

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**

<b>Mon</b>	AM		Registration Registration Welcoming (Lefebvre E - Alexiev K)
	16	PM	L1 Sensor Data Fusion: Methods and Applications 1 (Koch) L2 Unsolved, Difficult, and Misunderstood Problems/Approaches in Fusion Research (Shahbazian) L1 Sensor Data Fusion: Methods and Applications 2 (Koch)
<b>Tue</b>	AM		L1 Sensor Data Fusion: Methods and Applications 3 (Koch) L2 Simulation of Distributed Sensor Networks (Alexiev) L3 Joint Target Tracking and Classification via Sequential Monte Carlo Filtering (Agelova)
	17	PM	L3 A Survey on Assignment Techniques (Opitz) L3 Non-linear Techniques in Target Tracking and Classification (Kaush) L3 Comparison of Weighted Backvalues Least Squares and NOGA Track Estimators for Airborne Remote Sensing Applications (Barhen)
<b>Wed</b>	AM		L4 Target behaviour recognition for situation assessment : Application to the maritime context (Lefebvre) L4 Fusion of fixed sensors data with satellite imagery for area surveillance and target recognition (Allard) L2 Enhancing Efficiency of Threats Dynamic Analysis for Combating and Competing Systems (Pogossian)
	18	PM	L5 Evidence Theory for Robust Ship Identification in Airborne Maritime Surveillance Missions (Valin) L4 Effects of Interactions Between Operator and Fusion System (Ménard) L2 Robust methods of statistical processing for detection of structural changes in the multivariate data (Asatryan)
<b>Thu</b>	AM		L6 Belief functions theory for multisensor data fusion 1 (Vannoorenberghe) L7 Dempster-Shafer evidence theory through the years: limitations, practical examples, variants under conflict, and a new adaptive combination rule (Florea) L6 Belief functions theory for multisensor data fusion 2 (Vannoorenberghe)
	19	PM	P1 Posters Presentation P1 Posters Presentation P1 Posters Presentation
<b>Fri</b>	AM		L7 Decision Support and Information Fusion in the Context of Command and Control (Bossé) L6 Belief functions theory for multisensor data fusion 3 (Vannoorenberghe) L7 Fusion of classifications of multi-sensor data by belief functions (Yvinec)
	20	PM	L8 The DSMT approach for information fusion and some open challenging problems (Dézert) L8 Unification of Fusion Theories (Smarandache) L8 MultiTarget Tracking Applications of Dezert-Smarandache Theory (DSMT) of Plausible and Paradoxical Reasoning (Tchamova)

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**Week 2**

<b>Mon</b>	AM	L9	Image Registration: A Tutorial 1 (Kasperovich)
		L10	Data fusion in remote sensing: applications 1 (Ranchin)
<b>23</b>		L9	Image Registration: A Tutorial 2 (Kasperovich)
	PM	L10	Data fusion in remote sensing: applications 2 (Ranchin)
		L10	Image Fusion and remote sensing 1 (Céleste)
		L10	Image Fusion and remote sensing 2 (Goretta)
<b>Tue</b>	AM	L9	Image Registration: A Tutorial 3 (Kasperovich)
		L11	Adaptive Image Fusion Using Wavelets: Algorithms and System Design (Nikolov)
		L11	Methods for Fused Image Analysis and Assessment (Loza)
<b>24</b>	PM	L11	Object Tracking by Particle Filtering Techniques in Video Sequences (Mihaylova)
		L11	Wavelets, Segmentation, Pixel- and Region- Based Image Fusion (Nikolov)
		L12	Data fusion and quality assessment of fusion products (Zirilli)
<b>Wed</b>	AM	L11	Information Management Methods over Sensor Networks (Mihaylova)
		L9	Automatic Registration Algorithms for Fusion of Multiple Image Frames to Assist Robust Situation and Threat Assessment 1 (Sundareshan)
		L12	Mathematical models of smart obstacles (Zirilli)
<b>25</b>	PM	L9	Automatic Registration Algorithms for Fusion of Multiple Image Frames to Assist Robust Situation and Threat Assessment 2 (Sundareshan)
		L12	Numerical methods to solve Kushner equation (Zirilli)
		L11	Data fusion techniques and video sensor performance estimation for ambient security (Snidarov)
<b>Thu</b>	AM	L13	Assessment and Evaluation Fusion Techniques 1 (Blash)
		L14	Higher level Fusion for Catastrophic Events (Rogova)
		L14	Ontology-Driven Knowledge Integration from Heterogeneous Sources for Operational Decision Making Support (Smirnov)
<b>26</b>	PM	L13	Assessment and Evaluation Fusion Techniques 2 (Blash)
		L13	Principles and Methods of Situation Assessment (Steinberg)
		L15	Development of Ukrainian Segment of GMES (Kharytonov)
<b>Fri</b>	AM	L14	Multisensor data fusion in the processes of weighing and classification of the moving vehicles (Sroka)
		L15	Secondary Application Wireless Technologies Increasing the Information Potential for Defense against Terrorism (Kabakchiev)
		L15	Rapid and Reliable Content Based Image Retrieval (Dimov D.)
<b>27</b>	PM		Closing (Lefebvre E - Alexiev K)
			Departure
			Departure