Behaviormetrika Special Issue: "Bayesian networks and its applications" Call for Papers

Guest Editors: Maomi Ueno (The University of Electro-Communications), Russell Almond (Educational Testing Service), Robert J. Mislevy (University of Maryland), Chao-Lin Liu (National Chengchi University)

A method of reasoning using probabilities--variously called Bayesian networks, belief networks, among others--has become popular within the probability and uncertainty community. Recently, much effort has been spent developing the applications using the method to process large data sets, such as "data mining," "Web Intelligence," and "decision support system."

To bring additional attention to this work, the journal "Behaviormetrika" is calling for papers for a special issue on "Bayesian network and its applications" to be published July, 2008. The submission deadline is November 20, 2007.

Topics of interest include, but are not limited to, the following:
- ☐ Basic research on Bayesian networks
- ☐ Learning Bayesian networks
- ☐ Probabilities Propagations algorithms
- ☐ Data mining methods based on Bayesian networks
- ☐ Test theories and Bayesian networks
- ☐ Psychometric studies and Bayesian networks
- ☐ Marketing science and Bayesian networks
- ☐ Web Intelligence and Bayesian networks
- ☐ Human interface and Bayesian networks
- ☐ Human Behaviors analysis and Bayesian networks
- ☐ Naïve Bayes and Bayesian networks
- ☐ Bayesian artificial intelligence

Paper submission deadline:

November 20, 2007

Paper submission:

Behaviormetrika publishes original research papers and notes as well as invited papers, concerning theory, methodology, and application in all areas of behaviormetrics. For non-invited papers (regular submission) at least one author should be the society member. Papers submitted from abroad are not subject to this

restriction, but a publication fee will be charged for non-members. All papers except for invited papers will be reviewed.

Four copies of each manuscript should be sent to the Chief Editor, Tatsuo Otsu, Research Division, National Center for University Entrance Examinations, 2-19-23 Komaba, Meguro-ku, Tokyo 153-8501 Japan.

Except for rare cases, manuscripts should not exceed 20 journal pages (approximately 13,000 words). All manuscripts should be typed on white bond paper (8 1/2×11" or A4) and double-spaced throughout, including references, footnotes, and abstract. Each page of the manuscript should be numbered.

The first page should contain the title, author's name, and affiliation. At the bottom of this page, the name and complete mailing address of the person to whom proofs are to be sent should be indicated. The second page should contain an abstract of approximately 120 words. Below the abstract, 5 to 10 key words and phrases should be listed.

In the text, sections should be numbered in order, such as "2. Experiment," "2.1 Method," and "2.2. Apparatus." Equations in the text should be numbered in parentheses to the right of the equation such as (1.2.3), indicating the third equation in Section 1.2. Equations should be cited as equation such as Eq. (1.2.3) or simply (1.2.3), except at the beginning of the sentence in which the word Equation should be fully spelled out. Every symbol in the text and footnotes should be underlined in order to be italicized (symbols in equations will automatically be italicized unless otherwise indicated).

Footnotes in the text should be identified by superscript numbers as 1), 2), and listed consecutively on a separate page.

Tables and figures should be typed or drawn clearly on separate pages, each page containing only one table or figure, and should be numbered consecutively. Captions and headings of figures should be listed on separate pages.

References should be cited in the text by author's last name and the year of publication such as Magnus and Neudecker (1988), O'Hagan (1994, pp. 63-95), or Rummelhart et al. (1986a, 1986b).

A list of references should be alphabetized and typed on separate pages. Journal titles should be typed out gully without abbreviation. Names of multiple authors should be the translation in parentheses.

Examine the following examples.

> Akaike, H. (1973). Information theory and an extension of the maximum likelihood principle. In B.N. Petrov & Casaki (Eds.), *Second international symposium on information theory* (pp. 267-281). Budapest: Akademiai Kiado.

American Psychological Association. (1994). *Publication mannual of the American Psychological Association* (4th ed.). Washinton, DC: Author.

Anderson, T.W. (1984). *An introduction to multivariate statistical analysis* (2nd ed.). New York: Wiley.

Bentler, P.M., Poon, W.Y., & Lee, S.Y. (1988). Generalized multimode latent variable models: Implementation by standard programs. *Computational Statistics and Data Analysis, 6*, 107-118.

Hayashi, C. (1992). Quantitative social research -Belief systems, the way of thinking and sentiments of five nations. *Behaviormetrika, 19*, 127-170.

Magnus, J.R. & Neudecker, H. (1988). *Matrix differential calculus with applications in statistics and economics.* New York: Wiley.

O'Hagan, A. (1994). Bayesian inference. *Kendall's advanced theory of statistics* (Vol. 2B). London: Edward Arnold.

Yanai, H., Shigemasu, K., Mayekawa, S., & Ichikawa, M. (1990). *Inshi bunseki - Sono riron to houhou* (Factor analysis: Theory and methods). Tokyo: Asakura Shoten (in Japanese).

The author receives 100 reprints of his article. The author may be charged the extra costs for printing and professional preparation of tables and figures.

If you have any further questions, please contact the chief editor Prof. Otsu at otsu@rd.dnc.ac.jp or the guest editor Assoc.Prof. Maomi Ueno (The University of Electro -Communications) at ueno@ai.is.uec.ac.jp