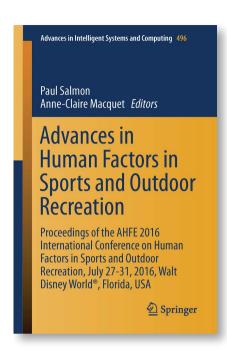


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Advances in Human Factors in Sports and Outdoor Recreation

Proceedings of the AHFE 2016 International Conference on Human Factors in Sports and Outdoor Recreation, July 27-31, 2016, Walt Disney World®, Florida, USA

Series: Advances in Intelligent Systems and Computing, Vol. 496

- Discusses human factors research in both sports and outdoor activities
- ▶ Describes novel applications of complex sports safety systems
- ► Highlights the importance of cognitive and social human factors in sport performance

This book describes cutting-edge applications of human factors for sport and outdoor recreation disciplines and provides practical guidance on a range of methods for describing, representing, and evaluating human, team, and system performance in sports domains. Contributions in this book show how various human factors methods, applied historically in the complex safety critical domains, are suited to describing and understanding sports performance and sports injury prevention. The book discusses a wealth of methods for different purposes, such as data collection, task analysis (including cognitive task analysis), workload measurement, assessing situation awareness, performance assessment (including team performance assessment), decision making and cognition in sports, human error identification, and interface evaluation methods. With respect to other publications in human factors and ergonomics, which have been more focused on the biomechanical, physiological, environmental, and equipment-related aspects of sports performance, this book gives a special emphasis to research on analysis of individual and team sports, cognitive and social human factors, and covers both sports and outdoor recreation disciplines. Based on the AHFE 2016 International Conference on Human Factors in Sports and Outdoor Recreation, held on July 27-31, 2016, in Walt Disney World®, Florida, USA, this book provides readers with a timely survey of new methods that can be implemented during any sport or outdoor recreation event for analyzing and improving the performance and safety of both individuals and teams.



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