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Human motion analysis and understanding is fundamental in many real applications including surveillance and monitoring, human-machine interface, sport event analysis, medical motion analysis and diagnosis, motion kinematics modeling, etc. Statistical learning approach is one major frontier for computer vision research. In recent years, machine learning, and especially, statistical learning theories and techniques, have evidenced rapid and fruitful developments, and are under the way to make significant contributions to the area of vision-based human motion understanding. This edited book provides a comprehensive treatment of recent developments in the application of modern statistical machine learning approaches for modeling, analyzing and understanding human motions from video data. We would like to express our sincere thanks to IGI Global to offer us the opportunity to edit such a book on this exciting area.

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