



# 首届全国大学生智能建造与管理创新竞赛 获奖证书

HONOR CERTIFICATE OF THE 1<sup>ST</sup> NATIONAL INNOVATION CONTEST FOR INTELLIGENT CONSTRUCTION AND MANAGEMENT

兹证明作品《基于城市大数据的共享单车需求时空分布预测及调度优化研究》在教育部工程管理和工程造价专业教学指导分委员会主办的首届全国大学生智能建造与管理创新竞赛中获得一等奖。

学 校:华中农业大学

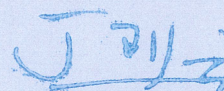
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指导老师:王歌、左成超

This is to certify that Li Jingwang , Cao Zijin, Wang Xu, Pan Simin , Mao Binhong who were advised by Wang Ge , Zuo Chengchao from Huazhong Agricultural University with the work "Spatial-temporal distribution of demands and rebalancing strategy for dockless sharing bicycles: A big data approach" has been awarded the 1<sup>st</sup> Prize of The 1<sup>st</sup> National Innovation Contest for Intelligent Construction and Management which is sponsored by National Special Steering Committee for Construction Management and Cost Evaluation Education of China. This certificate is hereby awarded to her/his as an encouragement.

教育部工程管理和工程造价专业教学指导分委员会  
(华中科技大学代章)

National Special Steering Committee for Construction Management and Cost Evaluation Education of China  
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二零一九年九月二十七日