広島統計談話会

Hiroshima Statistics Study Group

第 262 回談話会を下記のように開催致しますので

御参集下さいますようご案内申し上げます。

You are cordially invited to the 262nd meeting as scheduled below.

日　時：　　　2011 年 1 月 28 日（金）15:00 –
Date　：　　　January 28, 2011 (Fri) 15:00 –

場　所：　　　放射線影響研究所　講堂
Place　：　　　RERF Auditorium

演　者：　　　林 賢一 （大阪大学大学院 基礎工学研究科 博士課程学生）
Speaker　：　　Kenichi Hayashi, Ph. D. candidate
　　　　　　　Division of Mathematical Science,
　　　　　　　Graduate School of Engineering Science, Osaka University

演　題：　　　「非対称ミスラベルデータの判別法」
Title　：　　　 "Classification methods for asymmetric mislabeled data"

要　約：
Abstract:

Asymmetric mislabeled data include some cases which have incorrect labels and probabilities to be mislabeled depend on the true labels. The data are often obtained by researches in social sciences and medical sciences. Because of asymmetricity of mislabeling probabilities, the classifier that attains the minimum error rate for the observed labels is different from the one for the true labels, which would usually be a target of estimation. In this talk, some binary classification methods for asymmetric mislabeled data are proposed and it is shown that they can construct the Bayes classifier for the true labels. It is also shown that a connection between proposed methods and cost-sensitive learning (for example, Viola and Jones, 2003). Numerical experiments are conducted and the results illustrate how well the proposed methods perform for asymmetric mislabeled data.