

Handbook of Human Motion

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Abstrak

Over the past century, technology has made it possible to measure human motion in many ways and with new levels of precision, becoming a tool in many applications and professional branches including medicine, sports science and forensics. Some branches have developed in response to the technology, such as the emergence of motion-capture animation in the film industry. These different applications use the same or similar types of equipment with the general intention of making the systems as intuitive as possible for the participants. However, the methodologies necessary to produce reliable results in these areas differ enormously. The overlap of information between fields might lead to situations where small but important adaptations are required in order to produce the required result; experts with knowledge of one field might not be aware of such developments. The Handbook of Human Motion brings together contributions from many different disciplines, covering the established and emerging technologies employed, the challenges posed in each area of application and the novel solutions reached by researchers.