Precise Memory Leak Detection for Java Software Using Container Profiling

Authors: Guoqing Xu and Atanas Rountev.

We'll classify related work by:

- **Approach:** Static vs. Dynamic
- **Target:** Containers vs. Arbitrary objects
- **Metric:** Staleness vs. Growth
Dynamic Approaches

**Container Based**

Staleness

THIS PAPER

LeakHunter

**Arbitrary Objects**

Bond et al. 2006
*Bit-encoding online memory leak detection*

**Visualization only:**
JProbe
JProfiler

Jump et al. 2007
Cork

Mitchel et al. 2003
Leakbot
Static Approaches

- D. L. Heine and M. S. Lam. Static detection of leaks in polymorphic containers. 2006.
  - Only container-based static technique