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Title: **Network Science: From structure to control**

Abstract

Systems as diverse as the world wide web, Internet or the cell are described by highly interconnected networks with amazingly complex topology. A key discovery of network science is the realization that real networks emerge and evolve following self-organizing processes governed by simple but generic laws, resulting in architectural features that makes them much more similar to each other than one would have expected by chance. I will discuss the order characterizing our interconnected world and its implications to network robustness, and control.