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# **Detection Methods and Numerical Analysis of Faults in Structural** and Geotechnical Engineering

Guest Editors: Message from the Guest Editors Prof. Dr. Timon Rabczuk Dear Colleagues, From crystal dislocation to rock joints, faults can be found Prof. Dr. Yiming Zhang on different scales in different structures. **Dr. Chun Feng** engineering point of view, faults grow and evolve, exerting great influences on the stability and durability of **Dr. Zizheng Sun** structures. From the mathematical point of view, faults commonly refer to discontinuities, bringing great deviations from analytical solutions based on partial Deadline for manuscript differential equations. With the development of smart submissions. sensors, non-destructive testing, machine learning 31 July 2024 algorithms, high-performance computation technology and powerful computing methods, novel detection

testing/monitoring.

Dr. Chun Feng Dr. Zizheng Sun Guest Editors

Prof. Dr. Timon Rabczuk Prof. Dr. Yiming Zhang

methods have emerged that can find and trace the geometric and historic information of faults to evaluate their influence on structures and predict their evolution.

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# Message from the Editor-in-Chief

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