



Advances in Applied Human Modeling and Simulation (Advances in Human Factors and Ergonomics Series)

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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 architecting and engineering
- Verification and validation
- Virtual interactive design and assessment

The math and science provides a foundation for visualizations that can facilitate decision making by technical experts, management or those responsible for public policy. In considering a systems perspective and decisions that affect performance, these models provide opportunities for an expanded role of engineers and HF/E specialists to meet technical challenges worldwide. They can also be used to improve time-to-market, increase safety and ultimately the effectiveness of an organization. The book focuses on applications of these newly developed models and predictive capabilities useful to human factors and ergonomics engineers, cognitive engineers, human computer interaction engineers, human performance modeling engineers, and students in related fields.

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