistocco, IASC webmaster
PARTICIPATION

- 477 participants (25% females) from 47 different countries
- Repartition among countries (SCCF in green)

PROGRAMME

- 367 papers
- 81 sessions, 12 in parallel
- 6 invited, 23 organized, 48 contributed session
- 4 poster sessions with 43 posters in total
- Keynote talks by Peter Bühlmann, Anthony Davison and Xuming He
- Tutorials by Stefan Van Aelst and Dietmar Maringer.
IASC-ARS collaborated with The Centre for Mathematical Sciences (CMS) of Universiti Tunku Abdul Rahman (UTAR), Kuala Lumpur, Malaysia to organize the International Conference for Mathematics, Statistics and Financial Mathematics (ICMSFM2014).

- Date: November 18-19, 2014
- Place: Kuala Lumpur, Malaysia
- Venue: Sunway Resort Hotel & Spa
The 60th ISI World Statistics Congress (WSC), ISI 2015, will take place in Rio de Janeiro, Brazil, during 26–31 July 2015.

IASC organizes eleven invited paper sessions and nine special topic sessions on various up-to-date topics. In addition, IASC contributes to the conference in the following ways.

**INVITED SESSIONS**

Three invited sessions will be co-organized by IASC.

- IASC keynote talk by Xiao-Li Meng from Harvard University. The talk will have the title: Is it a computing algorithm or a statistical procedure: Can you tell or do you care? The session will be chaired by Paula Brito.
- IASC president talk by Paula Brito on “Statistical Computing for Data Science”.
- A session organized by CSDA journal, chaired by the Jae C. Lee, CSDA editor and that will have the following invited speakers: Mia Hubert, Joyce Niland and John Hinde.

In addition, IASC also contributes with eleven invited paper sessions and nine special topic sessions.

**SHORT COURSES**

Two short courses are organized by IASC members:

- Introduction to Structural Equation Modeling by Albert Satorra and Joan Carles Bou
- Data Mining, Machine Learning, and Business Analytics by David Banks

**ROUNDTABLE DISCUSSIONS**

IASC members will organize the following two discussions:

- Statistical Sciences in the Era of Big Data by Paulo Rodrigues
- Statistics, Machine Learning & Big Data by Genevera Allen
The IASC-ABE Satellite Conference of ISI 2015 will take place in August 2-4, 2015, in the Atlântico Búzios Convention & Resort, Búzios, RJ (Brazil).

This event is organized by the Department of Statistics of the Federal University of Rio de Janeiro (UFRJ), with the support of the Department of Computer Science of the University of São Paulo (USP).

During the 3 days of the event, there will be 9 thematic sessions (32 presentations), a poster session (with 15 posters) and 3 invited talks:

- Climate Model Diagnostics Analysis with Conditional Sampling (winner of IASC Data Analysis Competition),
- Multinomial Correspondence Analysis (Prof. Patrick J.F. Groenen)
- Median Regression For Complex Data with Skewed Response (Prof. Debajyoti Sinha)

There were 60 registrations (20 of them students).

The Satellite Conference has the financial support from: IASC (International Association for Statistical Computing), ABE (Associação Brasileira de Estatística) and CAPES (Brazilian Funding Agency), CNPq and FAPERJ (waiting evaluation from the Brazilian agencies) and the registration fees.
IASC-ARS will be organized in collaboration with The Department of Statistics and Applied Probability, National University of Singapore for organizing the 9th Conference of the Asian Regional Section of the IASC (IASC-ARS 2015).

This is the main conference organized by the Asian Regional Section of the IASC. More than 40 invited sessions with some contributed sessions and poster sessions have been organized.

- Date: 17-19 December, 2015
- Place: Singapore
- Venue: Department of Statistics and Applied Probability, National University of Singapore

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- **David Nott** (National University of Singapore, Singapore)
- **Zhigang Yao** (National University of Singapore, Singapore)

### DATES

**Deadline for Abstract Submission:**
- Contributed Papers: Monday, August 31, 2015
- Posters: Monday, August 31, 2015
COMPSTAT 2016

The website is online with information. http://www.compstat2016.org/

The Conference venue is the Conference and Exhibition Centre "Ciudad de Oviedo", at Arturo Alvarez Buylla s/n 33005, Oviedo, Asturias (Spain).

