

- Irvine Sensors Corporation
- James W. Justice
- Team Members: None at Present



- Development and Evaluation of techniques based on emulation of the human visual path processing and exploitation.
- Rapid Learning Techniques.
- Efficient Processing Architectures
- Extension of Cognitive Inspired Processing to 3D LIDARs and hyperpectral sensor suites.



Qualifications

Irvine Sensors has a current Product, ALERT[®], based on emulation of Visual path processing and image exploitation.

- GPU-based unit for real-time, multi-camera image exploitation
- Based on research programs conducted for DARPA and DIA

ALERT[®] uses scientifically verified models for <u>cognitive saliency and object</u> <u>recognition</u>

Computes Temporal/Spatial/Color content OF ALL IMAGES and determines "Salient" content

Tracks and Classifies the salient objects in the video data streams

Persons/vehicles/ dropped objects/etc./certain types of noise

Identifies key events/actions based on behaviors of the tracked and classified salient objects

Persistence of dropped object/ entry into specified zones/crowd formation-dispersal/etc.

"Informs" the System

 Annotates key events in video data streams/provides prioritized alerts to operators/provides metadata to VMS.



Desired Role

- Integrated Video Analytic Product Team Lead
- Support for development and incorporation of advances in activity characterization and assessment



Contact Information

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