



Advanced Technologies for Intelligent Systems of National Border Security (Studies in Computational Intelligence)

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One of the world's leading problems in the field of national security is protection of borders and borderlands. This book addresses multiple issues on advanced innovative methods of multi-level control of both ground (UGVs) and aerial drones (UAVs). Those objects combined with innovative algorithms become autonomous objects capable of patrolling chosen borderland areas by themselves and automatically inform the operator of the system about potential place of detection of a specific incident. This is achieved by using sophisticated

methods of generation of non-collision trajectory for those types of objects and enabling automatic integration of both ground and aerial unmanned vehicles.

The topics included in this book also cover presentation of complete information and communication technology (ICT) systems capable of control, observation and detection of various types of incidents and threats. This book is a valuable source of information for constructors and developers of such solutions for uniformed services. Scientists and researchers involved in computer vision, image processing, data fusion, control algorithms or IC can find many valuable suggestions and solutions. Multiple challenges for such systems are also presented.

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Review

From the reviews:

“This collection of 21 papers comes from research funded by the Polish National Center for Research and Development. ... Command and control designers with an intermediate to advanced mathematical background will find useful information in these papers. ... each of the individual papers does include a list of research references.” (Brad Reid, Computing Reviews, June, 2013)

From the Back Cover

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