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Titolo	Advances in Simulation and Digital Human Modeling : Proceedings of the AHFE 2021 Virtual Conferences on Human Factors and Simulation, and Digital Human Modeling and Applied Optimization, July 25-29, 2021, USA / / edited by Julia L. Wright, Daniel Barber, Sofia Scataglini, Sudhakar L. Rajulu
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Collana	Lecture Notes in Networks and Systems, , 2367-3389 ; ; 264
Disciplina	621.367
Soggetti	Computational intelligence Biomedical engineering Biomechanics Virtual reality Augmented reality Computational Intelligence Biomechanical Analysis and Modeling Virtual and Augmented Reality
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Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Human-autonomy teaming with learning capable agents: Performance and workload outcome -- Examining vigilance decrement in a simulated unmanned aircraft system (UAS) monitoring task -- Quantifying survivability via measurement of bodily exposure during simulated combat engagements -- Supervisory control of automation during event-paced scenarios -- Exploiting interdependence in autonomous human-machine systems to avoid disaggregation and vulnerability -- Visualizing human-autonomy team dynamics through the development of a global after-action review technology -- Development of a neural network algorithm to detect Soldier load from environmental speech.
Sommario/riassunto	This book provides readers with a timely snapshot of modeling and

simulation tools, including virtual and mixed-reality environment, for human factors research. It covers applications in healthcare and physical ergonomics, military and transportation systems, industrial monitoring, as well as economics and social sciences. Based on the AHFE 2021 International Conference on Human Factors and Simulation and the AHFE 2021 International Conference on Digital Human Modeling and Applied Optimization, held virtually on 25–29 July, 2021, from USA, the book offers a unique resource for modelling and simulation researchers seeking insights into human factors research and to human factors experts seeking reliable computational tools.