

How do brains smell?

Alvaro Cabana

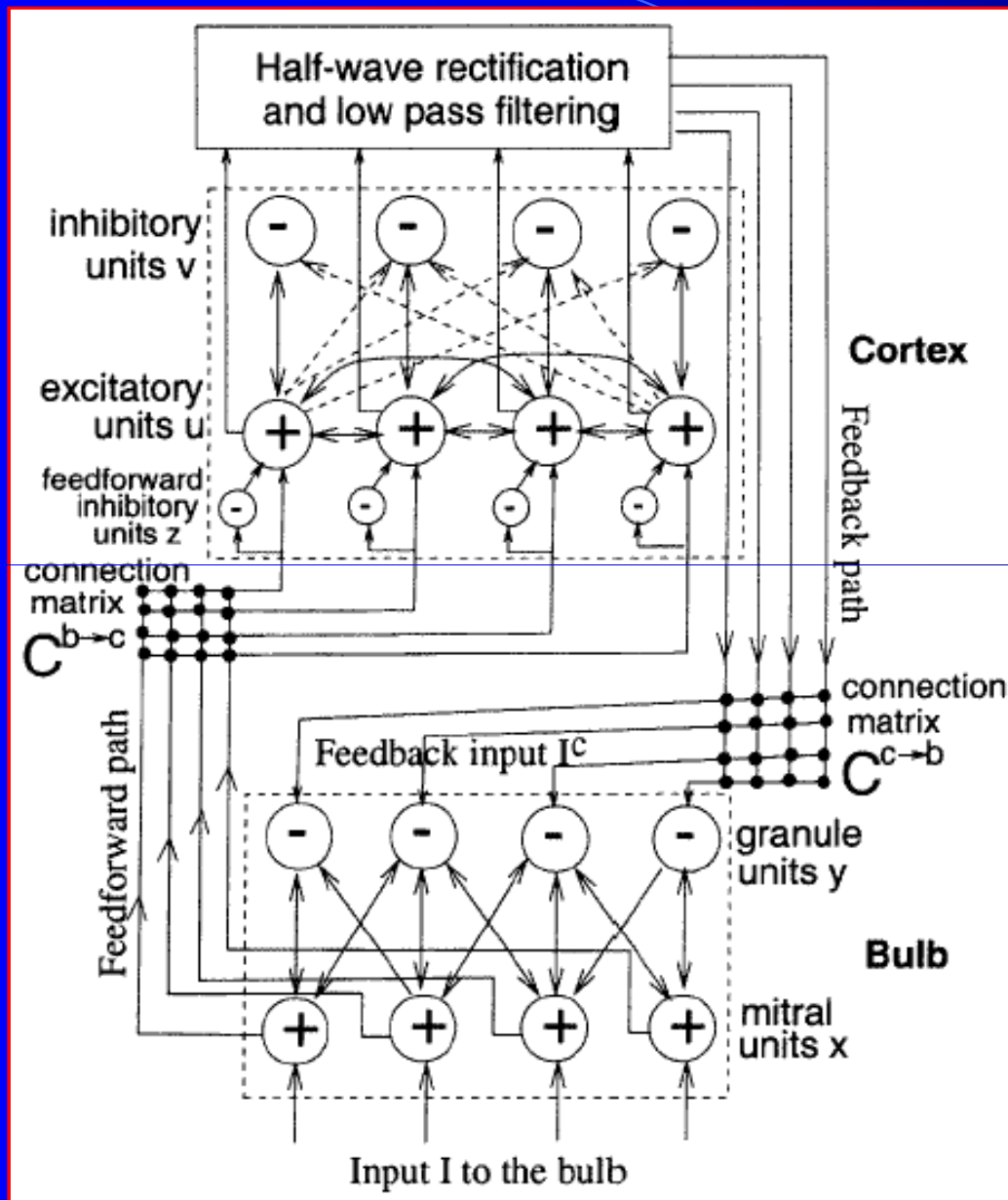
Jesse Lasky

Bruno Mota

Grace Xu

Special thanks to Prof. Marcelo Kuperman for his kind assistance with this project

