

PROCEEDINGS OF SPIE

Nonlinear Optics and Applications V

Mario Bertolotti
Editor

19–21 April 2011
Prague, Czech Republic

Sponsored and Published by
SPIE

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Volume 8071

Proceedings of SPIE, 0277-786X, v. 8071

SPIE is an international society advancing an interdisciplinary approach to the science and application of light.

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Author(s), "Title of Paper," in *Nonlinear Optics and Applications V*, edited by Mario Bertolotti, Proceedings of SPIE Vol. 8071 (SPIE, Bellingham, WA, 2011) Article CID Number.

ISSN 0277-786X
ISBN 9780819486615

Published by

SPIE

P.O. Box 10, Bellingham, Washington 98227-0010 USA
Telephone +1 360 676 3290 (Pacific Time) · Fax +1 360 647 1445
SPIE.org

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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

