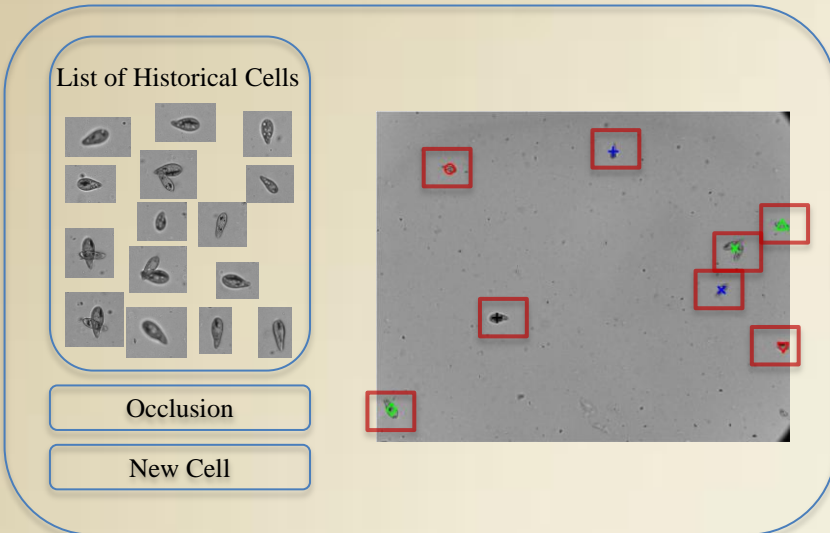


Tracking *Tetrahymena Pyriformis* Cells using Decision Trees

Quan Wang, Yan Ou, A. Agung Julius, Kim L. Boyer, Min Jun Kim

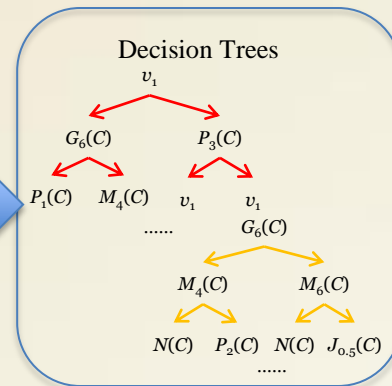


Cells in current frame to be matched with history

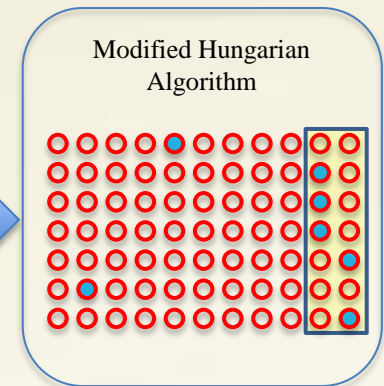
➤ We want to track cells for motion control using magnetic field.

➤ We make it a classification problem and use decision trees as classifiers.

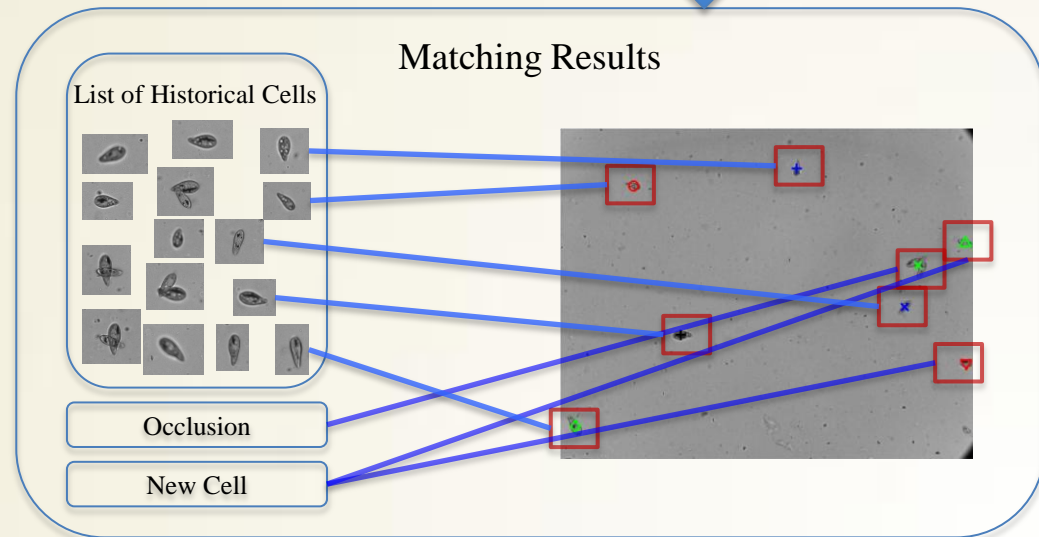
➤ Algorithm is very fast and runs in real-time.



Trees are learned from training data



Designed for our assignment problem



Matching Results