

## Bonn Melbourne Seminar in Decision Making and Computational Psychiatry

### “LATER Models of Neural Decision”

Dr Imran Noorani (The Francis Crick Institute, London, UK)

#### Overview

Dr Noorani will give a talk about LATER (Linear Approach to Threshold with Ergodic Rate) models of decision making. He has recently published a book on this topic with the late Roger Carpenter. The following is a summary of the book from the publisher’s website: “Explores the neurophysiology of decision-making and the mechanisms behind procrastination, discussing the applications of the LATER model. This is essential reading for psychologists, cognitive neuroscientists, neurophysiologists interested in decision-making in addition to being highly valued by clinicians and medical students. Why is deciding to do something sometimes so slow and difficult? How do we make decisions when lacking key information? When making decisions, the higher areas of the brain deliberately suppress lower areas capable of generating much faster but ill-considered responses while they develop ones that are more sophisticated, based on what can be gained in return. In this engaging book, the authors explore the increasingly popular neural model that may explain these mechanisms: the linear approach to threshold ergodic rate (LATER). Presenting a detailed description of the neurophysiological processes involved in decision-making and how these link to the LATER model, this is the first major resource covering the applications in describing human behaviour. With over 100 illustrations and a thorough discussion of the mathematics supporting the model, this is a rigorous yet accessible resource for psychologists, cognitive neuroscientists and neurophysiologists interested in decision-making.”

**Thursday, 16<sup>th</sup> November 2023, 9am (CET)**

<https://uni-bonn.zoom.us/j/67862809703?pwd=WHM3b3lIUUFJY2x0ekxLZUhXS3UvUT09>

Meeting-ID: 678 6280 9703, Code: 193789

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