



Cultural Expression of Long-span Bridge Structure - Landscape Design of Zhangjinggao Yangtze River Bridge

Hailong Hao, Haotian Guo, Leyong Wei, Zhifa Yan

CCCC HIGHWAY CONSULTANTS CO.,LTD., Xicheng City, Beijing, China

Fei Cao

Architects & Engineers., LTD of Southeast University, Nanjing, China

Hongtao Li, Jing Ruan, Haifeng Lin, Junping Dai, Feng Zhao

Jiangsu Provincial Transportation Engineering Construction Bureau, Jiangsu, China

Contact:fgcfqh@163.com

Abstract

Zhangjinggao Yangtze River Bridge, located in Jiangsu Province, China, will be the longest suspension bridge in the world. Taking the landscape design process of Zhangjinggao Yangtze River Bridge as an example, this paper discusses the landscape design principles and methods of the long-span bridge, along with how to combine the regional cultural elements with the bridge structure, therefore create an identifiable and iconic bridge architectural landscape. This paper puts forward an effective idea and method for the engineering aesthetic design and cultural connotation expression of long-span Bridges.

Keywords: long-span bridge; bridge landscape; bridge culture; Zhangjinggao Yangtze River Bridge.

1 Introduction

Bridge is one of the most important symbols of national and regional economic development. With the expansion of human economic activities and the continuous strengthening of ties, bridges become more and more closely related to people's life as well.

In China, the design of long-span bridges does not pay enough attention to the expression of culture and art.

The landscape design of Zhangjinggao Yangtze River Bridge discusses the significance and

practical methods of cultural expression for long-span bridges.

2 General Instructions

Because of the special status of long-span bridges, they often become one of the most prominent buildings in the environment. The aesthetic expression and cultural expression of long-span bridge engineering have also become an important component in the structural design of long-span bridges. Proper way to better combine bridge culture and bridge structure has also become a new problem faced by bridge engineers.