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Anton Bernshteyn* (bahtoh@gatech.edu). *Descriptive combinatorics and distributed algorithms.*

Descriptive combinatorics is the study of combinatorial problems (such as graph coloring) under additional topological or measure-theoretic regularity restrictions. It turns out that there is a close relationship between descriptive combinatorics and distributed computing, i.e., the area of computer science concerned with problems that can be solved efficiently by a decentralized network of processors. In this talk, I will outline this relationship and present a number of applications. (Received September 10, 2020)