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# Advances in Service Life Evaluation of Metallic and Composite Materials

Guest Editors:

### Dr. Zhi-Yu Wang

Department of Civil Engineering, School of Architecture and Environment, Sichuan University, Chengdu 610065, China

### Dr. Takeshi Hanji

Department of Civil and Environmental Engineering, Nagoya University, C1-3(651) Furo-cho, Chikusa-ku, Nagoya-City, Aichi 464-8603, Japan

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# **Message from the Guest Editors**

Dear Colleagues,

The purpose of this Special Issue is to gather updated information about the advances in service life evaluation. and retrofitting of structural joints as key parts of making structures with the reliability and durability desired. The loading scenarios include high-cycle fatigue, low-cycle fatigue, and post-fatigue. Contributions are welcomed regarding our primary interest in the following topics: recent developments about the experimental techniques applied to the estimation of fatigue crack growth rate and deterioration progress; current state of knowledge relating the geometric effects (notches, fillets, etc.); to environmental and physical factors in the progressive lifetime deterioration of structural joints based on theoretical and numerical approaches; and finally, methodology in the suppression of fatigue crack growth and optimization of fatigue resistant structures. However, studies related to any other engineering materials and structures employed in fatigue approaches, fracture mechanics, and experimental techniques are also highly suitable regarding the aims and scope of this Special Issue.









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# **Editor-in-Chief**

#### Prof. Dr. Maryam Tabrizian

 Department of Biomedical Engineering, Faculty of Medicine and Health Sciences, McGill University, Montreal, QC H3A 2B6, Canada
Faculty of Dentistry and Oral Health Sciences, McGill University, 3640 Rue University, Montreal, QC H3A 0C7, Canada

### Message from the Editor-in-Chief

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*Materials* Editorial Office MDPI, Grosspeteranlage 5 4052 Basel, Switzerland Tel: +41 61 683 77 34 www.mdpi.com mdpi.com/journal/materials materials@mdpi.com X@Materials\_Mdpi