IARPA HAYSTAC Lightning Talk
Kitware, Inc.

Website: https://kitware.com/expertise

Dr. Anthony Hoogs
VP of Artificial Intelligence
anthony.hoogs@kitware.com

Kitware Computer Vision Team
• Open source software R&D: algorithms & applications, image & data analysis, training data, integration, and testing
• 202 employees: ⅓ PhD, ⅔ masters
• Offices: Albany, NY; Chapel Hill, NC; Santa Fe, NM; Arlington, VA, Minneapolis, MN; Lyon, France
• Secure facility: Albany, NY; 44+ cleared personnel

Commercial and Government Business Models
• Commercial: 10% of Revenue
  • Efficient commercial contract process
  • Commercial business models to suit commercial business needs
• Government: 90% of Revenue
  • Efficient government contract process
  • All government-funded software is provided with unlimited rights to the government
  • Released as open source when permitted
Proven Relevant Capabilities

- Established leader in computer vision and ML R&D for IC and military applications, including video and other MOVINT data.
- Significant capabilities in simulating vehicular traffic to support the development of algorithms for anomaly detection, tracking, activity detection, threat detection and patterns of life modeling.
- Extensive experience with detecting anomalies, activities and behaviors of humans and moving objects in many temporal and spatial resolutions & domains.
- Incorporate ethical considerations into all aspects of system design, development, execution, and data management in past and current programs. This aligns well with HAYSTAC privacy issues.
- Large-scale collaborations with universities including integration and hardening for blind program evaluations and technology transition to operational agencies.

Vehicular Track Simulation and Anomaly Detection

- Extensive CV and ML expertise; 30+ PhDs, 14 years, $70M+ in CV/ML R&D contracts from DARPA, IARPA, NGA, AFRL, IC, NOAA, ARL, ONR
- Prime on IARPA SMART, BRIAR, DIVA, CORE3D; DARPA URSA, Semafor, Medifor, SAIL-ON. Sub on XAI, LwLL, PANDA,
- Extensive experience in dataset generation (real & simulated), curation and dissemination, with full HSR protocols and validated privacy protection
- All provided with unlimited rights to the Government.

Teaming Pursuits: Why work with Kitware?

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