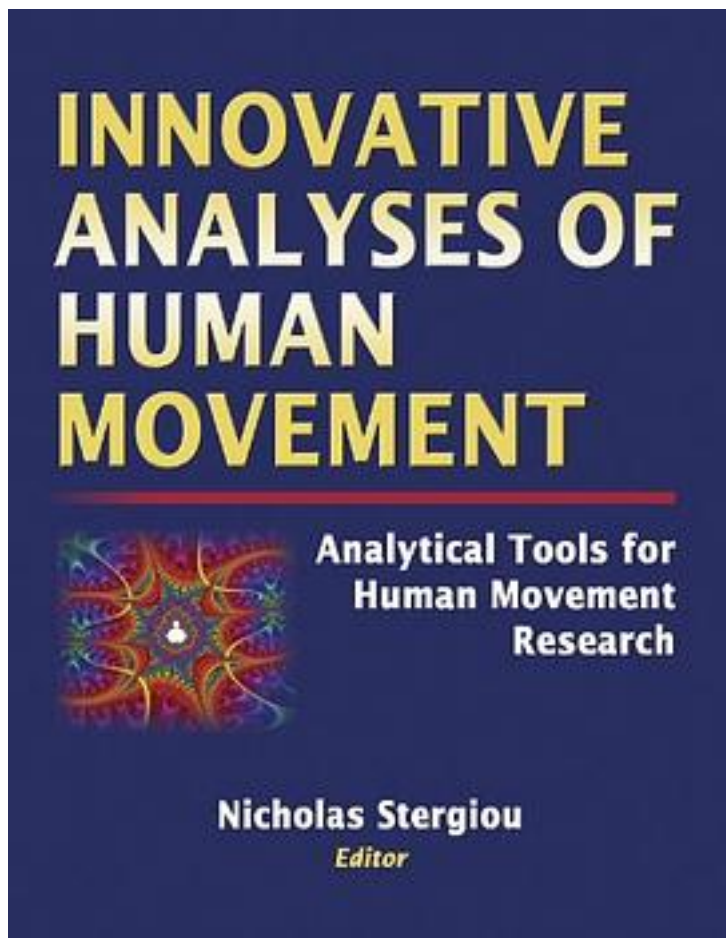


Innovative Analyses of Human Movement



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This essential text will bring you up to date on the latest and most appropriate mathematical and statistical procedures for analyzing small and large biomechanical data sets. You'll learn how to use the newest and most innovative techniques in your

own research, and you'll understand how these methods apply to data analysis. If you're a student or professional who deals with measurement issues in human movements, this resource is invaluable. "Innovative Analyses of Human Movement" is conveniently divided into three parts: the mathematics and statistics applied to variability in human movements, dynamical systems methods and directional circular statistics as applied to coordination in human movements, and the analysis of complex data sets. Each of the nine chapters is well organized and provides sample data sets and examples of how to use and apply the techniques. Contributors from all over the world provide knowledge about human movement. The text includes complete, step-by-step examples that illustrate how each technique applies to data analysis. It also presents techniques using a tutorial approach to prepare readers for real-life research studies. Many other features make this an easy-to-use tool for human movement scientists: -Key terms are highlighted in the text and defined in a glossary for quick understanding. -Work problems allow you to test your skills in using and solving the described technique. -Suggested readings and resources listed for each chapter point you to additional background information. -Web sites point readers to relevant software and information. In addition, the book uses a case study approach that will help readers quickly associate the method of interest with the appropriate application. If you're a student or professional who deals with measurement issues in human movement, this resource is a must.

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