



Clarkson™

Statistics Workshop

May 9-10, 2019

Bayesian Decision-making and Applications

Venue: Snell 241

May 9 (Thursday): 9:00 AM - 1.00 PM

May 10 (Friday): 9:00 AM - 1.00 PM

Topics:

1. Conditional Probability and Bayes Original Formula
2. From Bayes Original Formula to Classical Bayesian Approach in Statistics
3. Posterior Distribution and Various Forms of Bayes' Rules (With or Without a Loss Function)
4. Role of the Prior Distribution
5. Informative Prior and Non-informative Prior, Non-informative Priors for Location and Scale Parameters
6. Jeffreys Prior Distribution (Both Uni-Parameter and Multi-Parameter Cases)
7. The Concept of Empirical Bayes Set-up
8. The Method of Bayesian Prediction.
9. Some Comments About Robustness in Bayesian Inference

About the Speaker: Nabendu Pal is a Professor of Statistics in the Department of Mathematics, University of Louisiana at Lafayette (ULL), where he has been a faculty since Fall, 1989. Prior to joining ULL, Prof. Pal earned his Bachelor of Statistics (B. Stat) as well as Master of Statistics (M. Stat) degrees from the Indian Statistical Institute, Calcutta (Kolkata), back in 1984 and 1986, respectively, followed by his PhD degree in 1989 from the University of Maryland Baltimore County (UMBC). So far he has (co)-authored more than hundred research publications in peer-reviewed scientific journals, and two books. Professor Pal's research areas include Decision Theory, Bayesian Analysis, Biostatistics, Reliability & Life Testing. Lately he is getting more involved in Computational Statistics and Data Sciences. He is a frequent visitor to other universities as well, especially in India, Thailand, Vietnam, and Taiwan, where he conducts workshops, supervises doctoral students, and/or teaches short courses regularly. As an ardent follower of D. Cox, he truly agrees with the statement that - "All models are wrong, but some are useful". Apart from Mathematical Sciences, his varied interests include Economics, History, Geography, International Relations and Current Politics. He loves to debate on contemporary issues, and strongly believes that "Democracy Dies when the Debate Ends".

NABENDU PAL, Ph.D.

DEPARTMENT OF MATHEMATICS

**UNIVERSITY OF LOUISIANA AT
LAFAYETTE**



**Organized by Department of
Mathematics, Department of Biology,
and Data Analytics Program, Clarkson
University**

Workshop is free of charge; however,
REGISTRATION IS REQUIRED

For more information about the workshop
please contact Sumona Mondal
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(fullerdt@clarkson.edu)

Light refreshments will be provided to
workshop attendees.