COMMITTEES

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COMPSTAT 2016 organiser and Chairperson of the SPC and the LOC: Ana Colubi, University of Oviedo, Spain.

Past Compstat organiser: Manfred Gilli, University of Geneva, Switzerland.

Next Compstat organiser: Cristian Gatu, "Alexandru I. Cuza" University of Iasi, Romania.

IASC-ERS SUPERVISOR

Incoming IASC-ERS Chair: Alessandra Amendola, University of Salerno, Italy.

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Juan Romo, University Carlos III, Spain.

Tamas Rudas, Eotvos Lorand University, Hungary.

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Jean-Michel Poggi, Université Paris-Sud, France.

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Representative of the ARS of IASC: TBA

Representative of ERCIM: TBA

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Agustin Mayo, University of Valladolid, Spain.

Domingo Morales, University Miguel Hernandez, Spain.

M. Carmen Pardo, Computense University of Madrid, Spain.

**IMPORTANT DATES**

- Abstract submission for invited and organized sessions: 15 April 2016
- Contributed abstract submission: 10 May 2016
- Paper submissions for the COMPSTAT proceedings: 30 April 2016
- Presenting Authors registration: 25 May 2016
- Notification decision for abstract submissions: 5 May 2016
- Notification decision for COMPSTAT proceedings submissions: 5 June 2016
- Conference: 23-26 August 2016
Iasi is a charming city in the North-East of Romania. The size of its population is about 300'000 inhabitants. Iasi is the most important historical, economic, and cultural center in Northeast Romania. The archaeological researches have discovered in this area traces of the ancient Culture of Cucuteni, flourishing about 5000 years ago. More information can be found at www.turism-iasi.ro or http://en.wikipedia.org/wiki/Ia%CF%89i.

Iasi hosts 7 universities, that is why is also called a student city. The “Alexandru Ioan Cuza” University of Iasi (UAIC) is the oldest university in Romania (1860). Some information can be found at www.uaic.ro/en or http://en.wikipedia.org/wiki/Alexandru_Ioan_Cuza_University. The main (historical) building would be a great venue (Figure 1).

![Figure 1. The main building of the “Alexandru Ioan Cuza” University of Iasi.](image)

The are several rooms that could be used. The biggest capacity one - 426 seats - is the Aula magna (Fig. 2(a) and Fig. 2(b)). There is also the Senate room with 140 seats capacity (Fig. 2 (c)) and another about 10 lecture rooms that can be used for parallel sessions. The main lobby (Fig. 2 (d)) has a surface of 600 sqm. It can be used for registration and poster sessions.
Figure 2. Rooms in the main building of the “Alexandru Ioan Cuza” University of Iasi.

DATES
The proposed period is 28-31 of August 2018.

CHAIR
Cristian Gatu, “Alexandru Ioan Cuza” University of Iasi, Romania

WEB ADDRESS
www.compstat2018.org (to be confirmed)

ACCOMMODATION
The following hotels are located in the proximity of the University.

- **Unirea Hotel (4*)**: [http://www.hotelunirea.ro/](http://www.hotelunirea.ro/)
- **International Hotel (4*)**: [http://hotelinternationaliasi.ro/](http://hotelinternationaliasi.ro/)
- **Select Hotel (4*)**: [http://www.selectqrup.ro/](http://www.selectqrup.ro/)
• Traian Hotel (4*): http://www.grandhoteltraian.ro/
• Astoria Hotel (4*): http://www.hotelastoria.ro/
• Moldova Hotel: http://www.hotelmoldovaiasi.ro/

A limited number of rooms could be available at the University campus

• Gaudeamus Hotel
• Akademos Hotel

Estimated distance to the conference venues

• Gaudeamus Hotel - 0.35 km
• Akademos Hotel - 0.80 km
• Unirea Hotel - 1.09 km
• International Hotel – 2.6 km
• Astoria Hotel - 1.02 km
• Traian Hotel - 1.05 km
• Select Hotel - 1.23 km
• Moldova Hotel - 2.22 km

Few restaurants:

