

# Conferencia

# SANTALÓ 2006

La *Facultad de Ciencias Matemáticas* y la *Revista Matemática Complutense*, patrocinan la conferencia anual Santaló, impartida cada año por un profesor de reconocido prestigio. Esta conferencia marca el inicio de la actividad docente e investigadora de la Facultad en cada año académico.

## N. Balakrishnan

Department of Mathematics and Statistics  
McMaster University, Hamilton, Ontario (Canadá)

### Permanents, Order Statistics, Outliers, and Robustness

In this talk, I shall first introduce "permanents", and then elaborate on the important role it plays in many statistical problems. Specifically, I will describe some of its use in statistical distribution theory, order statistics and the theory of outliers. Next, I will make use of permanent representation for distributions of order statistics to handle the problem of multiple outliers, and develop an efficient recursive scheme for the computation of moments of order statistics from a multiple-outlier model. These results will in turn be used in order to discuss the robustness of estimators of location and scale parameters for different distributions.

**MARTES, 3 DE OCTUBRE DE 2006**  
**13:00 HORAS**  
**AULA S-118 "MIGUEL DE GUZMÁN"**  
**FACULTAD CC. MATEMÁTICAS**



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