

**Oral Presentations for Tuesday 8<sup>th</sup> July 2003 (Morning)**

08:00 – 09:00		Plenary Talk Topic						
	Ballroom 1	Paper No	Ballroom 2	Paper No	Marina 1	Paper No	Marina 3	
09:20 – 10:40	<b>Paper No</b>	<b>Multi-sensor Fusion I Chair: J. Percival (DSTO Aust)</b>	<b>Paper No</b>	<b>Nonlinear filtering Chair: N. Gordon (DSTO Aust)</b>	<b>Paper No</b>	<b>Acoustic Processing Chair: S. Challa (University of Melbourne Aust)</b>	<b>Paper No</b>	<b>SS2: Distributed Co-operative Agents I Chair: R. Bowyer (DSTO Aust)</b>
	164	Multi Sensor Fusion for Object Detection Using Generalized Feature Model <i>H Cramer, U Scheunert, G Wanielik</i>	42	Robust Guaranteed Cost Filtering for a Class of Nonlinear Systems <i>D F Coutinho, K A Barbossa, A Trofino, C E de Souza</i>	73	Flight Path Estomation Using Multipath Delay Measurements from a Wide Aperture Acoustic Array <i>K W Lo, B G Ferguson</i>	(13)	Distributed Information Fusion Agents <i>D Perugini, D Lambert, L Sterling, A Pearce</i>
	199	Joint kinematic and feature tracking using probabilistic argumentation <i>D Khosla, Y Chen</i>	101	The over-extended Kalman filter - don't use it! <i>D Bizup, D Brown</i>	85	Active object localization using speaker arrays <i>C Lai, P Aarabi</i>	(14)	Teamed Agent-based Sensor Management <i>A Lucas</i>
	157	Joint multi-sensor kinematic and attribute tracking using Bayesian belief networks <i>M Krieg</i>	93	A quaternion-based unscented Kalman filter for orientation tracking <i>E Kraft</i>	111	Target tracking using passively sensed transient signals <i>D Carevic</i>	(16)	Semantic Interoperability of Knowledge Bases: How can agents share knowledge if they don't speak the same language? <i>D Corbett</i>
	40	Sensor/Data fusion based on value of information <i>S Kadambe, C Danielle</i>	84	A Rao-Blackwellised unscented Kalman filter <i>M Briers, S Maskell, R Wright</i>	120	Joint sound localization and orientation estimation <i>B Mungamuru, P Aarabi</i>	(19)	The Application of Agent Team Formation to ES Sensors on mini-Autonomous Air Vehicles for Geo-location of Radar Systems <i>K Brown, S Drake, R Bowyer, R Bogner</i>
10:40 – 11:10		Tea Break						
11:10 – 12:30	<b>Paper No</b>	<b>Multi-sensor Fusion 11 Chair: D. Blair (Georgia Tech USA)</b>	<b>Paper No</b>	<b>Sensor registration Chair: J Legg (DSTO Aust)</b>	<b>Paper No</b>	<b>Image Fusion 1 Chair: E. Blasch (AFRL / SNA, USA)</b>	<b>Paper No</b>	<b>SS2: Distributed Co-operative Agents 11 Chair: R. Bowyer (DSTO Aust)</b>
	17	Comparison of distributed tracking algorithms <i>G W Ng, Y Rong</i>	16	Sensor registration in ECEF coordinates using the MLR algorithm <i>B Ristic, N Okello</i>	129	The ARSIS concept in image fusion: an answer to users needs <i>L Wald, R Thierry</i>	(21)	A Distributed Multi-Agent Architecture for Computer Security Situational Awareness <i>D Engelhardt, M Anderson</i>
	194	Comparison of sampling-based algorithms for multisensor distributed target tracking <i>T M Nguyen, V P Jilkov, X Rong Li</i>	158	Performance bounds for recursive sensor registration <i>N J Gordon, B Ristic, M Robinson</i>	196	Pixie-Level fusion of active/passive data for real time composite feature extraction and visualization <i>A Steinberg, R Pack</i>	(23)	Agent Behaviour and Capability Correlation Factors as Determinants for Fusion Action <i>R Bowyer</i>
	207	Saddlepoint approximation applied to fusion in multiple sensor and to detection in clutter <i>C Musso, E Jay, J P Ovarlez</i>	221	Sensor bias correction in simultaneous localization and mapping <i>L D L Perera, W S Wijesoma, S Challa, M D Adams</i>	128	Increasing the spatial resolution of gridded data by fusion with other data sets <i>L Wald, T Ranchin, M Lefevre, M Albuissou, J Remund</i>	(24)	Dynamic Agent Systems In the CoAX Binni 2002 Experiment <i>S Wark, A Zschorn, D Perugini, A Tate, P Beautelement, J Bradshaw, N Suri</i>
	139	A new data association algorithm for multi-target tracking in a cluttered environment <i>Y M Chen</i>	151	Exact multisensor dynamic bias estimation with local tracks <i>X Lin, T Kirubakaran, Y Bar-Shalom</i>	7	Remote sensing image fusion for different spectral and spatial resolutions with bilinear resampling wavelet transform <i>Z Qianxiang, J Zhongliang, J Shizhong</i>	(96)	Grand Challenges of Information Fusion <i>D Lambert</i>
12:30 – 14:00		Lunch						

