

CLASSIFICATION USING BAYESIAN APPROACH: GAUSSIAN CASE

Iuliana Florentina IATAN, Technical University of Civil Engineering,
Bd. Lacul Tei, no. 124, Bucharest, Romania,
e-mail iuliafi@yahoo.com

Abstract

The aim of this paper is the Bayesian estimation techniques to obtain the form of the a posteriori density $p(\theta|D)$ and the desired probability density $p(x|D)$ in the case when $p(\mu|D) \sim N(\mu, \Sigma)$.

This approach, is then used in Bayesian classification.

AMS Subject Classification: G2C10, G2E17

Keywords: Bayesian estimation, a posteriori probability, a priori probability, Bayes theorem, conditional distribution, posterior distribution