The olfactory system I



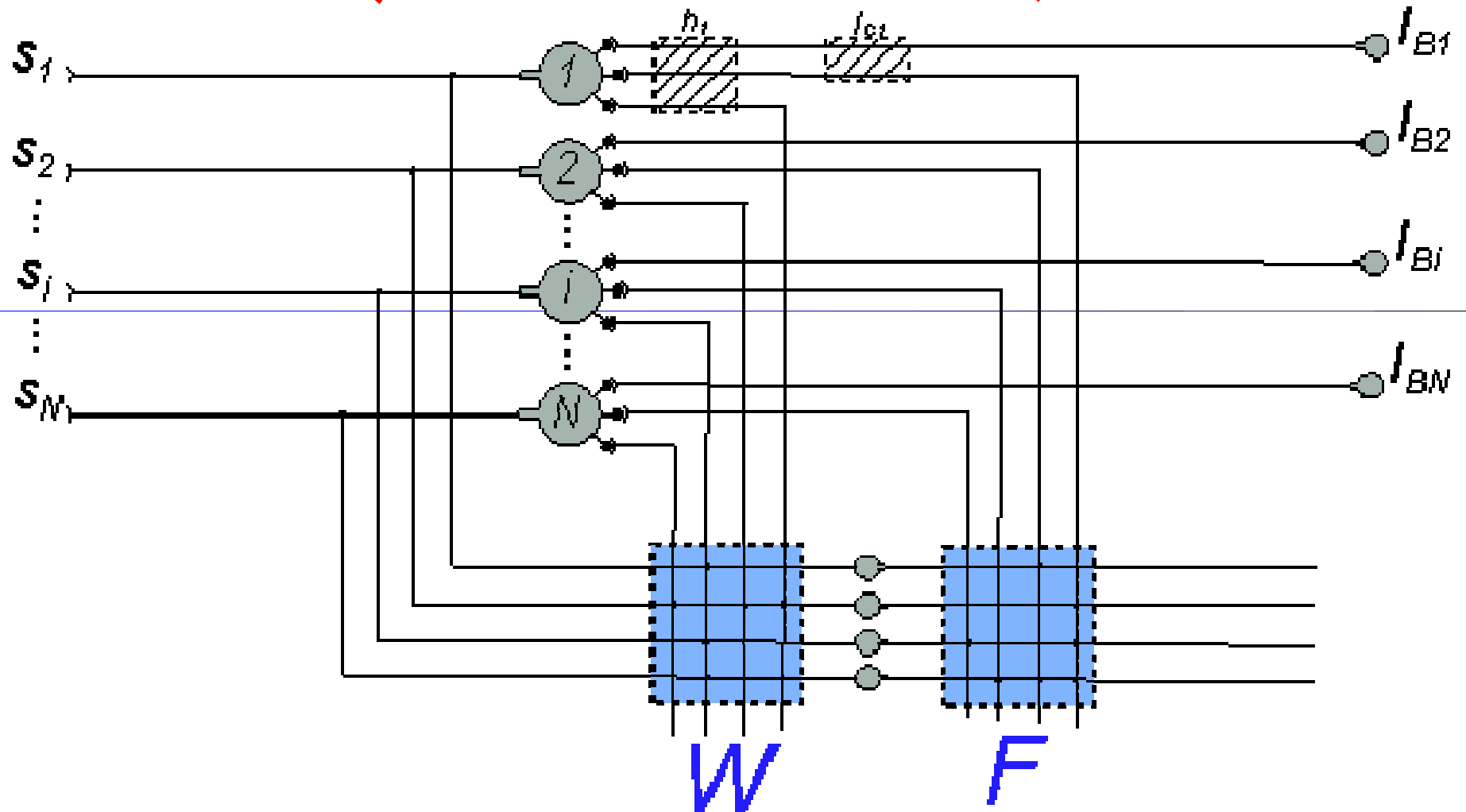
Pattern recognition

