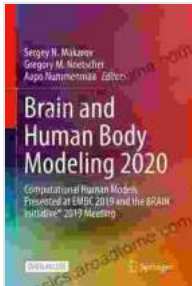# Computational Human Modeling at EMBC 2024

Brain and Human Body Modeling: Computational Human Modeling at EMBC 2024 by Gina Rippon

★★★★☆ 4.5 out of 5

Language	: English
File size	: 78475 KB
Text-to-Speech	: Enabled
Screen Reader	: Supported
Enhanced typesetting	: Enabled
Print length	: 605 pages

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Computational human modeling is a rapidly growing field that is revolutionizing the way we understand and interact with the human body. This book provides a comprehensive overview of the latest advances in computational human modeling, with a focus on the application of these techniques to the study of human movement and rehabilitation.

What is computational human modeling?

Computational human modeling is the use of computer simulations to create virtual representations of the human body. These models can be used to study a wide range of human movement, including walking, running, jumping, and reaching. Computational human models can also be used to simulate the effects of various injuries and diseases on human movement.

Applications of computational human modeling

Computational human modeling has a wide range of applications in the field of rehabilitation. These applications include:

- **Injury prevention:** Computational human models can be used to identify potential injury risks in athletes and other individuals who are at risk for injury.

- **Treatment planning:** Computational human models can be used to develop personalized treatment plans for individuals with injuries or disabilities.

- **Rehabilitation monitoring:** Computational human models can be used to track the progress of individuals undergoing rehabilitation.

Benefits of computational human modeling

There are many benefits to using computational human modeling in the field of rehabilitation. These benefits include:

- **Precision:** Computational human models provide a level of precision that is not possible to achieve with traditional methods of studying human movement.

- **Objectivity:** Computational human models are objective and unbiased, which makes them ideal for research purposes.

- **Repeatability:** Computational human models can be used to conduct repeated experiments, which allows researchers to investigate the effects of different variables on human movement.

The future of computational human modeling

Computational human modeling is a rapidly growing field with a bright future. As the technology continues to improve, computational human models will become increasingly realistic and accurate. This will make them even more valuable for use in the field of rehabilitation.

In the future, computational human models will be used to:

- Develop new and innovative treatments for injuries and disabilities.

- Personalize rehabilitation programs to the individual needs of each patient.

- Conduct research on the causes and prevention of injuries and disabilities.
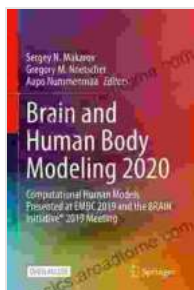
EMBC 2024

The Engineering in Medicine and Biology Conference (EMBC) is the world's leading conference in the field of biomedical engineering. EMBC 2024 will be held in San Diego, California, from August 27th to 31st. The conference will feature a wide range of presentations on the latest advances in computational human modeling.

If you are interested in learning more about computational human modeling, I encourage you to attend EMBC 2024. The conference will provide an excellent opportunity to learn from leading experts in the field and to see firsthand the latest advances in computational human modeling.

Free Download your copy today!

Computational Human Modeling at EMBC 2024 is a must-read for anyone who is interested in the latest advances in computational human modeling.
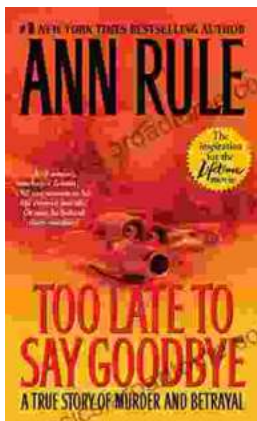
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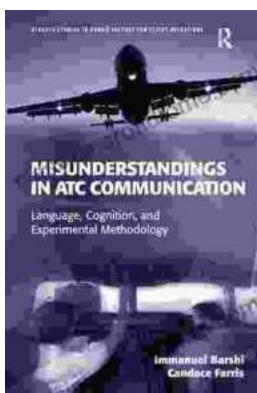
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