



Advances in Applied Human Modeling and Simulation

By Vincent G. Duffy

Taylor & Francis Inc. Hardback. Book Condition: new. BRAND NEW, Advances in Applied Human Modeling and Simulation, Vincent G. Duffy, An examination of the various types of human-modeled technology, Advances in Applied Human Modeling and Simulation not only covers the type of models available, but how they can be applied to solve specific problems. These models provide a representation of some human aspects that can be inserted into simulations or virtual environments and facilitate prediction of safety, satisfaction, usability, performance, and sustainability. Topics include: * Anthropometry and human functional data * Biomechanics, occupational safety, comfort and discomfort * Biometric authentications * Driving safety and human performance * Enhancing human capabilities through aids or training * Fuzzy systems and neural computing * Human behavior and risk assessment modeling * Integrating software with humans and systems * International cooperation in education and engineering research * Intelligent agents in decision training * Intelligent data and text mining * Machine learning and human factors * Modeling physical aspects of work * Monitoring systems and human decision * Psychophysiological indicators of emotion * Resilience engineering and human reliability * Scenario-based performance in distributed enterprises * Special populations * Sustainability, earth sciences and engineering * System-of-systems...



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