DeMaMech 2005-2006 Exchange Project

Host University TU Delft
DTU

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The University of Tokyo

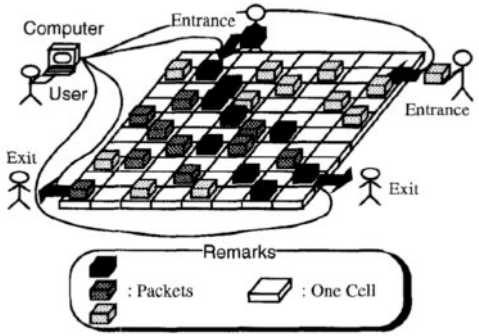
Summary

- TU Delft (Sep/2005-Dec/2005)
  - Research : Deadlock detection using neural networks

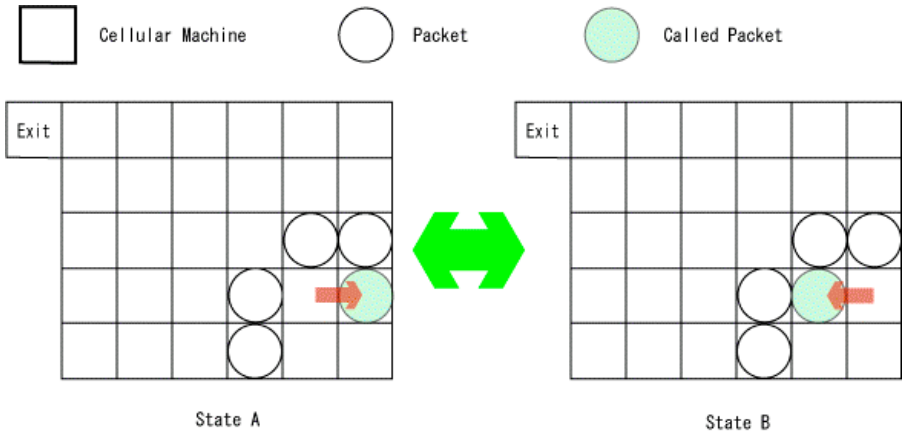
- DTU (Jan/2006)
  - Course : Image analysis

Research(1)

- **Deadlock Detection on Cellular Machines using Neural Network**
  - **Aim : to detect the state of the deadlock on cellular machines without global information**



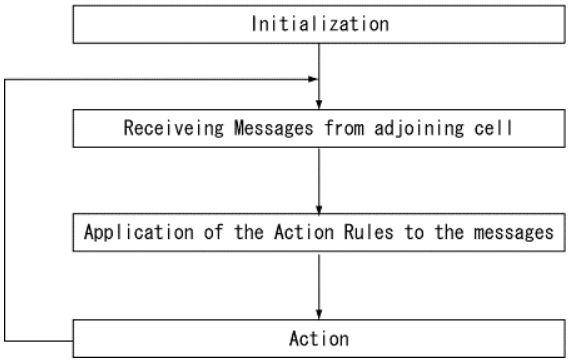
Neural networks algorithm may detect the deadlock from local information

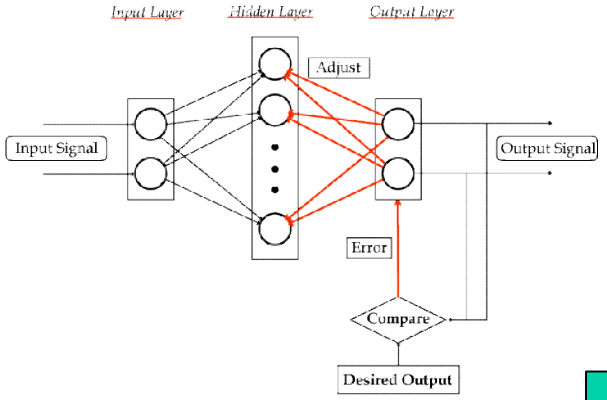


Research(2)

- We applied the cellular warehouse as cellular machines

Using Back propagation algorithm
to detect deadlock patterns





We can detect the some patterns of deadlock
using neural networks in this system.

Exchange student life

In Delft,
the Netherlands
(4 months)

In Copenhagen,
Denmark
(1 month)