

НАЦИОНАЛЕН СЕМИНАР ПО СТОХАСТИКА

секция „Изследване на операциите, вероятности и статистика“

Поредната сбирка на *Националния семинар по стохастика* ще се проведе на **27 ноември 2019 г.** (сряда) от **14:00** часа в зала **403** на ИМИ-БАН. Доклад на тема:

"Statistical calibration of numerical models"

ще изнесе Marek Brabec (Institute of Computer Science, Czech Academy of Sciences).

Abstract: We will present a general semiparametric approach to calibration of numerical model against measurements and illustrate it on large-scale data from ongoing projects.

The measurement of the air pollution is typically sparsely located in space. Physically formulated mesoscale weather prediction models (WRF) coupled with chemical transport models (CAMx) can provide valuable source of additional information. Physical/chemical/transport models can be viewed as a formalized post-processing of emission and weather data adhering to basic physical/chemical laws via massive computations based essentially on PDE solvers. Due to errors in inputs or numerical model (NM) formulation, the raw output of the NM is not overwhelmingly precise on small spatio-temporal scales of interest. We approach this problem as a semiparametric, time-varying calibration of the raw NM against available pollutant concentration measurements.

Поканват се всички интересувачи се.