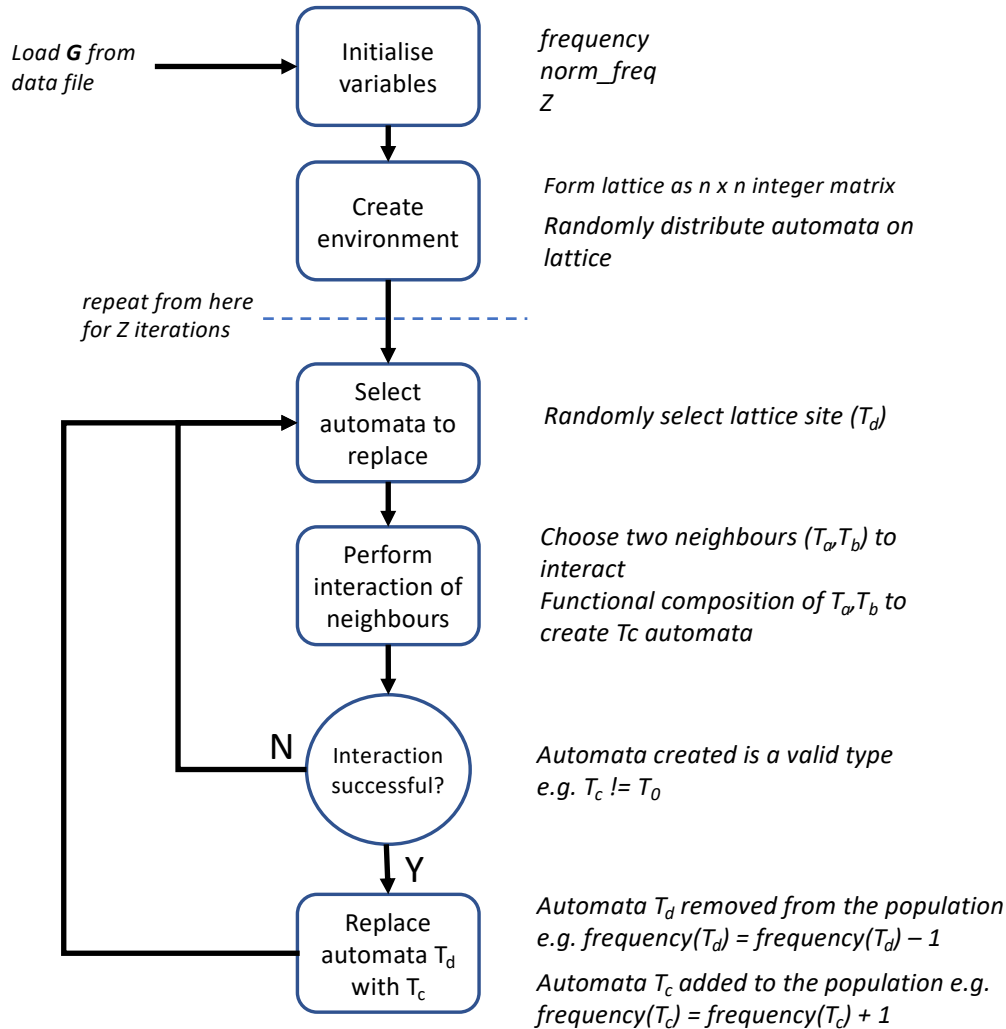


## 1. The information niche simulation procedure



Variable	Declaration	Description
frequency	1 x T integer vector	The absolute count of each automata type in the population at time t
norm_freq	1 x T real vector (normalized)	The normalized frequency distribution of each automata type in the population at time t
popDynamics	Z x T real matrix	The history of the normalised frequency distribution of the population from 1...Z (Z = total no. of iterations)

Constant	Declaration	Description
T	cell	The list of automata types
N	Integer	Population size (e.g. 90,000 automata in the population)
n	Integer	The width of the square lattice (e.g. 300)
G	T x T integer matrix	The interaction network for the population where each element of the matrix represents the automata type produced from the interaction of the automata $T_i$ and $T_j$
Z	Integer	Total no. of iterations of the simulation