

6TH ANNUAL PROBABILITY AND STATISTICS DAY AT UMBC

FUNDED BY NATIONAL SECURITY AGENCY

FRIDAY, APRIL 20, 2012
ROOM 105, PUBLIC POLICY BUILDING

Workshop on
An Introduction to Bootstrap and Its Applications
presented by
Professor Jun Shao
University of Wisconsin - Madison

FINAL PROGRAM

PROGRAM CHAIR

Anindya Roy, Professor, Department of Mathematics and Statistics, UMBC

1:30PM - 2:00PM REGISTRATION
LOBBY

2:00PM - 2:15PM WELCOME

- Nagaraj Neerchal, Chair, Department of Mathematics & Statistics, UMBC
- Bimal Sinha, Conference Chair, UMBC

2:15PM - 3:15PM LECTURE I: Introduction

Motivation
Generating Bootstrap Samples
Variance Estimation
Hypothesis Tests

3:15PM - 3:30PM COFFEE BREAK

3:30PM - 4:30PM LECTURE II: Confidence Intervals

Bootstrap Confidence Intervals
Accuracy Comparison

4:30PM - 4:45PM COFFEE BREAK

4:45PM - 5:45PM LECTURE III: Special Topics

Bootstrap for Stratified Data
Bootstrap for Dependent Data
Bootstrap for Imputed Data
Bagging and Bumping