

How to Model Small Systems: From Soccer to Sex and the City

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Abstract: There are certain contexts, where we would like to analyze the behavior of small interacting systems, such as soccer teams or families. While large interacting systems have drawn much attention in the past years, let it be physical systems of interacting particles or social networks, small systems are short of appropriate

Quantitative modeling and measurement tools. In this talk, I present several ideas and methodologies for analyzing a small system mainly through the degree in which its behavior at different granularity levels (e.g., dyads) non-linearly diverges from the simple additive behavior of its sub-units.