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## Properties

- Very old algorithm
- P. Smith, G. Buechler, A Branching Algorithm for Discriminating and Tracking Multiple Objects, IEEE Trans. Automatic Control, Vol. 20, pp. 101-104, 1975.
  Improvement over NN assignment.
- Assignment decisions are delayed until more information is available.
- Many problems remain
- Exponential complexity, heuristic pruning needed.
- Merging of track nodes is necessary, because tracks may share measurements, which is physically unrealistic.
- ⇒ Would need to add exclusion constraints such that each measurement may only belong to a single track.
- ⇒ Impossible in this framework...

## 29 Lecture: Computer Vision 2 (SS 2016) – Multi-Object Tracking Prof. Dr. Bastian Leibe, Dr. Jörg Stückler







