KASSPER

Knowledge-Aided Sensor Signal Processing and Expert Reasoning

KASSPER Workshop Agenda

14-16 April 2003
Las Vegas, NV

14 April 2003

1730 – 2200	Registration and No-Host Reception

15 April 2003

0800 - 0830	Registration and Breakfast
0830 - 0930	Featured Address – "KASSPER: A Framework for Next Generation Adaptive Sensors" Dr. Joseph Guerci, DARPA
0930- 0955	"Signal Processing Evaluation, Analysis and Research Facility" W. Baldygo, AFRL and J. Tyler , Black River Systems Company
0955 -1020	"Multi Resolution Signal Processing Techniques for Airborne Radar" J. Bergin, ISL Inc.
1020-1045	Break
1045 - 1110	"A Knowledge Aided STAP Architecture" B. Melvin, GTRI
1110 - 1135	"Knowledge Acquisition and Exploitation to Enhance STAP Performance" Allan Corbeil, Technology Services Corporation
1135 - 1200	"Knowledge Aided SAR Target Detection and Display Remap" M. Nayeri, Veridian
1200 - 1330	Lunch
1330 - 1355	"Incorporating Past CPI Data into Knowledge-Aided STAP Processing" D. Page, Alphatech
1355 - 1420	"Toward a New Paradigm for Airborne Surveillance Radar" D. Fuhrmann, Washington University
1420 - 1445	"Insertion of Prior Knowledge into the Multistage Wiener Filter" J. Hiemstra, SAIC

1445 - 1510	Break
1510 - 1535	"Using a Plane-Wave Signal Model to Suppress Clutter and Calibrate the Array" G. Legters, SAIC
1535 - 1600	"Knowledge Based Map Space Time Adaptive Processing" C. Capraro, Capraro Technologies
1600 – 1625	"Reduced Degree-of-Freedom STAP with Knowledge-Aided Data Pre-Whitening" P. Techau, ISL Inc.
1630	Adjourn

<u>16 April 2003</u>

SECRET

0800 - 0830	Registration and Breakfast
0830 - 0930	Featured Address: "KASSPER Impacts on Tracking" Mr. Jon Jones AFRL/IFEA
0930- 0950	Some Relevant Remarks Dr. Joseph Guerci, DARPA
0950 -1015	"Using the AFRL SPEAR Facility for Knowledge-Aided Algorithm Development" B. Bozek, Black River Systems Corporation
1015-1040	Break
1040 - 1105	"KASSPER Real-Time Embedded Signal Processor Testbed" G. Schrader, MIT Lincoln Lab
1105 - 1130	"Knowledge Bases Enhance Joint STARS Signal PreProcessing (SPP) Performance" R. Floto, Northrop Grumman
1130 - 1155	"Height Estimation using Matched Terrain Processing" C. Marino, Orincon
1155 - 1330	Lunch
1330 - 1355	"DEM Aided GMTI Processing" W. Luse, Lockheed Martin
1355 - 1420	"Multi-Resolution Processing to Enhance Knowledge-Aided STAP" G. Showman, GTRI
1420 - 1445	"Improving Ground Moving Target Indication Performance" N. Pulsone. MIT Lincoln Laboratory
1445 - 1510	"Knowledge Aided Clutter Prediction and Comparison" D. Braunreiter, Raytheon
1510	Closing Remarks and Adjourn