



Honeywell ACS Labs

Integrated Security Technology

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Honeywell

Integrated Security Technology Section

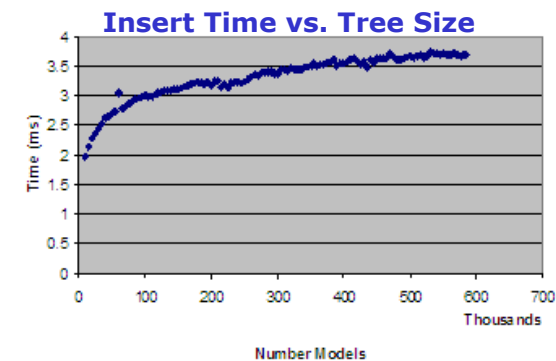
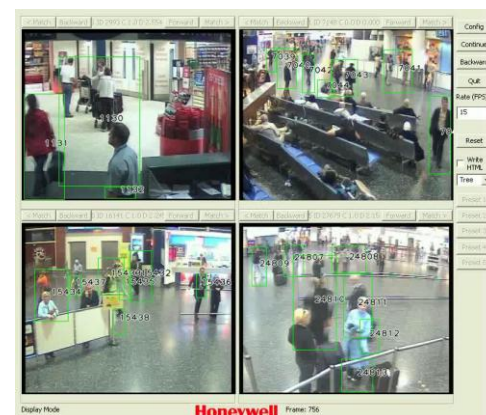
- Thrusts:
 - Video surveillance
 - Activity recognition from a network of cameras, video indexing, object detection
 - Biometrics
 - Iris recognition at a distance
 - Cybersecurity
 - Anomaly detection, pattern detection and recognition for access control and cybersecurity
- People:
 - 15 scientists (7PhD) in Golden Valley, MN.
 - 10 scientists (4PhD) at HTSL Bangalore,
 - 3 scientists (2PhD) at Prague
- Funding sources
 - Honeywell business units
 - DARPA – Cyber security, video indexing
 - Other governmental agencies: IARPA, ARL/BTF, SPAWAR, DHS...

Advanced Analytics and Computational Imaging

- Leverage and augment Honeywell Solutions
 - Active Alert core level functionalities
 - Onboard cameras video analytics
 - Management of large video repositories
- Augmenting video surveillance systems with biometrics
 - Standoff iris-based biometrics system
 - Enhanced tracking of people across a network of cameras
 - Face detection & recognition in low resolution imagery
- Online indexing and data filtering capabilities
 - Object and event based indexing of video streams for fast retrieval
 - Analysis of multiple source of data
- Computational imaging
 - Investigating new optics design and image formation paradigms

Key Capabilities relevant to ALADDIN

- Video Analytics for features and object extraction
 - Content-based indexing of videos
- Online indexing and retrieval of objects of interest
 - Forensic analysis often requires browsing thousands of video clips
- Indexing of spatio-temporal features of large dimensionality
 - Enabling the use of similarity or classifier based indexing
- Distributed framework for online indexing of detected objects of interest
 - Scalable architecture allowing faster than real time ingest of features and metadata
- Data filtering and online learning for improving retrieval of data relevant to the analyst
 - Operator in the loop



Contact Information

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