

Colóquio Interinstitucional

Modelos Estocásticos e Aplicações

Quarta-feira, 26 de março de 2014

Programa

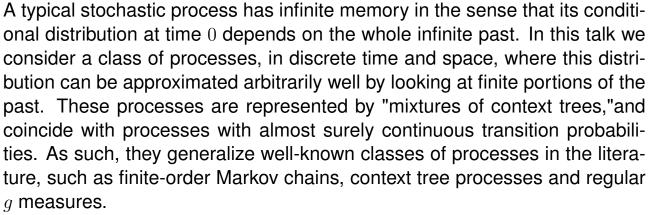
14:00 - 15:20 - Thomas Mountford (EPFL - Lausanne)

Dynamic random walks with contact process environment

We discuss joint work with M.E. Vares concerning a "random walk" on $\ensuremath{\mathbb{Z}}$ whose jump rates depend on an underlying contact process in (supercritical) upper equilibrium. We show an invariance principle, though without finding an i.i.d. regenerative structure.

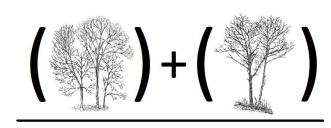
15:40 - 17:00 - Roberto Imbuzeiro de Oliveira (IMPA)

Looking at the past as little as possible



We prove the existence and uniqueness of a minimal representation for such processes, which (in some technical sense) looks at the past as little as possible. This minimality property will be shown to have important consequences. In particular, an estimator for the transition probabilities based on this representation will be shown to have good statistical properties, such as nearly optimal performance for discrete-time renewal processes.

17:00 – Discussão e lanche



http://www.natureinstitute.org/pub/ic/ic14/trees.htm

Local

Auditório 3 – IMPA Estrada Dona Castorina 110 Rio de Janeiro, Brasil





Realização:











Contatos

Augusto Teixeira (IMPA) Evaldo M. F. Curado (CBPF) Maria Eulália Vares (UFRJ) Mariane B. Alves (UFRJ) Patrícia Gonçalves (PUC-Rio) Stefan Zohren (PUC-Rio) Valentin Sisko (UFF)

augusto@impa.br evaldo@cbpf.br eulalia@im.ufrj.br mariane@im.ufrj.br patricia@mat.puc-rio.br zohren@fis.puc-rio.br valentin@mat.uff.br