

International Journal of

Human Factors Modelling and Simulation

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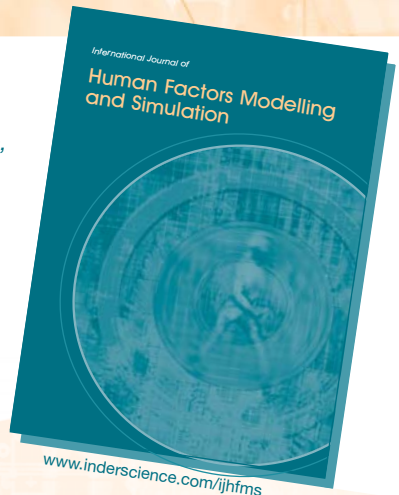
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Scope of the Journal

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Human factors focuses on human interaction with other elements of a system, including people serving as operators, maintainers or users in the organisation. Human factors advocates systematic use of such knowledge to achieve compatibility in the design of interactive systems of people, machines and environments to ensure their effectiveness, safety, human health and ease of performance. IJHFMS considers development/application of analytical methods, digital human representations, simulations and computational algorithms to advance knowledge/ understanding of man-machine systems, highlighting research on human-in-the-loop integration.



Topics covered include:

- Human factors theory relating to computational models of humans
- Computerised anthropometry: data modelling and application to human models
- Human interaction with virtual environments
- Simulator-based evaluations of human factors issues, computer simulation of human behaviour
- Modelling of human cognition and cognitive load, digital human modelling and simulation tools
- Developments in simulation technology and virtual environments to address human factors issues
- Human performance modelling, modelling of human sensation
- Simulation and prediction of human physiological responses in real and virtual environments
- Numerical biomechanical models in human factors simulations
- Posture and motion prediction, human factors workload, strain, and comfort modelling
- Modelling of human-robot interaction
- Simulation of health responses in human factors contexts
- Implementation of digital human models in workplace design, injury prediction and prevention
- Methods of human motion simulation in man-machine environments
- Selected aspects of man-machine-interface (MMI) modelling

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