

SEMINAR ANNOUNCEMENT

DEPARTMENT OF ELECTRICAL AND COMPUTER ENGINEERING
COLLEGE OF DESIGN AND ENGINEERING

Website: <https://cde.nus.edu.sg/ece>

Area: Communications and Networks

Host: Assoc Prof Vincent Y. F. Tan

TOPIC	:	Asymptotic Nash Equilibrium for the Sequential Adversarial Hypothesis Testing Game
SPEAKER	:	Ms Pan Jiachun Graduate Student, ECE Dept, NUS
DATE	:	Wednesday, 16 March 2022
TIME	:	4.00PM to 5.00PM
WEBINAR	:	Join Zoom Meeting https://nus-sg.zoom.us/j/9839098564

ABSTRACT

We formulate the sequential binary hypothesis testing problem in which an adversary is active under both hypotheses. This problem is formulated as a sequential adversarial hypothesis testing game played between the decision maker and the adversary and it is a zero-sum and strategic one. The goal of the decision maker is to minimize the expectation of stopping time to make the test more efficient, while the adversary's goal is to maximize it. We obtain the pair of strategies under which the asymptotic Nash equilibrium of the game is attained.

BIOGRAPHY

I am a Ph.D. candidate from Dept. of Electrical and Computer Engineering, NUS. My research interests include the topics in information theory and learning theory, such as first-order and second-order asymptotics in various hypothesis testing problems, self-supervised learning theory.

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