Special Track on "Probabilistic & Statistical Models in Industrial Plant Control"
for INCOM2009

June 3-5, 2009, Moscow, Russia
http://incom09.org/
http://ifac.papercept.net/

Track Chairs:

- *Pr. Alexander Mandel, Trapeznikov Institute of Control Sciences of the Russian Academy of Sciences , Russia, manfoon@ipu.ru*
- *Pr. Igor Nikiforov, University of Technology of Troyes, France, nikiforov@utt.fr*

The goal of this Track is to present the advances in probabilistic and statistical models and methods in industrial plant control. Probabilistic and statistical models are widely used nowadays to design an optimal industrial plant control strategy, inventory control algorithms, industrial system monitoring algorithms, quality control charts and diagnosis algorithms, etc. There is a lot of different criteria of optimality motivated by economical, technical, organizational or, recently, ecological needs. It is proposed to widely discuss all these points in the framework of the track "Probabilistic & Statistical Models in Industrial Plant Control". A special attention will be paid *to answer* the following question: how the practical needs are linked to the theoretical (mathematical) criteria and models.

Track topics:

The probabilistic and statistical models represent a mathematical basis for many applications in manufacturing. The list of suggested topics, which is not exhaustive, is as follows:

- Probabilistic & statistical models and methods of industrial plant and inventory control in case of uncertainty (including regression, times series, state-time, discrete, continuous models, etc.)
- Quality control charts and their optimization with respect to different criteria
- Probabilistic & statistical models of monitoring, diagnosis and maintenance of manufacturing systems
- Probabilistic & statistical models of distributed sensor networks

Submission

Submitted papers (6 pages in IFAC double column format) will be reviewed by at least two referees, see submission site http://ifac.papercept.net/ Both academic and industrial oriented communications will be considered. All papers accepted for presentation will appear in the Preprints and will be distributed to the participants. Papers duly presented at the Symposium will be archived in the form of Proceedings published at IFAC-PapersOnline.net by Elsevier. Further submission instructions are available on the IFAC website www.ifac-control.org. Several international journals are associated with the symposium for publication of special issues.

For a submission to this Track, please use "invited paper" option of the system, and then assign the paper to the invited session Probabilistic & Statistical Models in Industrial Plant Control (the code is **Bxmye**).

Important dates:

November 15, 2008: deadline for paper submission
January 6, 2009:   notification of acceptance/reject
March 15, 2009:   deadline for final paper.