2021 Webinar series for SIG C3 – Intelligent Transport Systems, WCTRS Topic Area C

Performance and behavioral analytics using mobility traces in public transport systems

Date: Wednesday 4th August 2021
Time: 11am-12pm (Delft, GMT+2), 1 pm -2 pm (UAE, GMT+4), 7 pm – 8 pm (Brisbane, GMT +10)
Zoom Meeting ID: 873 0949 4246, Password: 068287
Zoom link: https://qut.zoom.us/j/87309494246?pwd=TXFXQkxkM240VXBMeDBjTjRrNU5FZz09&from=addon

Abstract

Human mobility has been known to exhibit some common features that extend beyond time and space. Automated fare collection (AFC) systems, in particular smart card data, passively collect data concerning individual mobility patterns. In this talk Prof Cats will provide an overview of how analysts and planners can capitalize on smart card data and showcase a series of studies ranging from delay propagation assessment and route choice estimation to user segmentation from cities in Europe and North America.

Speaker: Dr Oded Cats is an Associate Professor at the Department of Transport & Planning at Delft University of Technology, the Netherlands. Dr. Cats research is devoted to developing theories and models of multi-modal passenger transport networks by combining advancements simulation and operations research, behavioural sciences and complex network theory and modelling. The domain of application for most of his work is metropolitan public transport systems where he focuses on network dynamics and robustness, service operations and control, and passenger demand and flow distributions. Dr. Cats co-directs the Smart Public Transport Lab at TU Delft, leading a research group that works closely with public transport authorities and operators. He is the recipient of a European Research Council Starting Grant entitled CriticalMaaS. He is the Editor-in-Chief of the European Journal of Transport and Infrastructure Research and the leader of the international course for public transport professionals and young researchers (PPTS).