Pattern suppression

The olfactory system II – Analog to digital

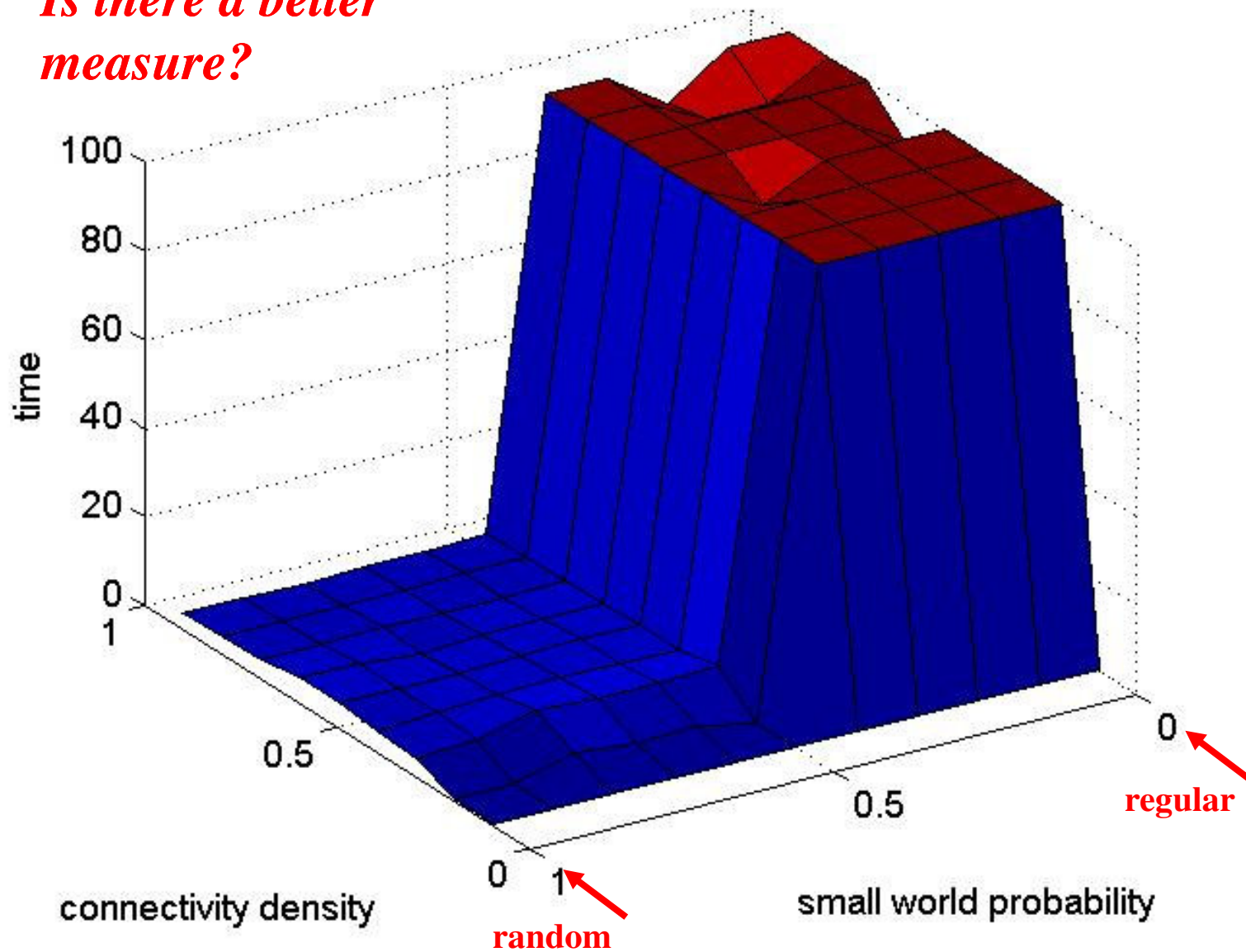
