
KATY BEELER, Wake Forest University
Deterministic walks, fairness, and choice

In this talk we discuss deterministic movement over toroidal grids (and more generally, Cayley graphs), integrating local information, bounded memory and choice at individual nodes. The research is motivated by recent work on deterministic random walks, and applications in multi-agent systems. Several results regarding passing tokens through toroidal grids are discussed, as well as some open questions.