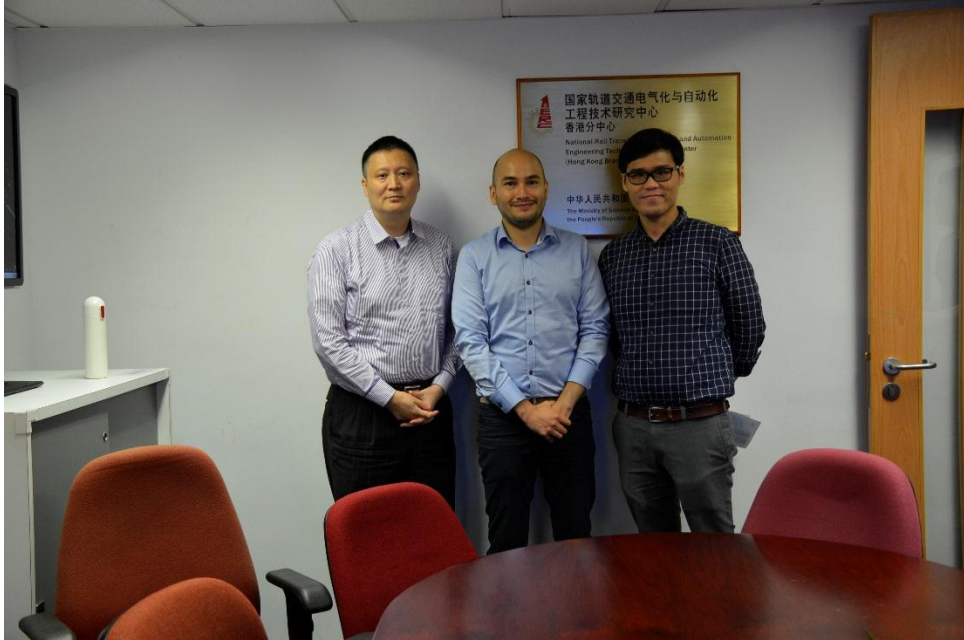


Seminar on Big Data in railway systems, some examples and challenges by Dr. Alfredo Núñez Vicencio

Dr. Alfredo Núñez Vicencio from Delft University of Technology, The Netherlands paid a visit to our Centre and delivered a seminar on Big data in railway systems, some examples and challenges on 18 July 2017. In the presentation, Dr. Nunez introduced the relevance of Big Data techniques to enhance the safety and facilitate maintenance decisions in railway infrastructure systems. First, the conditions of the V's of Big Data are discussed (Volume, Velocity, Variety, Veracity, Value, and others). Then the conditions are exemplified for the case study of axle box acceleration (ABA) measurements for the rail condition monitoring, followed by some examples. At the end, Dr. Nunez shared some challenges and concluded that new paradigms for modelling and analysis under Big Data conditions are necessary.



After the seminar, Dr. Nunez had a meeting with the Centre members and academic staff to exchange research output. Potential collaborations between the Centre and Delft University of Technology have also been explored.



Dr. Nunez with Prof. Yi-Qing Ni (Director of the Centre) and Dr. Siu-kai Lai (Assistant Professor, Department of Civil and Environmental Engineering, PolyU)