



## EDITORIAL

# Special Issue on “Analysis on Structural Performance”

**Huaping Wang\***

Lanzhou University, Lanzhou, Gansu, 730000, China

---

### ARTICLE INFO

---

#### *Article history*

Received: 20 November 2020

Accepted: 20 November 2020

Published Online: 30 December 2020

---

Structural performance is the most important index to declare the stability, safety and durability of structures in practical engineering. The performance degradation of structures becomes more and more common with the increase of service life. To ensure the safe operation of structures, the hot research has gradually changed from large-scale construction to the detection, repair, reinforcement, renovation and maintenance. Composite structures, such as CFRP-reinforced beam structures, steel-concrete composite beams and frames become prevail. To understand the service performance of these structures under mechanical load, it is necessary to analyze the interfacial bonding performance, stress and deflection distributions. The structural behavior can be described by mathematical model, and theoretical analysis and finite element method can be adopted to provide the stress and deformation state. Besides, smart sensors can also be installed to measure these physical parameters for configuring the in-service structural performance. “Structural performance” is the key to understand the health condition of structures. This has been one of the motivations for the editorial board of the Journal of Architectural Environment & Structural Engineering Research for publishing scientific work under the theme “Analysis on structural performance”. With these concerns, and the improvement for the analysis and assessment of structural performance, we intend to project a **special issue** with the theme “**Analysis on structural performance**” to be published on or before 30th Dec 2020 in the journal of **Architectural Environment & Structural Engineering Research** (open access) published by Bilingual Publishing Co.

Huaping Wang, Dr., Associate Prof.

Lead guest editor

Special issue on “**Analysis on structural performance**”

Journal of Architectural Environment & Structural Engineering Research

Editorial board member

Bilingual Publishing Co.

Email: [hpwang@lzu.edu.cn](mailto:hpwang@lzu.edu.cn)

---

*\*Corresponding Author:*

*Huaping Wang,*

*Lanzhou University, No. 222 South Tianshui Road, Lanzhou, Gansu, 730000, China;*

*Email: [hpwang@lzu.edu.cn](mailto:hpwang@lzu.edu.cn)*