



Mr Jacky CHAN

Associate Director and Advanced Digital Engineering (ADE) Leader, Arup

Jacky Chan is an Associate Director and the Advanced Digital Engineering (ADE) Leader at Arup leading the ADE team in Hong Kong that provides a broad range of services including technology strategy advisory, IT infrastructure design, change management, data insight and analytics.

He is experienced in the design, construction and management of IT, security and building services. He has been engaged in a wide range of projects including high-rise commercial buildings, residential buildings, hotels, mission-critical facilities, sports complexes, shopping centres, healthcare, education and research facilities and infrastructure. His work has taken him to Australia, India, Japan, Philippines, Singapore and UAE.

Topic: Neuron – a data-driven approach to smart building operations

With the wide application of digital technology and the convergence of building systems, building operators and facility managers are looking for a centralised management system with functions beyond monitoring and early warning to better manage their assets.

Neuron is such a smart solution. Developed by Arup leveraging its domain expertise in engineering, Neuron provides a platform to connect disparate building systems and equipment, making them accessible to each other and facilitating operations and maintenance.

Neuron has been successfully deployed at One Taikoo Place, making it the first artificial intelligence-enabled building in Hong Kong. Combining the computational power of AI with machine learning, Neuron transforms building operations by analysing and learning from historical datasets. It will automatically discover trends, perform energy forecasts, optimise building systems, detect faults and allow predictive maintenance.

Jacky will share how Arup is combining engineering expertise with digital technologies to help clients to leap into the new digital age of smart and sustainable buildings.



陳貫奇先生

奧雅納 副總監及先進數位化技術團隊負責人

陳貫奇先生為奧雅納副總監及先進數位化技術團隊負責人，領導香港團隊提供數碼化策略制定、IT基礎架構設計、變更管理、數據分析與洞察等諮詢服務。

他在各類項目的IT、安防和屋宇裝備的設計、建造與管理方面有著豐富的經驗。他參與過眾多項目，涵蓋高層商業大樓、住宅、酒店、體育館、商場、醫療中心、學校及研究設施和各類基建。除了香港以外，他亦曾於澳洲、印度、日本、菲律賓、新加坡和阿聯酋等地工作。

題目：Neuron—以數據驅動智慧建築運作與維護

隨著數碼技術的普及和建築系統的整合，建築營運和設施管理人員希望擁有一個集中管理平台，提供監測與預警之外更為豐富的功能，以更好地管理其資產。

由奧雅納基於工程專業優勢自主研發的 Neuron 正是這樣一個集中管理平台，它將建築內不同設備的數據進行採集與整合，更方便設施管理與維護。

Neuron 已成功應用於太古坊一座，使其成為香港首座人工智能及數碼驅動的建築。通過人工智能與機器學習，Neuron 改變了傳統的建築運作與維護方式，並實現了趨勢分析、系統優化、故障檢測及預防性維護等功能。

Jacky 將分享奧雅納如何透過自身的優勢和數碼科技去幫助客戶建立可持續發展的智慧建築。