



Surein Distinguished Lecture

Modernising Environmental Impact Assessment through AI in Hong Kong

Date: May 6, 2026 (Wednesday)
Time: 4:00 p.m. – 5:00 p.m.
Venue: Tam Wing Fan Innovation Wing Two
G/F, Run Run Shaw Building, HKU

Speaker: **Dr. Samuel Chui**
Director of the Environmental Protection Department
Hong Kong Special Administrative Region Government
Hong Kong

Abstract:

All major developments in Hong Kong must complete a comprehensive Environmental Impact Assessment (EIA) to ensure the environment is protected. The EIA process covers air, noise, water, waste, ecological, visual and landscape impacts. In this speech, Dr. Chui will discuss the development of the Hong Kong Environmental Database (HKED) - an AI-assisted GIS-based big-data platform that consolidates all relevant environmental and planning information of Hong Kong. It also provides on-line smart tools for air quality modelling, noise modelling, 3D-visual impact analysis, and automatic ecological surveys. Launched in 2022, the HKED has already been implemented for 3 years and has helped the industry to reduce the time required to complete EIA Studies by half.

Biography:

徐浩光博士現任職香港特別行政區政府環境保護署署長，他擁有超過 30 年環境工程師的經驗，曾監督「城門河改善工程」、「香港淨化海港計劃」、「有機資源回收中心」、「綜合廢物管理設施」，制定污水處理策略及排放標準，及執行環境保護法例。徐博士是污水處理的專家，在國際科學雜誌發表超過 40 篇論文，擁有超過 2500 篇引文，並取得 10 個國際及本地獎項，包括在 2025 年獲香港工程師學會 50 周年傳奇大獎—創新卓越獎(2010 年代至今)，2024 年國際水協會 (IWA) 項目創新獎金獎，及榮獲 1993-1995 年香港大學「最優秀博士獎」。他現時也是香港科技大學及香港大學的兼任教授。

Dr. Samuel H.K. Chui is now the Director of the Environmental Protection Department of the Hong Kong Special Administrative Region Government. He is an



Environmental Engineer with over 30 years of experience in the Field of Environmental Engineering. He has been responsible for sewerage infrastructure planning, setting effluent standards for effluent discharges, enforcement of environmental legislation, supervising the Shing Mun River Bioremediation Works, the Harbour Area Treatment Scheme, the O-PARK and I-PARK. Dr. Chui is an expert in wastewater treatment with over 40 international journal papers published, 2500 citations, 10 International and Local Awards, including The HKIE 50th Anniversary Legacy Award – Innovation Category Grand Award (2010s to Present) in 2025, and the Gold Prize of the International Water Association (IWA) Projects Innovation Awards in 2024, as well as the “Best Ph.D Thesis Award” of the University of Hong Kong (HKU) in 1993 – 1995. He is now an Adjunct Professor of the Hong Kong University of Science and Technology and the University of Hong Kong.

ALL INTERESTED ARE WELCOME

For further information, please contact Prof. N.X. Fang at 3917 2639.