MATH COLLOQUIUM SERIES

School of Mathematical Sciences
Universiti Sains Malaysia

INTRODUCTION TO GEOGRAPHIC INFORMATION SYSTEM (GIS) AND SPATIAL ANALYSIS

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Background. Dr. Siok Kun Sek earned her Ph.D in Quantitative Economics from Christian-Albrechts Universität zu Kiel, Germany under the fellowship program (ASTS) awarded by Universiti Sains Malaysia (USM). She completed the Advanced Studies Program (ASP) organized by the Kiel Institute for The World Economy (IFW), Germany and currently is the alumni of ASP. She joined the School of Mathematical Sciences at Universiti Sains Malaysia in 2010 as a Senior Lecturer and was promoted to Associate Professor in 2017. Dr. Sek's research areas include econometrics, monetary policy analysis, panel data and nonlinear regression, energy and macroeconomics analysis. She has served as a panel reviewer for many journals including Energy, Energy Economics, Heliyon, Australian Economic Papers, EconomiA, Sage Open and The Singapore Economic Review. Besides, she also involves actively in research activities, being a Principal Investigator for several university and national grants and has served as a grant assessor.

Abstract. Spatial data consists of information about the location on the Earth. Information about locations, spaces and distances is useful as it might provide some hidden information. This information can be observed through the maps with a pattern of distribution, densities, and connections among each item. A geographic information system (GIS) is a system that turns (spatial) data into information. GIS connects data to a map by integrating all types of location information. GIS is applied in many research areas especially on crime mapping, managing networks and agricultural crops data, locating and targeting customers, etc. This seminar will introduce GIS and its applications as well as spatial analysis by demonstrating some examples.

Date: 10 September 2021 (Friday)
Time: 3:00-4:30 PM (Malaysia time)
Link: https://bit.ly/3zPkhOC (Via Webex)

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