Pattern matching

Pattern suppression

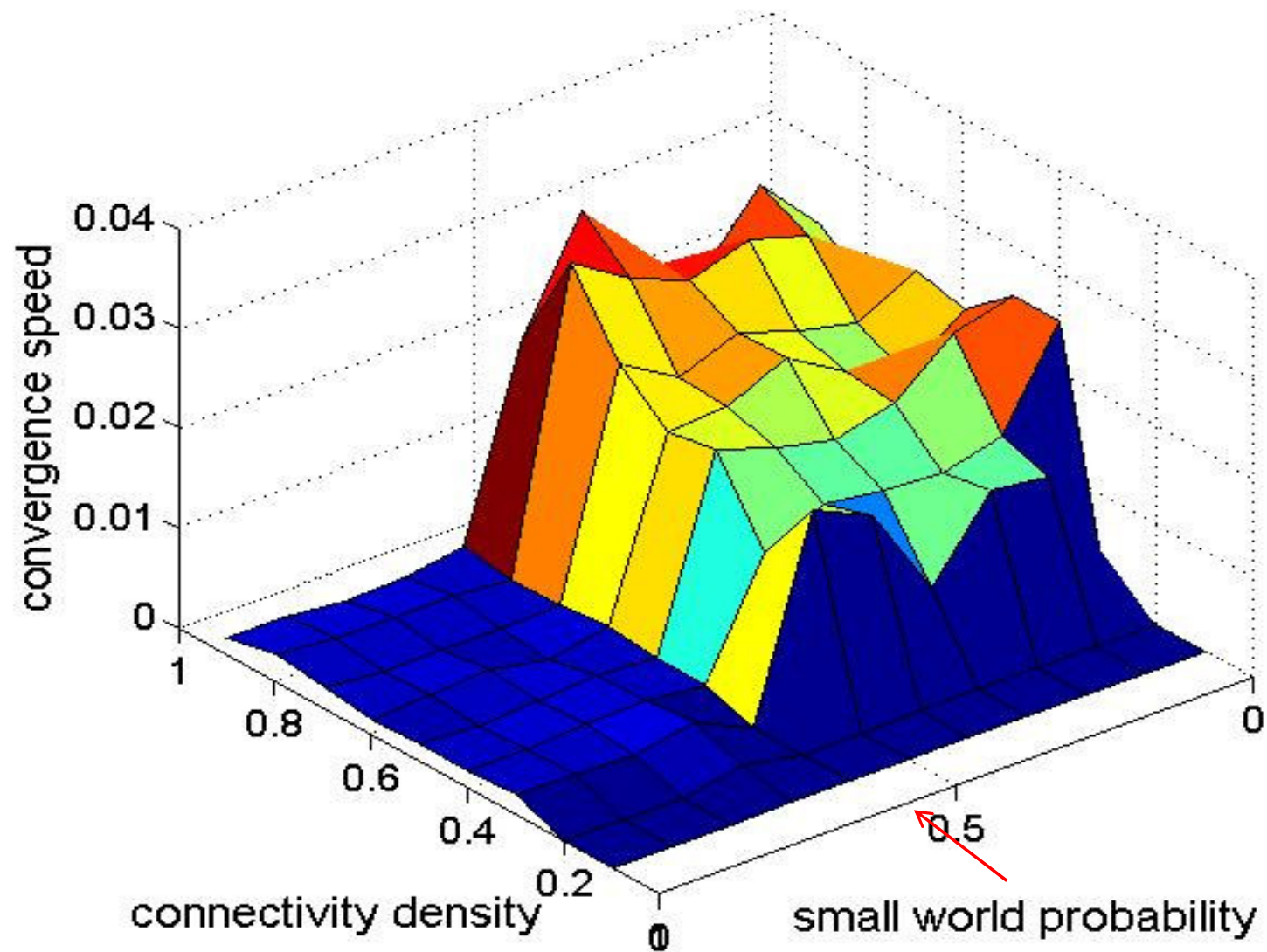


