

6th International Conference Implicative Statistic Analysis

Caen (France) 7-10 November 2012



University of Caen

A.S.I. 6

<http://sites.univ-lyon2.fr/asi6/>

Call for papers

The deadlines are the following: : April 15th, 2012

Jean-Claude Régnier, President of scientific and programme committee

(University of Lyon) jean-claude.regnier@univ-lyon2.fr

Régis Gras, Honorary President

(University of Nantes) regisgra@club-internet.fr

Marc Bailleul, Vice-Chairman of scientific and programme committee and Chairman of the organizing committee

(University of Caen) marc.bailleul@unicaen.fr

We are pleased to invite you to participate in this conference ASI 6 proposes a communication or a poster or more of the following topics:

- Fundamental Concepts of ASI: statistical modelling, types of variables, and additional key variables;
- New Advances in progress, stability indices, extension to new types of variables, rules of exception, duality (space of subject- space of rules), metrical structure and topology of space led by their contribution to the subjects or their typicality, vector analysis, etc ...);
- Comparison of critical processes, models, representations and the results of the ASI with other methods of data analysis (Galois lattices, Bayesian networks, trees induction, factorial analysis, etc ...);
- Practice with the software CHIC, current and expected developments;
- Applications processed by ASI and comparison with other methods, in the areas of education, science education, psychology, sociology, economics, art history, biology, medicine, archaeology, etc.;
- graphical presentation of results and numerical applications, aid the interpretation of these results, respective roles and critics of the types of variables, the main variables and supplementary choices;
- Specificity of training with the ASI: use of software CHIC, interpretation of graphical representations (implicative graph, tree hierarchy cohesive)
- Issues of teaching in ASI;

Recall that the implicative statistical analysis is to discover the shape and structure of rules, a set of data across subjects (or objects) and the variables from a statistical modelling of quasi-implication: *if the variable or combination of variables \mathbf{a} was observed in the population, then in general the variable \mathbf{b} it is*. The variables involved can be of various types: binary, modal, numeric, range, fuzzy, ... The set of rules obtained can be structured with several

complementary approaches (implication graph, hierarchy oriented). The display of results, as their interpretation is easy with the software CHIC (Classification Hiérarchique implicative et Cohésitive).

By A.S.I. 6 want to preserve the spirit of both science that warm, either rigorous of the five previous meetings (Caen-France, São Paulo-Brazil, Palermo-Italy, Castellón-Spain, Palermo-Italy). The Scientific Committee composed of specialists from various sources will ensure the scientific quality of the work proposed. These will be communicated and published in the Proceedings recognized scientifically. By their novelty, they will prolong the three published works recently:

- *Statistical Implicative Analysis*, R.Gras, E. Suzuki, F.Guillet and F.Spagnolo, Eds, Springer-Verlag, Berlin-Heidelberg (2008)
- *Analyse Statistique Implicative. Une méthode d'analyse de données pour la recherche de causalités*, sous la direction de Régis Gras, Réd. invités Régis Gras, Jean-Claude Régnier, Fabrice Guillet, Cépaduès Ed. Toulouse (2009)
- *Teoria y Aplicaciones del Analisis Estadistico Implicativo*, Eds : P.Orus, L.Zemora, P.Gregori, Universitat Jaume-1, Castellon (Espagne) (2009)
- *Analyse Statistique Implicative, Objet de recherche et de formation en analyse des données, outil pour la recherche multidisciplinaire, Prolongement des débats*. Régnier J.C., Gras R., Spagnolo F., Di Paola B. (Eds) (2011) ISSN on-line 1592-4424, Palerme: Université de Palerme.

By ASI 6 we also want two challenges proposed in the theoretical debates in Palermo: What about the continuous nature of space issues? what about the post structure of this space with respect to contributions of these subjects' own structure obtained by the ASI on all the variables?

Submission: Proposals communications may not exceed a maximum of 30 pages in a format conforming to the style sheet on the website:

http://sites.univ-lyon2.fr/asi6/format/ASI6_FormatWord.zip

We have already specified that the text should be in Times New Roman 12, spacing 1.5 and on the first page, you must include the title of the work, the name (s), affiliation (s) of author (s), e-mail of each author, an abstract (in French and English) maximum of 500 words each. If the text is in Italian, Spanish or Portuguese will also require a summary in the language used.

Proposals for posters will be made on a page listing the title, the name (s), affiliation (s) of author (s), address and email of each author of more than 500 words in Times New Roman 12, spacing 1.5.

The **poster** should follow a format to be defined as in the following web address:

<http://sites.univ-lyon2.fr/asi6/?page=poster&lang=en>

Language:

The written text can be presented in one of five languages: English, Spanish, French, Italian or Portuguese. But oral communication must be based on a presentation that will be in French or English.

Sending proposals in .Doc and .PDF

The texts will be sent by email in either Word.doc and PDF formats at:

asi6soumission@gmail.com

before **April 15th 2012** to be submitted anonymously to the Scientific Committee (3 experts for article).

Name file : ASI6_*nompremierauteur*.doc et ASI6_*nompremierauteur*.pdf