



# Amos Golan

American University, Washington, DC

Friday, September 7, 2018

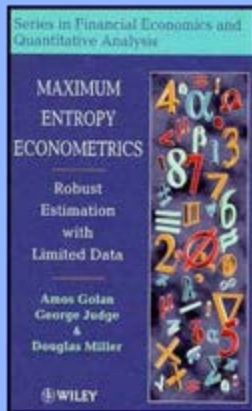
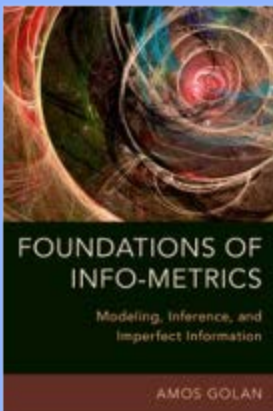
3:00 PM

Luddy Hall, Rm. 1106

## Information, Modeling and Inference: The Info-Metrics Way

**Abstract:** Our classical statistical arsenal for extracting truth from data often fails to produce correct predictions. Uncertainty, blurry evidence and multiple possible solutions may trip up even the best interrogator. Info-metrics

– the science of modeling, reasoning, and drawing inferences under conditions of noisy and insufficient information – provides a consistent and efficient framework for constructing models and theories with minimal assumptions. It reveals the simplest solution, model or story, that is hidden in the observed information. My talk will be based on my new book *‘Foundations of Info-Metrics: Modeling, Inference, and Imperfect Information,’* <http://info-metrics.org/> in which I develop and examine the theoretical underpinning of info-metrics and provide extensive interdisciplinary applications.



In this talk I will discuss the basic ideas via a small number of graphical representations of the model and theory and will present some interdisciplinary real-world examples.

**Biography** Amos Golan directs the [Info-Metrics Institute](#) at AU. His main area of research is information and the science

of modeling, reasoning, and drawing inferences under conditions of noisy and insufficient information (Info-Metrics). Golan is an External Professor, The Santa Fe Institute. Golan is a Senior Associate, Pembroke College, Oxford. Amos Golan's new book **Foundations of Info-Metrics: Modeling, Inference, and Imperfect Information** is now available from Oxford University Press.

