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# **Advances in Complex Systems Modelling via Hypergraphs II**

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# **Message from the Guest Editors**

Hypergraphs overcome these limitations by allowing hyperedges to connect simultaneously more than two nodes would. The greater modelling capabilities of multiway relationships have been demonstrated in fields such as biology (e.g., protein–protein interaction networks) and social networks (e.g., collaboration networks). Yet, the power of hypergraphs is not limited to a mere representation of data. Hypergraphs and simplicial complexes also play a key role in the emergent field of topological data analysis, whose aim is to analyze a set of data (or point clouds) using techniques derived from topology and mathematics. In fact, rather than analyzing the data themselves (which can be difficult due to noise, high dimensionality, and so on), one can build a filtered set of simplicial complexes and study their properties.













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## **Message from the Editor-in-Chief**

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