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Introduction

The SIMULATION special issue on Distributed and Real-Time Simulation of Next-Generation Complex Systems explores innovative methodologies that harness advancements in computing, communication, and sensing technologies to model, understand, and optimize complex systems. The issue includes five research papers showcasing the latest techniques and applications in distributed and real-time simulation, providing valuable insights into the potential and diversity of this field.

"Unleashing Dynamics: Exploring Distributed and Real-Time Simulation for the Challenges of Next-Gen Complex Systems"

- SIMULATION special issue on Distributed and Real-Time Simulation of Next-Generation Complex Systems

- Traditional simulation methods struggle to capture adaptive, nonlinear, and emergent nature of complex systems

"Technological Frontiers: Advancements in Distributed and Real-Time Simulation Techniques"

- Distributed and real-time simulation approaches harness advancements in computing, communication, and sensing technologies

- Five research papers showcase latest techniques and applications in distributed and real-time simulation

"Exploring Cutting-Edge Simulation Technologies: From Network Performance Estimation to Disease Spread Modeling and Real-Time Simulation for Autonomous Driving"

- Topics include network performance estimator, modeling the spread of disease, and real-time multipath simulator for autonomous driving
- Special issue offers insights into potential and diversity of distributed and real-time simulation for next-generation complex systems

"Navigating the Horizon: Challenges and Opportunities in the Future of Research and Advancements"

- Highlights challenges and opportunities for future research and advancements in this field.

Conclusion

In conclusion, the elements of summary, motivation, contribution, methodology, conclusion, limitations, and synthesis are essential components of academic and research papers. They provide a comprehensive framework for presenting and communicating the key aspects of the work to the audience. By effectively utilizing these elements, authors can convey their research or work in a clear, concise, and impactful manner.