



MITx 6.419x

Data Analysis: Statistical Modeling and Computation in Applications

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1. Objectives

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In this lecture, we will learn the definitions and properties of four graphical models:

- The definition of the **Erdos-Renyi** model.
- The edge probability and degree distributions of the **Erdos-Renyi** model.
- The phase transitions of the **Erdos-Renyi** model.
- The definition of the **Configuration** model.
- The edge probability of the **Configuration** model.
- The definition of **Price's** preferential attachment model.
- The definition of the **Small-World** model.

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