

# **10th Conference on Complex Networks: Complenet 2019 Proceedings - Unleashing the Power of Network Science!**

Complex Networks have become a fascinating field of study in the last decade, bridging the gap between various disciplines such as mathematics, physics, computer science, and social sciences. These networks can represent a wide range of real-life systems, including social networks, biological networks, transportation networks, and the internet, among others. The 10th Conference on Complex Networks, also known as Complenet 2019, presented by Springer, is a premier event in the field, bringing together researchers, practitioners, and enthusiasts to share their latest findings and insights in this vibrant and evolving field.

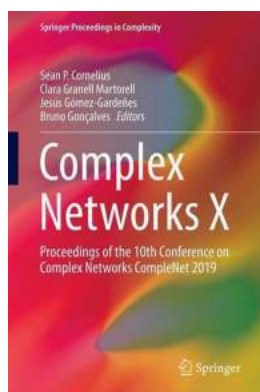
## **Unraveling the Complexity of Complenet 2019**

Complenet 2019, organized by Springer, is the 10th edition of the Conference on Complex Networks, aimed at promoting collaboration and knowledge exchange among researchers and professionals from diverse domains. This year's conference was held in Bologna, Italy, attracting a diverse crowd of participants from all over the world.

## **Keynote Speakers**

The conference featured an impressive lineup of keynote speakers who are leading experts in the field of Complex Networks. These renowned researchers

shared their groundbreaking work and innovative ideas, stimulating discussions and inspiring the attendees. Some of the keynote speakers included:



## Complex Networks X: Proceedings of the 10th Conference on Complex Networks CompleNet 2019 (Springer Proceedings in Complexity)

by Bruno Gonçalves (1st ed. 2019 Edition, Kindle Edition)

★★★★☆ 4.4 out of 5

Language : English

File size : 19880 KB

Text-to-Speech : Enabled

Screen Reader : Supported

Enhanced typesetting : Enabled

Print length : 264 pages



- Prof. Albert-László Barabási: A distinguished physicist known for his contributions to network science and his discovery of the scale-free property of complex networks.
- Prof. Alessandro Vespignani: A prominent figure in the field of modeling and predicting the spread of epidemics on complex networks.
- Prof. Renaud Lambiotte: An expert in dynamical processes on networks, focusing on community detection, diffusion processes, and spreading phenomena.
- Prof. Paola Flocchini: A leading researcher in distributed computing and algorithm design, applying network science to solve complex problems.

## Topics and Sessions

The conference covered a broad range of topics related to complex networks, including but not limited to:

- Social and Economic Networks
- Biological and Neuroscience Networks
- Technological and Infrastructure Networks
- Information and Collaboration Networks
- Resilience and Robustness of Complex Networks
- Network Modeling and Visualization
- Network Algorithms and Analysis

Each session at CompleNet 2019 offered a unique opportunity to delve deeper into these topics, with experts presenting their research findings, methodologies, and novel approaches to studying complex networks. The interactive nature of the conference encouraged participants to ask questions, share their own experiences, and engage in fruitful discussions.

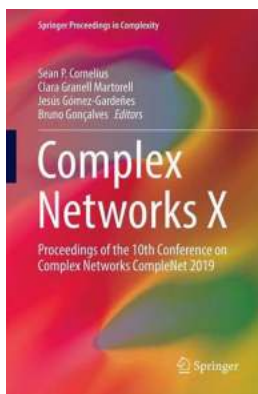
## **Paper Proceedings**

The Proceedings of CompleNet 2019, published by Springer, ensures that the valuable scientific content presented at the conference reaches a wider audience. These proceedings comprise a compilation of research papers, carefully selected to represent the cutting-edge advancements and current trends in the field of complex networks. Researchers, academics, and practitioners can access these papers, expanding their knowledge base and gaining insights into the latest discoveries in network science.

## **Networking Opportunities**

CompleNet 2019 provided an ideal platform for attendees to connect with like-minded individuals, fostering collaborations and creating lasting professional relationships. The conference facilitated networking sessions, social events, and informal gatherings, enabling participants to exchange ideas, discuss potential research collaborations, and find support in their respective fields.

