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# PROCEEDINGS OF SPIE

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## Introduction

This volume contains the texts of many papers that were presented at the SPIE Conference on Nonlinear Optics and Applications on April 19–21, 2011 in Prague. The topics covered many of the more advanced topics in the nonlinear optics research. This year these topics were: nanophotonics, nonlinear plasmonics, ultrafast phenomena, solitons, and nonlinear effects in general. Some of the invited papers in these topics are presented here, and allow to see the advances that have been made in the argument. Nanophotonics, plasmonics, ultrafast phenomena and solitons are all hot topics in which new results are frequent, and some examples of them are in the papers presented here.

**Mario Bertolotti**

