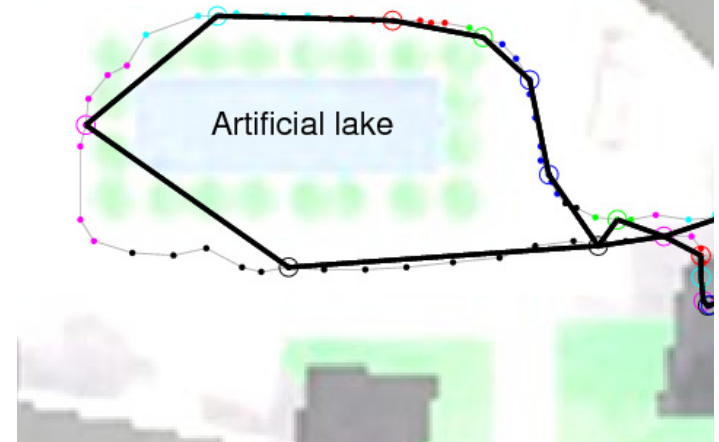


Incremental Spectral Clustering and Its Application To Topological Mapping

Christoffer Valgren and Achim Lilienthal
Dept. Of Technology, Örebro University, Sweden
Tom Duckett

Dept. of Computing and Informatics, University of Lincoln, UK

- General purpose clustering algorithm: an extension of spectral clustering
- Example application: appearance-based topological mapping
- The entire affinity matrix does not have to be computed
- Incremental, but supports node merging and splitting



Part of topological map,
generated by the algorithm.