



Department of Decision Sciences

Statistics Seminars

One way testing by betting can improve data analysis: optional continuation

Glenn Shafer

(Rutgers Business School)

Friday October 13th 2023

12:00 pm Room 3-E4-SR03 Via Roentgen 1 Milano

Abstract

When testing a statistical hypothesis, is it legitimate to deliberate on the basis of initial data about whether and how to collect and analyze further data? My 2019 book with Vladimir Vovk, *Game-Theoretic Foundations for Probability and Finance*, says YES, provided that you are testing by betting and do not risk more capital than initially committed. Standard statistical theory does not allow such optional continuation.