Air Force Seeks Development of Enterprise Collection Planner

Riverside Research's Modeling and Application Development Laboratory (MAD Lab) has been awarded a subcontract by Lockheed Martin Information Systems & Global Solutions to support the Air Force Distributed Common Ground System (AF DCGS) Program Office at Warner Robins Air Logistics Center, Ga., in developing the Enterprise Collection Planner (ECP). The ECP will enable DCGS collection planners to automatically or manually generate route and sensor plans based upon common collection parameters. It will also provide near real-time, 3-D visualizations of flown missions in a Visual Aircraft Mission Management Portal (VAMMP), a planning and analysis tool designed by the MAD Lab under this subcontract. VAMMP will allow collection planners to clearly see how a sensor's footprint is affected by aircraft routes, terrain features and other analytical components. Leveraging experience with the previously developed Automated Collection Planning Tool, a satellite collection planning suite used by the National Geospatial-Intelligence Agency, and the interactive Aircraft Mission Planner, Riverside Research will collaborate with other Lockheed Martin team members in developing the ECP.

John Ploschnitznig;
jploschnitznig@riversideresearch.org

FMV System Adds Automatic Target-Detection Software

General Dynamics Advanced Information Systems' deployable, mobile and highly tactical system to capture and manage full motion video (FMV), TAC-MAAS, now features Sentient's Kestrel Land Moving Target Indication and Kestrel Maritime automatic target detection software. This integrated offering allows mission operators and analysts to quickly transform raw data from unmanned systems into actionable intelligence and streamline the post-mission forensic analysis of video. Designed for in-theater operations where ease-of-use and low system overhead are vital, TAC-MAAS enables operators and analysts to capture and manage FMV by discovering, tagging and analyzing mission-critical events in real time. When combined with Kestrel's ability to automatically detect a variety of targets in airborne electro-optical and infrared aerial live video streams, analysts will be able to detect small, slow-moving targets on land and water that might otherwise have been missed or gone undetected using traditional means.

Jessica Howe;
jessica.howe@gd-ais.com

Geoimaging Solution Serves Oblique, 3-D Sensors

Visual Intelligence has released a new geoimaging solution for the rapidly growing oblique and 3-D sensing market. The iOne n-Oblique is a multi-purpose, high performance sensor that allows collection companies of all sizes to take advantage of new revenue opportunities related to oblique and 3-D imagery. The iOne n-Oblique takes advantage of the iOne Sensor Tool Kit Architecture, a next-generation software/hardware foundation for high-performing, multi-purpose 2-D/3-D geoimaging sensors for aerial, terrestrial and mobile applications.

Rich Miller;
rmiller@dstreetpr.com

Software Creates Fully Textured 3-D Building Models

PCI Geomatics, a developer of remote sensing and photogrammetric software and systems, and partner IAVO have released 3D FeatureXtract (3DFE). By calculating feature heights and outlines of overlapping satellite or aerial imagery, 3DFE can model 3-D features in a 2-D environment, and it does this without any need for specialized hardware. PCI Geomatics continues to provide leading-edge tools to correct satellite and aerial imagery, having recently released its GXL 2013 software, which includes innovative 2.5-D hybrid DSM-to-DTM editing tools. With 3DFE, customers perform true ortho processing, delineate building footprints, and create fully textured 3-D building models.

Kevin R. Jones Director;
jones@pcigeomatics.com

Multispectral Sensor Combines Capabilities in One Unit

BAE Systems has introduced one of the smallest multispectral sensors available for unmanned systems, helping to improve soldier situational awareness by reducing the time required to identify targets. The company's Digitally Fused Sensor System (DFSS) offers a combination of multiple capabilities in a single sensor so that users can intuitively assess a scene using an unmanned vehicle in time-critical situations. The DFSS system allows soldiers to see laser designator spots even in darkness, making it easier to coordinate and confirm target marking with unmanned aerial vehicles. The shading and high-definition imagery provide depth to the scene, and rapid target acquisition is enabled when the system cues the operator to potential problem areas. By blending low-light and infrared images in a single display, fighting forces get a broad range of imaging options, including full daylight, deep shadows, dawn and dusk, illuminated night operations and darkness. The unmanned aerial, ground or underwater vehicle provides the picture via a sensor mounted to the vehicle.

Eric Hansen;
eric.hansen@baesystems.com