MATHEMATICS FOR daTa ScieNce

AYANENDRANATH BASU (INDIAN STATISTICAL INSTITUTE)

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SHORT BIO

Ayanendranath Basu is a Professor at the Interdisciplinary Statistical Research Unit, Indian Statistical Institute, Kolkata. His research interests are in the areas of minimum distance inference, robust inference, multivariate analysis, categorical data and biostatistics. He has written over one hundred peer reviewed articles in reputed international journals, has co-authored two books and has jointly edited four books.

He has supervised four Ph.D. thesis, and is currently supervising three more.

AN INTRODUCTION TO **DENSITY-BASED MINIMUM DISTANCE METHODS**

A SHORT COURSE AT THE DEPARTMENT OF MATHEMATICS

The approach to statistical inference based on the minimization of a suitable statistical distance (or divergence) is a useful and popular technique. It has natural applications in the areas of parametric estimation and parametric tests of hypothesis, together with many non-parametric uses. It is also widely used in other fields such as information theory, machine learning and pattern recognition. The scope of application of minimum distance techniques has increased greatly over the last three or four decades with the emergence of the area of robustness, where these techniques are seen to be extremely useful. At the same time, complicated divergence based applications have become easy to implement with the exponential growth in computing power.

He is a fellow of the Indian National Academy of Sciences and West Bengal Academy of Science and Technology. He was also the recipient of the C.R. Rao National Award in Statistics, 2007. He is a former editor of Sankhya, the Indian Journal of Statistics, Series B, and belongs to the editorial board of several other international journals.

INFORMATION:

datascience.maths.unitn.it/events/dbmdm2018/







Dipartimento di Matematica

SCHEDULE

• Wednesday 2018/07/11 09.00-13.00

DETAILS

- Venue: Polo Scientifico e Tecnologico F. Ferrari Room A108
- Language: English
- Admission: Course is open to everyone and free.
- How to apply: send an email to Claudio Agostinelli (claudio.agostinelli@unitn.it)