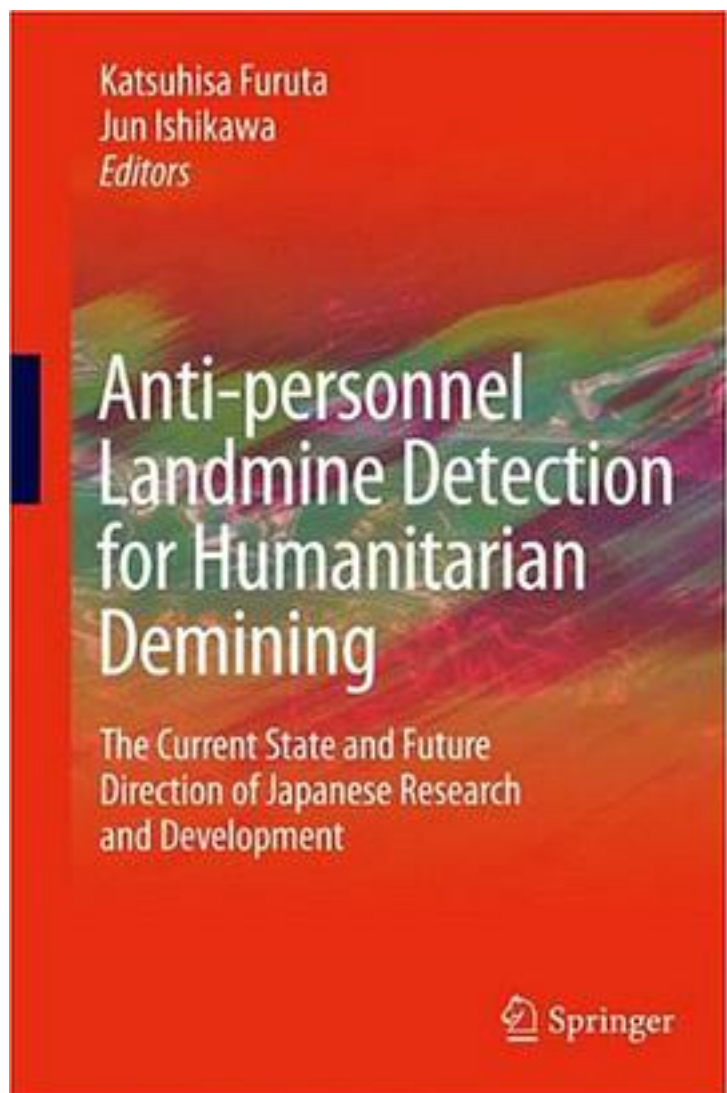# Anti-Personnel Landmine Detection for Humanitarian Demining

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著者:Ishikawa, Jun 编

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Anti-personnel Landmine Detection for Humanitarian Demining reports on state-of-the-art technologies developed during a Japanese National Research Project (2002 2007). The conventional method of landmine detection is using metal detectors to sense the metal in mines, but often other metal fragments in minefields camouflage landmines and hinder progress using this form of demining. The challenge is to develop detection systems that can discriminate between AP landmines and random metal fragments.The JST adopted research proposals and the results are reported here. This book concentrates on aspects of three approaches to AP mine detection: enhancing and confirming the results of metal-detection scans using GPR; using robot vehicles and manipulators to operate within minefields remotely; and methods of sensing the explosives within mines.Results are presented in the fields of GPR, nuclear quadrupole resonance, neutron thermal analysis and biosensors. The integration of these methods for workable robot operation is demonstrated. The project was carried out in conjunction with mine action centers in Croatia, Cambodia and Afghanistan. Evaluation data from field trials are also given.

作者介绍:

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