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Imaging for Detection and Identification

Edited by
Jim Byrnes

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Byrnes, Jim (Ed.)

Imaging for Detection and Identification

- Multi-disciplinary treatment of sensing
- Describes essential technology for countering new threats
- Written by experts from academia, government and industry
- Accessible to a broad audience of scientists, engineers and mathematicians

The chapters in this volume were presented at the July–August 2006 NATO Advanced Study Institute on Imaging for Detection and Identification. The conference was held at the beautiful Il Ciocco resort near Lucca, in the glorious Tuscany region of northern Italy. For the eighth time we gathered at this idyllic spot to explore and extend the reciprocity between mathematics and engineering. The dynamic interaction between world-renowned scientists from the usually disparate communities of pure mathematicians and applied scientists which occurred at our seven previous ASI's continued at this meeting. The fusion of basic ideas in mathematics, radar, sonar, biology, and chemistry with ongoing improvements in hardware and computation offers the promise of much more sophisticated and accurate detection and identification capabilities than currently exist. Coupled with the dramatic rise in the need for surveillance in innumerable aspects of our daily lives, brought about by hostile acts deemed unimaginable only a few short years ago, the time is ripe for image processing scientists in these usually diverse fields to join together in a concerted effort to combat the new brands of terrorism. This ASI was one important initial step.

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