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The purpose of this document is to briefly frame the challenges of detecting low, slow, and small (LSS) unmanned aerial systems (UAS). The conclusion drawn from internal discussions and external reports is the following; detection of LSS UAS is a challenging problem that can- not be achieved with a single detection modality for all potential targets. Classification of LSS UAS, especially classification in the presence of background clutter (e.g., urban environment) or other non-threating targets (e.g., birds), is under-explored. Though information of avail- able technologies is sparse, many of the existing options for UAS detection appear to be in their infancy (when compared to more established ground-based air defense systems for larger and/or faster threats). Companies currently providing or developing technologies to combat the UAS safety and security problem are certainly worth investigating, however, no company has provided the statistical evidence necessary to support robust detection, identification, and/or neutralization of LSS UAS targets. The results of a market survey are included that highlights potential commercial entities that could contribute some technology that assists in the detection, classification, and neutral- ization of a LSS UAS. This survey found no clear and obvious commercial solution, though recommendations are given for further investigation of several potential systems.

Covering the wide range of technologies implemented by contemporary malware programs such as rootkits, keyloggers, spyware, adware, back doors, and network and mail worms, this practical guide for system administrators and experienced users covers approaches to computer investigation and how to locate and destroy malicious programs without using antiviral software. Examples such as protocol fragments, operating principles of contemporary malicious programs, and an overview of specialized software for finding and neutralizing malware are presented, and the accompanying CD-ROM includes programs for system analysis and an antiviral utility intended for investigating the system and detecting rootkits and keyloggers.

To advantageously plan and design for the explosive near-future increase in the number of unmanned aerial vehicles (UAVs) and their demanding applications, integration of UAVs into cellular communication systems has seen increasing interest. This book provides a timely and comprehensive overview of the recent research efforts and results of unmanned aerial vehicles (UAVs)-integrated cellular network communications. The aim of the book is to provide a comprehensive coverage of the potential applications, networking architectures, latest research findings and key enabling technologies, experimental measurement results, as well as up-to-date industry standardizations for UAV communications in cellular systems, including the existing LTE as well as the future 5G-and-beyond systems.

The development of inexpensive small unmanned aircraft system (sUAS) technologies and the growing desire of hobbyists to have more and more capability have created a sustained sUAS industry, however these capabilities are directly enabling the ability of adversaries to threaten U.S. interests. In response to these threats, the U.S. Army and other Department of Defense (DoD) organizations have invested significantly in counter-sUAS technologies, often focusing on detecting radio frequency transmissions by sUASs and/or their operators, and jamming the radio frequency command and control links and Global Positioning System signals of individual sUASs. However, today's consumer and customized sUASs can increasingly operate without radio frequency command and control links by using automated target recognition and tracking, obstacle avoidance, and other software-enabled capabilities. The U.S. Army tasked the National Academies of Sciences, Engineering, and Medicine to conduct a study to address the above concerns. In particular, the committee was asked to assess the sUAS threat, particularly when massed and collaborating; assess current capabilities of battalion-and- below infantry units to counter sUASs; identify counter-sUAS technologies appropriate for near- term, mid-term, and far-term science and technology investment; consider human factors and logistics; and determine if the Department of Homeland Security could benefit from DoD efforts. This abbreviated report provides background information on the full report and the committee that prepared it.