CHINA HONG KONG RAILWAY INSTITUTION

P.O. Box No. 626 Shatin Central Post Office
Fax : 2947 7001
Web Site : www.chkri.hk

8th Feb 2018

March Function: Technical Talk on Robots + Big Data Application in Rolling Stock (EMU) & Locomotive Maintenance

基於“機器人+大數據”的軌道交通機輛運維安全保障的思考與探索

Date: Monday 5th March 2018
Time: 6:30 pm to 7:30 pm
Venue: Theatre, 2/F, Fo Tan Railway House

軌道交通在當今社會的發展中發揮著重大的作用，軌道交通的需求也在不斷增加，特別是在中國，呈現出井噴爆發之勢。目前，軌道交通的需求不斷增加，機車車輛運維作業量不斷增大, 隨著軌道交通技術高速發展，現代列車科技含量不斷提升，檢修維護的技術標準要求越來越高，越來越精准。因此，軌道交通機輛的運維安全和成本的矛盾也日益突顯。現階段人員能力和檢修工藝已經無法與現代軌道交通發展趨勢匹配，急需根據軌道交通的發展需求以及機車車輛的技術提升進行相應的升級。近年來，“機器人”、大數據”等創新科技在中國的工業、農業、民生等諸多方面取得了重大突破，在軌道交通機輛運維領域，如何結合機器人和大數據發揮作用，從而保證運維品質，降低成本，提升效率，也成為了軌道交通領域一項至關重要的研究課題。

Rail transit is playing an important role in the development of the society, and it is growing fast in China. With the opening of new railway lines, more and more works on Rolling Stock (EMU) & Locomotive maintenance are needed. At the same time, rail transit technology is developing and it requires higher maintenance and more precise standard. It makes the conflicts between cost control and maintenance safety becoming more and more prominent. The abilities, skill and technology of the maintenance teams are falling behind the modern rail transit development. As such, it needs upgrading in technology and facilities. In recent years, the application in robotics and big data has achieved a great breakthrough in areas of industry, agriculture and people’s livelihood. How to apply Robots + Big Data in modern rail transit maintenance industry to ensure the maintenance quality, reduce costs and improve efficiency becomes an important research subject in the area of rail transit.

Speaker

黃雪峰，現任神州高鐵研究院院長，從事軌道交通機輛運維的技術裝備研究近 15 年，中國《城市軌道交通車輛基地工程技術標準》第一主編人，國家省部級高鐵“企業技術中心”創建人。他將介紹如何將“機器人+大數據”創新運用於軌道交通機輛運營維護，實現保障安全和降低成本的目標，以及介紹“機器人+大數據”在軌道交通機輛運維向“軌道交通運維人工智慧”發展的設想。

Mr. HUANG Xuefeng, President of China High-speed Rail Research Institute, has 15-year experience in researching rolling stock (EMU) and locomotive maintenance facilities. He is the first author of Depot Facilities Engineering Standard of China Rail Transit, and is the founder of Provincial Company Technic Center of China High-speed Rail. He will introduce how to apply Robots + Big Data in rolling stock (EMU) & locomotive maintenance to achieve the goal of safer and cost effective maintenance, as well as the vision of Robots + Big Data application in Rail Transit System Operation and Maintenance with Artificial Intelligence (AI).

Registration

For registration, each participant has to confirm to CHKRI his/her name, employer and contact telephone number by filling the online form on or before **26th Feb 2018**. Certificate of Attendance will be issued to paid-up members ONLY.

https://goo.gl/forms/6kRooSwcyaPFQkC03

Anthony Tong
Secretary, CHKRI