UNIVERSIDAD DE GRANADA

Departamento de Estadística e Investigación Operativa

CICLO DE CONFERENCIAS ESTADÍSTICA Y CIENCIA DE DATOS PATRICIA ROMÁN

28/10/2023

Título: **Poisson Processes and Point Poisson Processes with applications in reliability**.

Fecha y hora: **3 de noviembre** del 2023 (**12.00 horas**)

Lugar: **Sala de Conferencias del IMAG**, UGR

Conferenciante: **Prof. Nikolaos Limnios** (Université de Technologie de Compiègne, France)

Resumen: This talk includes in a first part the presentation of Poisson processes, homogeneous and nonhomogeneous, with applications in software reliability, the compound Poisson process with applications in shock models and Cramér-Lindberg process in insurance. The second part includes the presentation of Poisson point processes and marked processes, with applications for systems undergoing shocks and cracking failures.

Reseña del autor: Nikolaos Limnios received his diploma from the AUTh, Greece in 1979; his DEA from University of Technology of Compiegne (UTC), France in 1980; and his Ph.D. in 1983 from the same university. He received his Doctorat d'Etat in 1991 from UTC. He is a Professor in Applied Mathematics at UTC since 1993. He is the co-author of the books Semi-Markov Processes and Reliability (Birkhäuser, 2001); Stochastic Systems in Merging Phase Space (Word Scientific, 2005); and Semi-

Copyright© 2026 Universidad de Granada

Markov Chains and Hidden Semi-Markov Models toward Applications (Springer, 2008); Applied Nonparametric Statistics in Reliability (Springer, 2011); Applied Probability - From Random Sequences to Stochastic Processes (Springer, 2018).

Copyright© 2026 Universidad de Granada