

NATO ASI - Scientific Programme
Multisensor Data and Information Processing for Rapid and Robust Situation and Threat Assessment
Albena, Bulgaria 16-27 May 2005

Week 1

Mon	AM	Registration Registration Welcoming (Lefebvre E - Dimov I)
	PM	Sensor Data Fusion: Methods and Applications 1 (Koch) Unsolved, Difficult, and Misunderstood Problems/Approaches in Fusion Research (Shahbazian-Gorodetski- Pogossian - Asatryan) Sensor Data Fusion: Methods and Applications 2 (Koch)
Tue	AM	Uncertainty Models in Information Fusion: Comparative Analysis and Heterogeneous Uncertainties Fusion Issue (Shahbazian-Gorodetski- Pogossian - Asatryan) Simulation of Distributed Sensor Networks (Alexiev-Chernyak-Kabakchiev-Kharytonov) Sensor Data Fusion: Methods and Applications 3 (Koch)
	PM	Joint Target Tracking and Classification via Sequential Monte Carlo Filtering (Agelova-Opitz-Kaush-Barehn) A Survey on Assignment Techniques (Agelova-Opitz-Kaush-Barehn) Non-linear Techniques in Target Tracking and Classification (Agelova-Opitz-Kaush-Barehn)
Wed	AM	Comparison of Weighted Backvalues Least Squares and NOGA Track Estimators for Airborne Remote Sensing Applications (Agelova-Opitz-Kaush-Barehn) Enhancing Efficiency of Threats Dynamic Analysis for Combating and Competing Systems (Shahbazian-Gorodetski- Pogossian - Asatryan) Challenges of splitting error analysis for Environmental Security Modeling (Dimov-Hadjitodorov)
	PM	A Computer System for Acoustic Analysis of Pathological Voices and Screening of Laryngeal Diseases (Dimov-Hadjitodorov) Performance of Approximation and Decision Schemes in Evidence Theory for Robust Ship Identification in Airborne Maritime Surveillance Missions (Valin-Bossé) Panel Discussion
Thu	AM	Effects of Interactions Between Operator and Fusion System (Lefebvre-Ménard-Allard) Target behaviour recognition for situation assessment : Application to the maritime context (Lefebvre-Ménard-Allard) Belief functions theory for multisensor data fusion 1 (Vannoorenberghe)
	PM	Belief functions theory for multisensor data fusion 2 (Vannoorenberghe) Robust methods of statistical processing for detection of structural changes in the multivariate data (Shahbazian-Gorodetski- Pogossian - Asatryan) Dempster-Shafer evidence theory through the years: limitations, practical examples, variants under conflict, and a new adaptive combination rule (Verlinde-Valin-Bossé)
Fri	AM	Decision Support and Information Fusion in the Context of Command and Control (Verlinde-Valin-Bossé) Belief functions theory for multisensor data fusion 3 (Vannoorenberghe) Fusion of classifications of multi-sensor data by belief functions (Verlinde-Valin-Bossé)
	PM	The DS_mT approach for information fusion and some open challenging problems (Dézert-Smarandache-Tchamova) Unification of Fusion Theories (Dézert-Smarandache-Tchamova) MultiTarget Tracking Applications of Dezert-Smarandache Theory (DS _m T) of Plausible and Paradoxical Reasoning (Dézert-Smarandache-Tchamova)

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Week 2

Mon	AM	Image Registration: A Tutorial 1 (Varshney-Sundareshan) Data fusion in remote sensing: applications 1 (Ranchin-Goretta) Image Registration: A Tutorial 2 (Varshney-Sundareshan)
	PM	Data fusion in remote sensing: applications 2 (Ranchin-Goretta) Automatic Registration Algorithms for Fusion of Multiple Image Frames to Assist Robust Situation and Threat Assessment (Varshney-Sundareshan) Image Fusion and remote sensing (Ranchin-Goretta)
Tue	AM	Tutorial on signal processing 1 (Bull) Fusion of fixed sensors data with satellite imagery for area surveillance and target recognition (Lefebvre-Ménard-Allard) Tutorial on signal processing 2 (Bull)
	PM	Multi-Sensor Image Fusion: Techniques and Applications (Nikolov-Mihaylova-Snidaro) Object Tracking by Particle Filtering Techniques in Video Sequences (Nikolov-Mihaylova-Snidaro) Data fusion and quality assessment of fusion products (Zirilli)
Wed	AM	Mathematical models of smart obstacles (Zirilli) Tutorial on signal processing 3 (Bull) Numerical methods to solve Kushner equation (Zirilli)
	PM	Data fusion techniques and video sensor performance estimation for ambient security (Nikolov-Mihaylova-Snidaro) Panel Discussion Posters Presentation
Thu	AM	Assessment and Evaluation Fusion Techniques 1 (Blash-Steinberg) Higher level Fusion for Catastrophic Events (Smirnov-Rogova-Sroka) Ontology-Driven Knowledge Integration from Heterogeneous Sources for Operational Decision Making Support (Smirnov-Rogova-Sroka)
	PM	Assessment and Evaluation Fusion Techniques 2 (Blash-Steinberg) Principles and Methods of Situation Assessment (Blash-Steinberg) Development of Ukrenian Segment of GMES (Alexiev-Chernyak-Kabakchiev-Kharytonov)
Fri	AM	Multisensor data fusion in the processes of weighing and classification of the moving vehicles (Smirnov-Rogova-Sroka) Secondary Application Wireless Technologies Increasing the Information Potential for Defense against Terrorism (Alexiev-Chernyak-Kabakchiev-Kharytonov) New Capabilities of Ultra-Wideband Multisite Radar Systems with Information Fusion in object detection and localization (Alexiev-Chernyak-Kabakchiev-Kharytonov)
	PM	Closing (Lefebvre E - Dimov I) Departure Departure