

## 中心团队赴广州与广铁集团作技术交流

2018年9月13日，中心团队赴广州与广铁集团及相关设计施工单位技术负责人就广汕铁路基础设施全寿命周期综合管理项目的开展进行会谈，倪教授向与会专家、领导介绍了团队此前拟定的基于BIM平台技术与先进传感监测技术的广汕铁路基础设施全寿命周期综合管理技术方案。随后，与会专家就结构施工期及运营期的健康监测策略、先进传感技术、基于监测数据的损伤识别方法等议题展开了探讨。

广铁集团负责人认为，中心团队具有深厚的技术功底及长期的工程经验积累，技术方案内容很新、很全，集团对实施本技术方案非常感兴趣。希望以广汕高铁为试点工程，真正实现高速铁路基础设施的全寿命监测及管理。如果成功，未来将会将项目监测管理技术推广到铁路总公司广泛使用。

双方同意，此项目按研究课题进行。下一步双方将讨论方案的具体实施细则，包括工点的确定、监测范围的确定，同时商讨监测管理系统的预算等问题。

On 13 September 2018, CNERC-Rail had a meeting with China Railway Guangzhou Group (CR Guangzhou) and technical experts of Guangzhou-Shanwei HSR to discuss potential collaboration of Guangzhou-Shanwei HSR project. Professor Ni was invited to give a presentation titled “基于BIM平台技术与先进传感监测技术的广汕铁路基础设施全寿命周期综合管理”. After the presentation, some scientific issues were discussed, including structural health monitoring for both construction and service period, advanced sensing techniques, and data-based damage detection.

The proposal was highly appreciated by the experts of CR Guangzhou including CNERC-Rail's experience in SHM projects and frontier ideas for a comprehensive proposal. They were looking forward to implementing the proposed systems on Guangzhou-Shanwei HSR and realize fully life-cycle management for rail infrastructures. If success, CR Guangzhou can help to further extend the application of these systems to national HSR network.

After discussion, we agree to apply research fund to implement the proposed life-cycle management project. More details including the location to set up monitoring systems, the service scope of projects, and the budgets will be further explored.

