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There are many human factors issues ranging from remote control and soda straw displays to spatial disorientation and automation. Further, there are significant mishaps with a large portion attributed to human factors issues. This panel will describe the state-of-the art in human factors of ROVs through some examples of research in the area.

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Highlights the pressing human factor issues that are associated with remotely operated vehicles. This book showcases some of the human-oriented research and design that speaks to these issues. It discusses the human components of the 'unmanned' system.

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(Remotely Operated Vehicles) are taking a front seat. They can do work that is beyond human capabilities or that puts humans in harm's way. However, the fact that there are no humans in the vehicle is misinterpreted by some as no humans in the system. On the contrary, ROVs are complex systems that require much human involvement.

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The success of remote operation will, however, be affected by many inter-dependent factors . specific to the remote nature of the tasks (Habibovic et al., 2020). For example, challenges related to situational awareness, hand-over, telepresence, change blindness and workload might, if not properly accounted for in

Human Factors Challenges of Remote Support and Control A

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9. Human Factors in U.S. Military Unmanned Aerial Vehicle Accidents; 10. Spatial Disorientation in Uninhabited Aerial Vehicles; The ROV Interface; 11. Multi-Sensory Interfaces for Remotely Operated Vehicles; 12. Evaluation of a Touch Screen-Based Operator Control Interface for Training and Remote Operation of a Simulated Micro-Uninhabited Aerial Vehicle; 13.

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The commonly used terms, "unmanned" or "uninhabited," are misleading in the context of remotely operated vehicles. In the case of Unmanned Aerial Vehicles (UAVs), there are many

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people involved on the ground ranging from those operating the vehicle from a ground control station, to the people coordinating multiple UAVs in an air operations or air traffic control center. The complexity of remote vehicle operations is also often underestimated and seen as a simple navigation task, neglecting the more complex functions associated with remote camera operations, data gathering, and even weapons activity. In addition, trends in the military and civilian sectors involving reduced staffing, increased number of vehicles to control, and integration with other operations are associated with critical human factors issues. For example, the integration of UAVs with manned aircraft in the national airspace poses numerous human factors challenges. In summary, though these vehicles may be unmanned they are not unoperated, unsupervised, or uncontrolled. The role of the human in these systems is critical and raises a number of human factors research and design issues ranging from multiple vehicle control and adaptive automation to spatial disorientation and synthetic vision. The purpose of this book is to highlight the pressing human factors issues associated with remotely operated vehicles and to showcase some of the state of the art human-oriented research and design that speaks to these issues. In this book the human components of the "unmanned" system take center stage compared to the vehicle technology that often captures immediate attention.

Highlights the human components of Remotely Piloted Aircraft Systems, their interactions with the technology and each other, and the implications of human capabilities and limitations for the larger system Considers human factors issues associated with RPAS, but within the context of a very large system of people, other vehicles, policy, safety

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concerns, and varying applications. Chapters have been contributed by world class experts in HSI and those with operational RPAS experience. Considers unintended consequences associated with taking a more myopic view of this system. Examines implications for practice, policy, and research. Considers both civil and military aspects of RPAS.

Soldier-robot teams will be an important component of future battle spaces, creating a complex but potentially more survivable and effective combat force. The complexity of the battlefield of the future presents its own problems. The variety of robotic systems and the almost infinite number of possible military missions create a dilemma for researchers who wish to predict human-robot interactions (HRI) performance in future environments. *Human-Robot Interactions in Future Military Operations* provides an opportunity for scientists investigating military issues related to HRI to present their results cohesively within a single volume. The issues range from operators interacting with small ground robots and aerial vehicles to supervising large, near-autonomous vehicles capable of intelligent battlefield behaviors. The ability of the human to 'team' with intelligent unmanned systems in such environments is the focus of the volume. As such, chapters are written by recognized leaders within their disciplines and they discuss their research in the context of a broad-based approach. Therefore the book allows researchers from differing disciplines to be brought up to date on both theoretical and methodological issues surrounding human-robot interaction in military environments. The overall objective of this volume is to illuminate the challenges and potential solutions for military HRI through discussion of the many approaches that have been utilized in order to converge on a better understanding of this relatively complex concept. It should be noted that many of these issues will generalize to

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civilian applications as robotic technology matures. An important outcome is the focus on developing general human-robot teaming principles and guidelines to help both the human factors design and training community develop a better understanding of this nascent but revolutionary technology. Much of the research within the book is based on the Human Research and Engineering Directorate (HRED), U.S. Army Research Laboratory (ARL) 5-year Army Technology Objective (ATO) research program. The program addressed HRI and teaming for both aerial and ground robotic assets in conjunction with the U.S. Army Tank and Automotive Research and Development Center (TARDEC) and the Aviation and Missile Development Center (AMRDEC). The purpose of the program was to understand HRI issues in order to develop and evaluate technologies to improve HRI battlefield performance for Future Combat Systems (FCS). The work within this volume goes beyond the research results to encapsulate the ATO's findings and discuss them in a broader context in order to understand both their military and civilian implications. For this reason, scientists conducting related research have contributed additional chapters to widen the scope of the original research boundaries.