Relaxation time

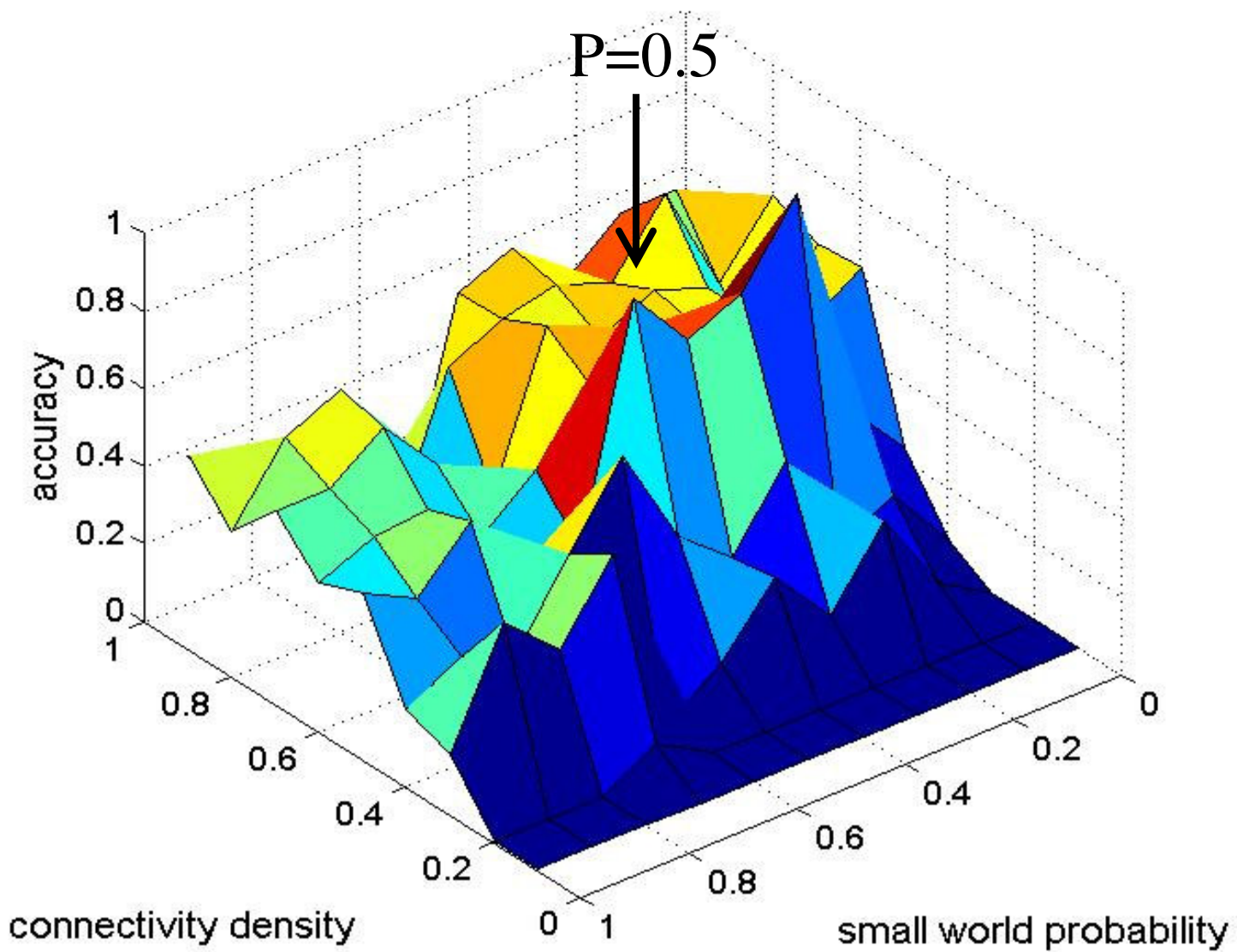
Is there a better measure?



