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**Ailing Tian
Anand Asundi
Weiguo Liu
Chunmin Zhang**
Editors

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Introduction

Following the successes of the Annual China Western Photonics Conference in 2010, 2011, 2012 and 2013, the Shaanxi Optical Society, Shaanxi Provincial Physical Society, Optics and Photonics Society of Singapore, Xi'an Technological University, Xi'an Jiaotong University, Xi'an Institute of Optics and Precision Mechanics of CAS, Xi'an Institute of Applied Optics, and Nanyang Technological University hosted the International Conference on Photonics and Optical Engineering 2014 (icPOE 2014) 13–15 October 2014, in Xi'an, China.

The field of photonics and optical engineering is developing rapidly worldwide. Indeed, there have been significant advances in this field in China as well over the past years. There is an increasing number of photonics and optical engineering companies setting up or ramping up their manufacturing facilities here; and at the same time, some home-grown companies are show-casing innovations and technologies. In order to cater to these developments, many universities and scientific research institutions in Xi'an, Shanghai, Tianjin, and other famous cities have established the 'Photonics Research Centre'. These institutions have organized many national academic conferences for deeper academic exchanges and scientific interactions, as well as to strengthen the cultivation of the excellent talent, and finally to reach out to the younger generation and highlight their career and research options in photonics and optical engineering. The International Conference on Photonics and Optical Engineering (icPOE) is a conference of international academic exchanges about optical engineering and photonics technology. Its goal is to build a bridge between the study of photonics and optical engineering and the promotion of the application, manipulation, and measurement of new advanced technology in the context of continuous innovation and development. Leading scientists and researchers from all over the world submitted 138 papers, which are summarized under six topics:

1. Space optics
2. Spectral imaging technique
3. Photoelectric material and photoelectric devices
4. Optical design and manufacturing technology
5. Optical measurement and inspection
6. Micro-nano manufacturing and testing

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Finally, our special thanks and appreciation goes to all friends and colleagues for sharing with us the positive result of photonics and optical engineering.

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