This book focuses on the importance of human factors in the development of reliable and safe unmanned systems. It discusses current challenges such as how to improve perceptual and cognitive abilities of robots, develop suitable synthetic vision systems, cope with degraded reliability of unmanned systems, predict robotic behavior in case of a loss of communication, the vision for future soldier-robot teams, human-agent teaming, real-world implications for human-robot interaction, and approaches to standardize both display and control of technologies across unmanned systems. Based on the AHFE 2016 International Conference on

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Human Factors in Robots and Unmanned Systems, held on July 27-31, 2016, in Walt Disney World®, Florida, USA, this book is expected to foster new discussion and stimulate new ideas towards the development of more reliable, safer, and functional devices for carrying out automated and concurrent tasks.

This book focuses on the importance of human factors in the development of safe and reliable unmanned systems. It discusses current challenges such as how to improve the perceptual and cognitive abilities of robots, develop suitable synthetic vision systems, cope with degraded reliability in unmanned systems, predict robotic behavior in case of a loss of communication, the vision for future soldier-robot teams, human-agent teaming, real-world implications for human-robot interaction, and approaches to standardize both the display and control of technologies across unmanned systems. Based on the AHFE 2018 International Conference on Human Factors in Robots and Unmanned Systems, held on July 21-25, 2018, in Orlando, Florida, USA, this book fosters new discussions and stimulates new advances in the development of more reliable, safer, and highly functional devices for carrying out automated and concurrent tasks.

This book focuses on the importance of human factors in the development of safe and reliable robotic and unmanned systems. It discusses current challenges, such as how to improve the perceptual and cognitive abilities of robots, develop suitable synthetic vision systems, cope with degraded reliability in unmanned systems, and predict robotic behavior in relation to human activities. Further, it highlights potential future human-robot and human-agent collaboration, suggesting real-world implications of and approaches for improving human-machine interaction across unmanned

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systems. Based on the AHFE 2020 Virtual Conference on Human Factors in Robots, Drones and Unmanned Systems, held on July 16–20, 2020, this book is intended to foster discussion and collaborations among researchers and practitioners, thus stimulating new solutions for the development of reliable and safe, human-centered, highly functional devices to perform automated and concurrent tasks.

This book focuses on the importance of human factors in the development of safe and reliable robotic and unmanned systems. It discusses solutions for improving the perceptual and cognitive abilities of robots, developing suitable synthetic vision systems, coping with degraded reliability in unmanned systems, and predicting robotic behavior in relation to human activities. It covers the design of improved, easy to use, human–system interfaces, together with strategies for increasing human–system performance, and reducing cognitive workload at the user interface. It also discusses real-world applications and case studies of human-robot and human-agent collaboration in different business and educational endeavors. The second part of the book reports on research and developments in the field of human factors in cybersecurity. Contributions cover the technological, social, economic and behavioral aspects of the cyberspace, providing a comprehensive perspective to manage cybersecurity risks. Based on the two AHFE 2021 Conferences such as the AHFE 2021 Conference on Human Factors in Robots, Drones and Unmanned Systems, and the AHFE 2021 Conference on Human Factors in Cybersecurity, held virtually on 25–29 July, 2021, from USA, this book offers extensive information and highlights the importance of multidisciplinary approaches merging engineering, computer science, business and psychological knowledge. It is

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expected to foster discussion and collaborations between researchers and practitioners with different background, thus stimulating new solutions for the development of reliable and safe, human-centered, highly functional devices to perform automated and concurrent tasks, and to achieve an inclusive, holistic approach for enhancing cybersecurity.

This book focuses on the importance of human factors in the development of safe and reliable unmanned systems. It discusses current challenges such as how to improve the perceptual and cognitive abilities of robots, develop suitable synthetic vision systems, cope with degraded reliability in unmanned systems, predict robotic behavior in case of a loss of communication, the vision for future soldier-robot teams, human-agent teaming, real-world implications for human-robot interaction, and approaches to standardize both the display and control of technologies across unmanned systems. Based on the AHFE 2017 International Conference on Human Factors in Robots and Unmanned Systems, held on July 17-21 in Los Angeles, California, USA, this book is expected to foster new discussion and stimulate new advances in the development of more reliable, safer, and highly functional devices for carrying out automated and concurrent tasks.

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the display and control of technologies across unmanned systems. Based on the AHFE 2019 International Conference on Human Factors in Robots and Unmanned Systems, held on July 24–28, 2019, Washington D.C., USA, this book fosters new discussions and stimulates new advances in the development of more reliable, safer, and highly functional devices for carrying out automated and concurrent tasks.

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