

平成27年度第3回情報数理学セミナー

日時：平成27年5月14日（木） 13:00～14:30

場所：吹田キャンパス 情報棟A109室

特別講演

講師：Gianluca Mola（ミラノ・ポリテクニク・講師）

講演題目：Direct and inverse problems for linear parabolic equations

アブストラクト：In the lecture we shall approach the basic notion of inverse problem and its well-posedness in the sense of Hadamard: existence, uniqueness and continuous dependence on the data. Also, we shall discuss the relationship between an inverse problem and the related direct problem. Moreover, recent developments in this subject will be presented. In particular, a very simple (although meaningful) model will be considered, i.e. a linear reaction-diffusion equation of parabolic type. The results consist in the identification of constant coefficients under additional measurements, often called overdeterminating conditions, on the solution of the initial-boundary value problem.