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	Descrizione fisica	1 online resource (XII, 358 p. 142 illus.)
	Collana	Advances in Intelligent Systems and Computing, , 2194-5357 ; ; 595
	Disciplina	629.892019
	Soggetti	Computational intelligence Robotics Automation Psychology, Experimental User interfaces (Computer systems) Computational Intelligence Robotics and Automation Experimental Psychology User Interfaces and Human Computer Interaction
	Lingua di pubblicazione	Inglese
	Formato	Materiale a stampa
	Livello bibliografico	Monografia
	Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.
	Nota di contenuto	A model for temperament and emotions on robots -- Spatial understanding as a common basis for human-robot collaboration -- Issues and advances in anomaly detection evaluation for joint human-automated systems -- UAS detect and avoid – alert times and pilot performance in remaining well clear -- How close is close enough? Temporal matching between visual and tactile signaling -- Human robot team development: An operational and technical perspective -- Toward an “equal-footing” human-robot interaction for fully autonomous vehicles.
	Sommario/riassunto	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 2017 International Conference on Human Factors in Robots and Unmanned Systems, held on July 17-21, Los Angeles, California, 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.