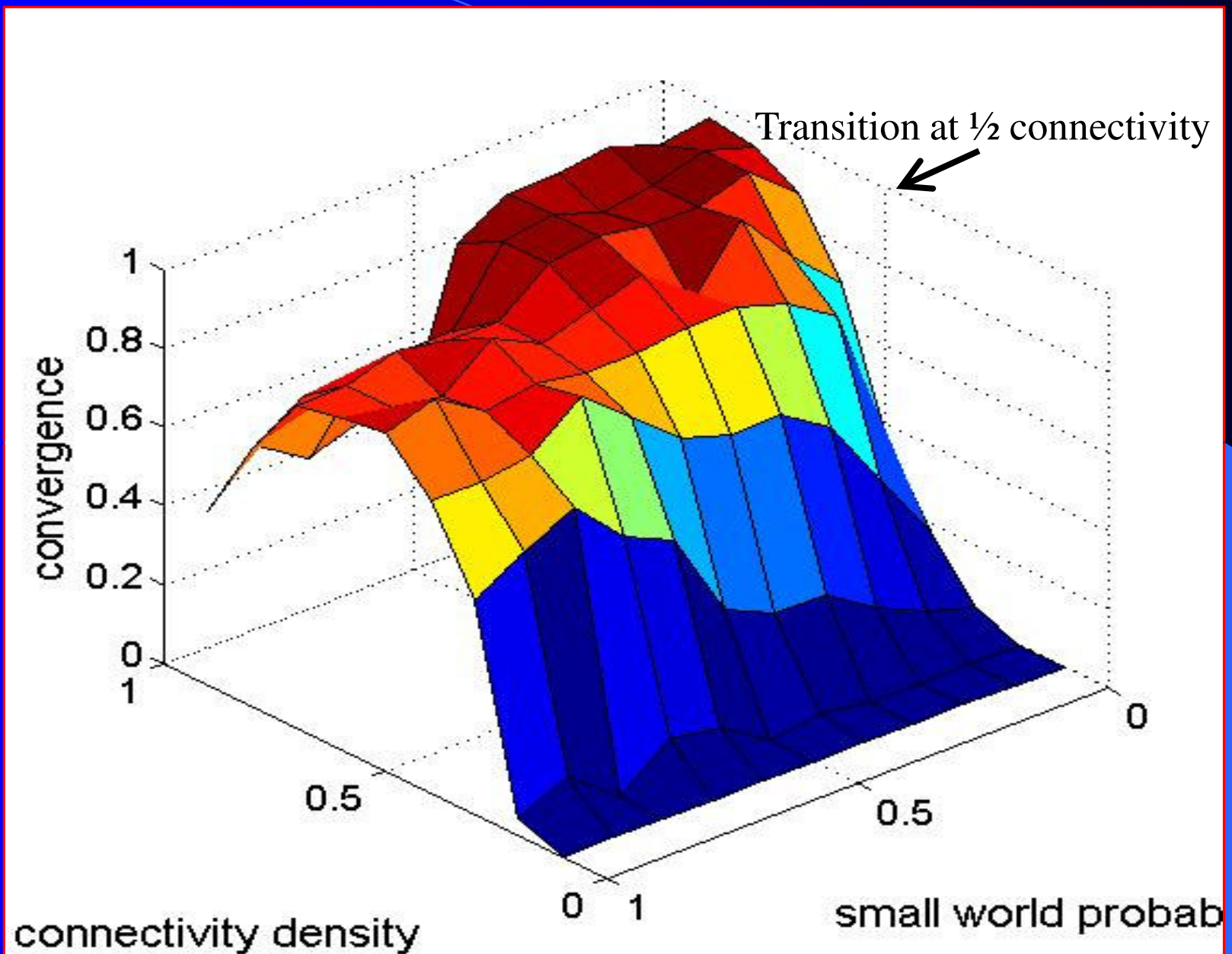
Convergence speed



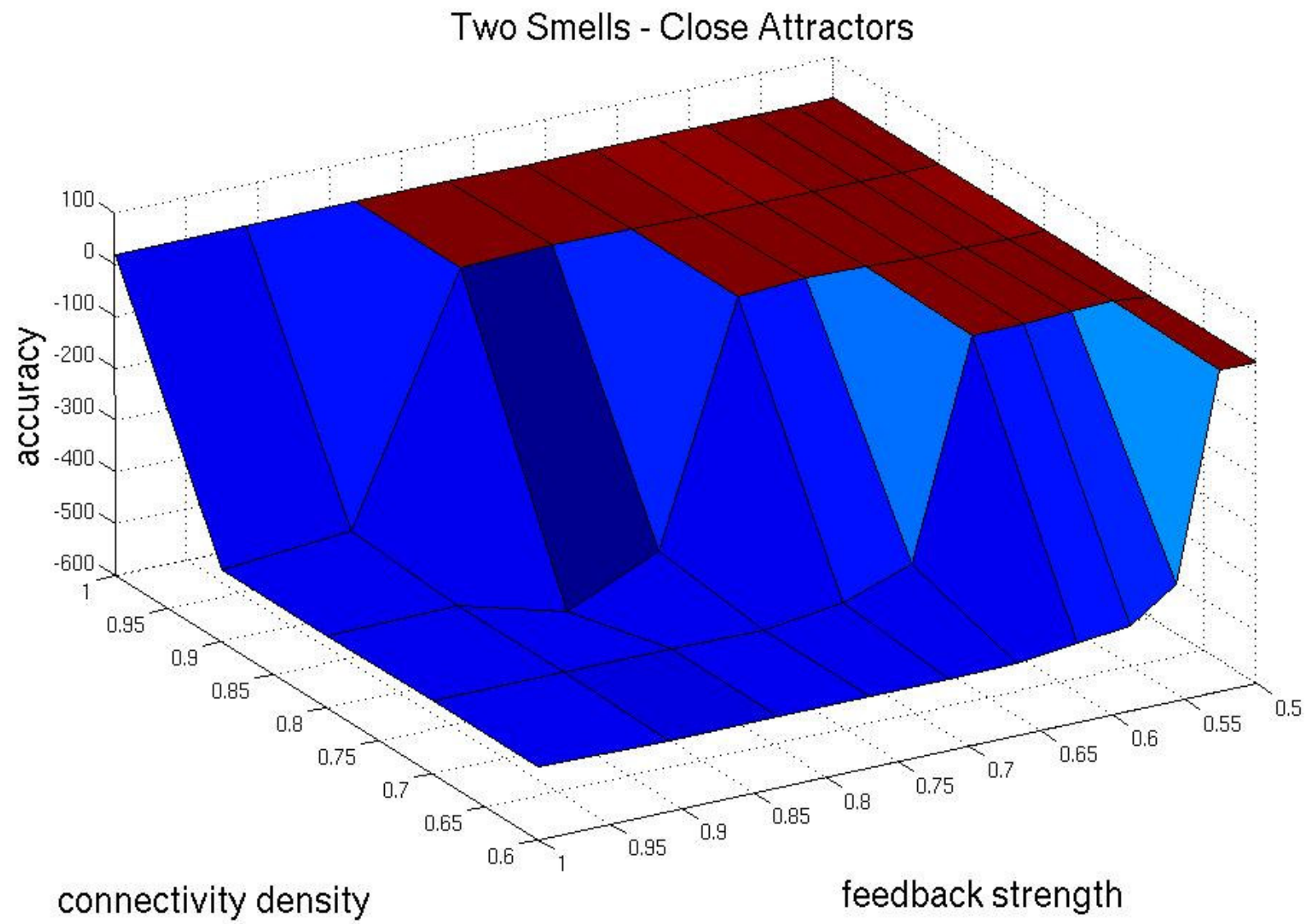
Accuracy of pattern-matching



Convergence efficiency



Adjusting the feedback



Sequential detection of scents

