VAHID DABBAGHIAN-ABDOLY, Simon Fraser University, Burnaby, BC, V5A 1S6 Implementation of Cellular Automata Models on Maple

Cellular Automata is a discrete dynamical model providing an excellent platform for performing behaviour of complex systems with the help of only local information. In this talk I will present a cellular automata model for describing the dynamics of urban transformations such as spread of infectious disease and crime. In particular I will show implementation of some cellular automata models on Maple.