

Invited session: Probabilistic and Statistical Models in Industrial Control and Logistics

Session chairs: Prof. Alexander Mandel (V.A.Trapeznikov Institute of Control Sciences, Russia)
Prof. Igor Nikiforov (Univ. de Tech. De Troy, France)

Description:

In numerous cases of industrial and logistical system control one should recognize the stochastic nature of various processes underway in those systems. For mathematical description of such systems to be adequate, models and approaches are needed for solution of essentially applied models of probability theory and mathematical statistics. The relation is of special interest between control solutions found with the use of probabilistic and statistic models and solution found for similar (as far as their applied essence is concerned) deterministic models worked out with the use of mean values(trends) of associated random processes.

In numerous cases this approach makes it possible to employ in the solution one deterministic and one stochastic components, even though in a general case this division proves either out the of question or to make no sense.

There will be a dedicated session on “probabilistic and statistic models in industrial control and logistics” at the upcoming IFAC Conference on Manufacturing Modeling, Management and Control. The organizers would like to invite theoretical and/or empirical contributions that would enhance the current knowledge in this field. The session would address various aspects of probabilistic and statistical models in industrial control and logistics research.

Potential topics include, but are not limited to:

- Random Processes in Manufacturing and Inventory Control and Their Modeling
- Controllable Queuing Systems
- Statistic and Probabilistic Models in Transport Logistics Problems
- Supply Chains Control Problems In Probabilistic Statement
- Statistical Inferences and Classification Problems

Contacts: almandel@yandex.ru, igor.nikiforov@utt.fr

For author guidelines, please refer to <http://www.mim2013.org>.

Important dates: November 30, 2012: deadline for submission of invited papers.

February 1, 2013: notification of paper acceptance/rejection.

April 15, 2013: final paper submission and early registration.

Proposal submitted to 2013 IFAC Conference on Manufacturing Modelling, Management, and Control. Received November 16, 2012.