• Restaurant Unirea http://www.hotelunirea.ro/ro/restaurante/iasi#1
• Restaurant La Castel http://www.lacastel.com/
• Dopopoco Trattoria http://www.dopopocotrattoria.ro/
• Berăria-Veche https://www.facebook.com/pages/Beraria-Veche/307977875960693
• Restaurant Buena-Vista http://www.restaurant-buena-vista.ro/
• Restaurant Oscar http://www.restaurant-oscar.ro/
• Restaurant Ristretto http://ristretto.ro/

**TRAVEL**

**BY PLANE:**

The closest airport is Iasi International Airport (IAS): http://www.aeroport.ro. It is located about 10 km from the hotels and University campus. The airport is operated by the following air companies:

1. TAROM http://www.tarom.ro.
2. AUSTRIAN AIRLINES http://www.aua.com
3. WIZZAIR https://wizzair.com/

From the Iasi Airport, downtown hotels and the conference location can be reached within 20 minutes by car. A taxi ride costs around 30 RON (7 €):

3. For You Taxi, http://foryoutaxi.ro/

There is also regular bus connection to the city center. A bus ticket costs 2 RON (about 0.5 EUR). Another major

**BY TRAIN:**
The duration of a land transfer from Bucharest to Iasi is about 7 hours. Information can be found at [www.infofer.ro](http://www.infofer.ro).

**BY CAR:**
You can plan your trip using ViaMichelin ([http://www.viamichelin.fr/](http://www.viamichelin.fr/)).

**VISA INFORMATION:**
Citizens of many countries, including all EU countries and the US, do not need a visa for a short visit to Romania.

Cristian Gatu, COMPSTAT 2018 Chair
For the 2015 Data Competition, winners were invited to present their results at the Joint Meeting of IASC-ABE Satellite Conference for the 60th ISI WSC 2015 to be held at Atlântico Búzios Convention & Resort in Búzios, RJ, Brazil (August 2-4, 2015), and to submit a manuscript for possible publication (following peer review) to IASC's official journal, Computational Statistics & Data Analysis. The grant for presenting the work was 1000 €. The deadline for final submissions was 15 April 2015 and later was extended until 10 May 2015.

The poster had to specify how others can obtain data, i.e., entrants were required to list the starting URL and the steps required to obtain the data. The data sets had to come from one or more climate-related database as well. One of the goals of this competition was to connect the information from different data sets to obtain interesting and original conclusions. Posters were judged according to these criteria:

1. Appropriateness of analysis
2. Novelty of approaches used in the analysis
3. Clarity of objectives, approaches, displays, and results
4. Significance of findings
5. Generalizability of approaches to data sets in other arenas.
6. Overall quality of poster

Judges were

- Ann Maharaj - Australia
- Chun-houh Chen - Taiwan
- Fionn Murtagh - UK
- André de Carvalho - Brazil
- Paulo C Rodrigues - Brazil
- David Banks – USA

There were 5 participants in the competition:

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<td>Modeling Extreme Hurricane Damage in the US</td>
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<td>A Statistical Model for temporal downscaling of precipitation</td>
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<td>*Seungwon Lee, Chengxing</td>
<td>USA</td>
<td>Climate Model Diagnostic Analysis with Conditional Sampling</td>
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<td>Zhai, Lei Pan, Benyang Tang,</td>
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<td>Jonathan Jiang</td>
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<td>Jihyun Park, Jingeol Ryu</td>
<td>Korea</td>
<td>The Electricity Load Forecasting Model Using Climate and Economic Data</td>
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<td>S. Dutta, S. Ray, S. Roy</td>
<td>USA</td>
<td>Is there a correlation between weather and weather-related tweets? - A study</td>
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*winner

The full information about the winning entry is:
• Work: Climate Model Diagnostic Analysis with Conditional Sampling
• Authors: Seungwon Lee, Chengxing Zhai, Lei Pan, Benyang Tang and Jonathan Jiang
  Jet Propulsion Laboratory, California Institute of Technology, Pasadena, CA, USA

ERS-IASC YOUNG RESEARCHERS AWARD 2014

The selection committee was:
• Ana Colubi - Spain
• Elvezio Ronchetti - Switzerland
• Manfred Gilli - Switzerland

There were 10 candidates. The award went to
• "Unsupervised learning using Gaussian mixture copula model"
• Authors: Sakyajit Bhattacharya and Vaibhav Rajan ants