數據的真真假假
Data Veracity

講座大綱

現今大數據年代，在日常生活中我們很容易接觸到虛假數據和資訊，例如虛假評論，合成的圖像和視頻等，追求數據真確性變得越來越重要。這講座會介紹何為數據真確性，了解分辨數據真假的方法及相關研究的發展。

In the era of big data, we can easily see data which is often imprecise or difficult to trust, such as fake comments, synthesized images and videos, etc. Our quest for data veracity becomes increasingly important. This talk will introduce what data veracity is, the methods of assessing data veracity and the development of its related research.

講者介紹

楊良河教授現任香港教育大學數學與資訊科技學系教授。他曾擔任國際統計計算協會亞洲區分會會長，及香港統計學會副會長等職務。楊教授多年來從事有關偏好學習，人工智能及大數據分析，財務及風險管理的研究，發表論文逾百篇。

Professor Philip YU is a Professor at the Department of Mathematics and Information Technology of the Education University of Hong Kong. He was the Chairperson of the Asian Region Section of the International Association of Statistical Computing, and the Vice President of the Hong Kong Statistical Society. His research interests are broad; they include preference learning, AI and big data analytics, financial risk management, and he has published more than 120 publications.

新冠肺炎的病情預測工具:
香港研發及應用的大數據分析模型
Development and Application of a Data-driven COVID-19 Prognostication Tool in Hong Kong

講座大綱

自今年1月，隨著新冠肺炎 (COVID-19) 流行病在香港爆發，所有經檢測確診的患者都被送進公立醫院接受治療。醫院管理局透過分析其電子健康紀錄系統的一系列病人數據，研發了一個數據模型，在患者入院的第1天和第5天能預測病情的嚴重程度。 該模型的預測準確率高達90%以上。 這預測工具有助疫情應變，因可根據病情預測為患者計劃臨床管理。 8月時，該模型已應用於在亞洲國際博覽館設立的社區治療設施運作上，在分流病人的臨床決策上，給醫療團隊提供一個方便的臨床參考工具。

With the outbreak of COVID-19 epidemic in Hong Kong since January this year, all laboratory-confirmed patients have been admitted to public hospitals. The Hospital Authority has developed a model to predict disease severity of patients, on their Day 1 and Day 5 of hospital admission, through analytics of a spectrum of patient data sourced from its integrated electronic health records system. The model has achieved a high predictive accuracy rate of over 90%. Prognostic tool is essential in the contingency response for the outbreak as relevant clinical management can be planned according to the predicted patients' outcome. This model has been applied to the operations at the Community Treatment Facility set up at AsiaWorld-Expo in August to provide a convenient clinical reference tool at the point of care to inform the clinical decision on triage.

講者介紹

徐麗卿女士在醫院管理局總部擔任總行政經理(統計及數據科學)長達12年，剛在2020年8月退休。她領導部門的50多位專業統計人員，負責將醫管局大量的臨床和行政數據轉化為官方統計數字，有用的信息和可行的見解，為醫管局廣泛的決策提供數據分析。除了是本研究的首席研究員外，她還為醫管局建構了許多預測模型，大數據分析和前瞻性規劃的推算工具，應用於不同範疇。

Ms Eva LH TSUI was the Chief Manager (Statistics and Data Science Department) of Hospital Authority (HA) head office for 12 years, till August 2020 upon retirement. She led the Department with over 50 professional statistical staff who share a mission to translate HA's massive volume of clinical and administrative data into official statistics, useful information and actionable insights, supporting HA in informed decision making in wide-ranging aspects. Apart from being the principal investigator of this research study, she developed a number of predictive models, big data analytics and forward-planning projection tools which are applied corporation-wide.

官方統計發布服務的最新發展
Latest Development in Official Statistics Dissemination Services

講座大綱

本講座介紹由政府統計處編製的統計數據的種類及其數據發布方法，並簡介有關數據發布服務的最新發展，包括開放數據措施和稍後推出的全新統計處部門網站。

The talk introduces the types of statistics compiled by the Census and Statistics Department and the corresponding dissemination means. It will also provide the latest development in data dissemination services of the department, including the open data initiatives and the revamped departmental website to be launched later.

講者介紹

連國樑先生現於政府統計處任職高級統計師，主要負責管理及發展統計處的數據發布服務，包括部門網站及互動數據發布系統，並處理部門落實政府開放數據政策的事宜。

Mr Jimmy LIN currently serves as a Senior Statistician in the Census and Statistics Department. He is mainly responsible for the management and development of the data dissemination services of the department, including the departmental website and the interactive data dissemination systems. In addition, he oversees the implementation of the government-wide open data policy in the department.