



Meiji University Global COE Program 28th Mathematical Sciences based on



Modeling, Analysis and Simulation seminar

Date: July 22, 2010, 16:30~18:00

Location: Meiji Univ. Ikuta Campus, Build 2 Annex A, Room A207

Hai-Yen Siew (Meiji Univ.)

Title : The generalized t -distribution on the circle

Abstract : An extended version of t -distribution on the unit circle is generated by conditioning a normal mixture distribution, which is broadened to include not only unimodality and symmetry, but also bimodality and asymmetry, depending on the values of parameters. After reparametrization, the distribution contains four circular distributions as special cases: symmetric Jones-Pewsey, generalized von Mises, generalized cardioid and generalized wrapped Cauchy distributions. As illustrative examples, the proposed model is fitted to the number of occurrences of the thunder in a day and the monthly wind directions of Ryori in 1995.

Everyone is welcome to attend the MAS seminar.

Meiji institute for Advanced Study of Mathematical Science (<http://www.mims.meiji.ac.jp>)

(Organizers: M. Mimura, D. Ueyama, Y. Wakano, K. Ikeda and S.Kinoshita)

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Access: 10 minutes on foot from Ikuta St. Odakyu line,
Or 10 minutes by bus No. 13「明治大学正門前」, get off at the last stop.
See http://www.meiji.ac.jp/koho/campus_guide/ for details.