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**Peter R. Herman
Michel Meunier
Roberto Osellame**
Editors

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Introduction

Ultrafast lasers are now ubiquitous in scientific studies through biomedical and industrial applications. The papers in this year's program and proceedings reflect the rapid progress that has been made in development of high-powered femtosecond laser systems, providing users with a wider berth of wavelength and exposure conditions on which to further develop the field. Papers on laser-matter interaction physics point to new avenues for nano-structuring of surfaces to controlling the internal modification of transparent materials and tissue. Improved means for laser beam controls and process monitoring systems are further addressing the challenges to scale up processing speeds and support the expansion of commercial applications across a wide spectrum of industry to medical directions. The papers in these proceedings provide the state-of-art view of ultrafast laser technology, their novel interactions with materials, and the application directions that continue to expand and grow, representing an exciting future direction for the field.

Peter R. Herman
Michel Meunier
Roberto Osellame