The 10th Conference on Complex Networks, CompleNet 2019, organized by Springer, truly exemplifies the power of network science in unravelling the complexity of real-world systems. With its remarkable keynote speakers, diverse range of topics, and valuable networking opportunities, this conference contributed significantly to the advancement of complex networks research. By bringing together experts from various disciplines, CompleNet 2019 has undoubtedly propelled the field of network science towards new horizons, fuelling innovation and expanding our understanding of the intricate connections that shape our world.



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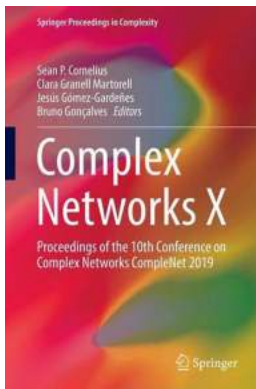
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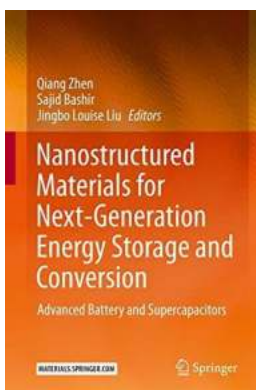


This book aims to bring together researchers and practitioners working across domains and research disciplines to measure, model, and visualize complex networks. It collects the works presented at the 10th International Conference on Complex Networks (CompleNet) in Taragona, Spain, March, 2019. With roots in physical, information and social science, the study of complex networks provides a formal set of mathematical methods, computational tools and theories to describe, prescribe and predict dynamics and behaviors of complex systems. Despite their diversity, whether the systems are made up of physical, technological, informational, or social networks, they share many common organizing principles and thus can be studied with similar approaches. This book provides a view of the state-of-the-art in this dynamic field and covers topics such as group decision-making, brain and cellular connectivity, network controllability and resiliency, online activism, recommendation systems, and cyber security. This text will appeal to students and researchers in the field.



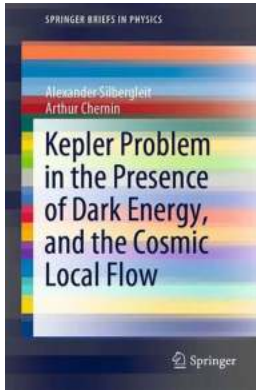
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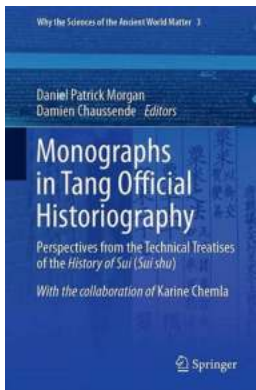
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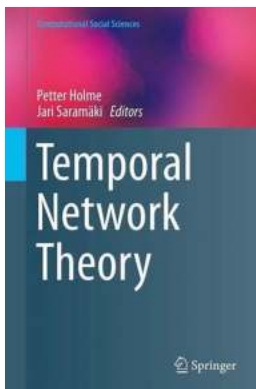
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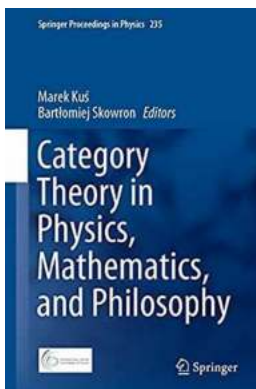
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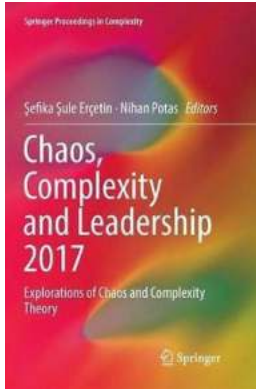
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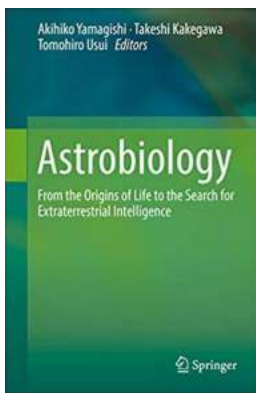
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