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Gongtian Shen
Junjiao Zhang
Zhanwen Wu *Editors*

Advances in Acoustic Emission Technology

Proceedings of the World Conference on
Acoustic Emission-2017

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Editors

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Preface

This volume includes the papers selected from the World Conference on Acoustic Emission, 2017 (WCAE-2017), which was held on October 10 to October 13 in Xi'an, China. WCAE was the formal conference of the International Society on Acoustic Emission (ISAE). WCAE-2017 was jointly organized by Chinese Society for Non-destructive Testing (ChSNDT) and China Special Equipment Inspection and Research Institute (CSEI). This was the fourth such event of ISAE following the inaugural one in 2011 in Beijing; second in 2013 in Shanghai, China; and third in 2015 in Hawaii, USA. WCAE is aimed at providing a platform to scientists and practitioners in both academia and industry in the field of acoustic emission and exchanging research and application information, with particular emphasis on scientific and technical development and cooperation worldwide.

The WCAE-2017 consisted of four invited keynote lectures and nine oral and one poster sessions. It covered all major areas of acoustic emission applications, including instrumentation, signal processing and analysis, material characteristics, structure, condition monitoring and diagnosis, and miscellaneous.

WCAE-2017 received 56 submissions, which were documented in the extended abstracts of WCAE-2017. Forty-seven full papers were submitted for the consideration of achieved formal proceeding. After peer reviews, 40 were included in this volume.

We are grateful to all the members of the committees who contributed their efforts to review the manuscripts. We would also like to express our sincere gratitude to Chinese Society for Non-destructive Testing (ChSNDT) and China Special Equipment Inspection and Research Institute (CSEI) for their enormous supports. Last but not the least, we thank the contributions of all the delegates who participated in WCAE-2017.

Beijing, China

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