1. Record Nr. UNINA9910629282103321

Titolo	Human-Automation Interaction : Transportation / / edited by Vincent G. Duffy, Steven J. Landry, John D. Lee, Neville Stanton
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2023
ISBN	3-031-10784-5
Edizione	[1st ed. 2023.]
Descrizione fisica	1 online resource (512 pages)
Collana	Automation, Collaboration, & E-Services, , 2193-4738 ; ; 11
Disciplina	620.82 629.8924019
Soggetti	Computational intelligence Automatic control Robotics Automation Transportation engineering Traffic engineering Artificial intelligence Computational Intelligence Control, Robotics, Automation Transportation Technology and Traffic Engineering Artificial Intelligence
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	The Shorter Takeover Request Time the Better? Car-Driver Handover Control in Highly Automated Vehicles -- Automating the Driving Task – How to Get More Human-Centered -- Task Simulation Automation via Digital Human Models: A Case Study on Cockpit Fire and Smoke Emergencies -- Facility Layout Design Optimization of Wing Assembly of Unmanned Aerial Vehicle Based on Particle Swarm Optimization -- Human-Computer Interaction in Mobility System -- Design for Inclusion and Aged Population in Transportation and Human-Automation Interaction. .
Sommario/riassunto	This book provides practical guidance and awareness for a growing

body of knowledge developing across a variety of disciplines. This initiative is a celebration of the Gavriel Salvendy International Symposium (GSIS) and provides a survey of topics and emerging areas of interest in human–automation interaction. This set of articles for the GSIS emphasizes a main thematic area: transportation. Main areas of coverage include Section A: Interaction with Vehicle Automation; Section B: HCI in Automated Vehicles; Section C: Trust in Vehicle Automation; Section D: Physical Modeling of Vehicle Cabs; Section E: Task Simulation Automation via Digital Human Models; Section F: Maintenance and Manufacturing; Section G: Smart Cities and Connected Vehicles. Contributions from especially early career researchers were featured as part of this (virtual) symposium and celebration. Gavriel Salvendy initiated the conferences that run annually as Human–Computer Interaction within LNCS of Springer and Applied Human Factors and Ergonomics International (AHFE). The book is inclusive of human–computer interaction and human factors and ergonomics principles, yet it is intended to serve a much wider audience that has interest in automation and human modeling. The emerging need for human–automation interaction expertise has developed from an ever-growing availability and presence of automation in our everyday lives. This initiative is intended to provide practical guidance and awareness for a growing body of knowledge developing across a variety of disciplines and many countries.