Webinar on MiC Technology
2020.11.26

CNERC and Hong Kong Constructional Metal Structures Association jointly organized a series of webinar on Modular Integrated Construction (MiC). Starting from November 2020, a series of four webinars on MiC will be held monthly to provide the latest information on research findings and engineering applications in MiC technology.

The first MiC webinar was held on 26 November 2020, and we were privileged to have Prof. Tarek Zayed, Professor of the Department of Building and Real Estate at The Hong Kong Polytechnic University to share his research findings and the engineering applications of BIM-Based Optimal MiC Installation Schedule. Over 250 engineers had attended the webinar, and the participants actively participated in the Q&A session.
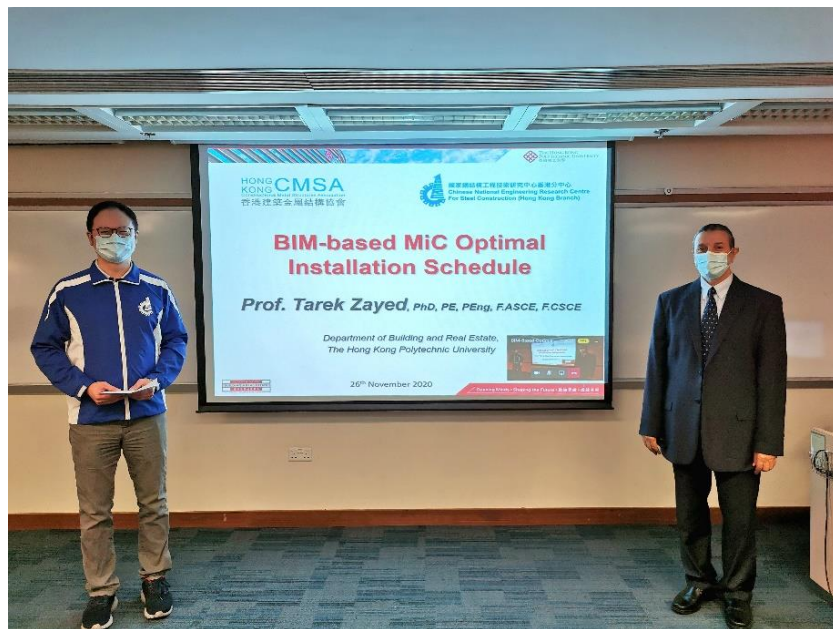
Dr. T. M. Chan, host of the webinar (left), and Prof. Tarek Zayed, speaker of the webinar (right).

Presentation Title: BIM-based Optimal MiC Installation Schedule

Abstract:

The Housing Authority targeted to build 460,000 units in the coming ten years in order to reduce the gap between supply and demand in housing. This target is very challenging without the wide adoption of innovative construction solutions, such as Modular Integrated Construction (MiC). The prefabricated/precast components of buildings will not cope with such demand to meet the intended target. The MiC is a promising technology that will expedite the construction of building units, minimize interference to the adjacent services, facilities and businesses, as well as improve productivity and safety. However, the use of MiC also poses many challenges, particularly in Hong Kong weather conditions and environment, which add more challenges to the design of MiC module connections and alignment, the construction sequence, and the optimal crane location. The impact of several factors on MiC operation scheduling will be discussed. Lessons learned from other countries, such as mainland China, Singapore and North America, will also be presented.

MiC webinar on "BIM-Based Optimal MiC Installation Schedule".