Oral Presentations for Tuesday 8 <sup>th</sup> July 2003 (Afternoon)								
		Ballroom 1		Ballroom 2		Marina 1		Marina 3
14:00 – 15:20	<b>Paper No</b>	<b>Multi-sensor Fusion 111</b> <b>Chair: M. Farooq</b> <b>(Royal Military College Canada)</b>	<b>Paper No</b>	<b>Fusion Applications 1</b> <b>Chair: G. Pulford</b> <b>(Thales Underworld Systems Aust)</b>	<b>Paper No</b>	<b>Image Fusion 11</b> <b>Chair: E Blasch (AFRL / SNA, USA)</b>	<b>Paper No</b>	<b>SS2: Distributed Co-operative Agents 111</b> <b>Chair: R. Bowyer (DSTO Aust)</b>
	204	Optimal linear estimation fusion-Part VI:Sensor data compression <i>K Zhang, X Rong Li, P Zhang, H Li</i>	37	The joint multi-sensor mine-signatures project:an opportunity for testing data fusion algorithms! <i>P Verlinde, A Lewis</i>	163	Vision data fusion for target tracking <i>J Zhen, A Balasuriya, S Challa</i>	(97)	Issues in Modelling Sensor Fusion in Agent Based Simulation or Air Operations <i>C Heinze, M Papsmieson, S Goss</i>
	212	Data incest removal in a survivable estimation fusion architecture <i>S P McLaughlin, R.J Evans, V Krishnamurthy</i>	220	Road curb tracking in an urban environment <i>W S Wijesoma, K R S Kodagoda, A P Balasuriya, S Challa</i>	156	Robust registration in two heterogeneous sequence images on moving objects <i>J W Joo, Jeung Won Choi, Dong Lae Cho</i>	(98)	Novel Approaches in Modelling Dynamics of Networked Surveillance Environment <i>P J Dickinson, M Kraetzl</i>
	141	A BP based VSIMM-2D track-to-measurement association approach <i>H Jia- Zhou, W Chuan-Li, Chen Shi-Fu</i>	47	Sensor based missile guidance <i>P N Pathirana, A V Savkin</i>	11	Occlusion-adaptive fusion for gait-based motion recognition <i>S L Dockstader</i>	(100)	Cognitive modelling and constrained reasoning for intelligent agents <i>M Watson, F Lui</i>
			112	Laserscanner data fusion for 360 degree environment observation around a vehicle <i>Fuerstenberg, Kay Ch, Dittmer, Martin;Willhoeft, Volker</i>	80	A fast visual tracking algorithm based on circle pixels matching <i>Z Hou, C Han, L Zheng</i>	(110)	Distributed Learning of Information Fusion: A Multi-agent Approach <i>V Gorodetsky, O Karsaeyv, V Samoilov</i>
15:20 – 15:50	<b>Tea Break</b>							
15:50 – 17:30	<b>Paper No</b>	<b>Multi-sensor Fusion 1V</b> <b>Chair: K. Kastella (Veridian USA)</b>	<b>Paper No</b>	<b>Fusion Applications 11</b> <b>Chair: E. Sviestins (SAAB Sweden)</b>	<b>Paper No</b>	<b>Advanced Fusion</b> <b>Chair: X. Wang (University of Melbourne Aust)</b>	<b>Paper No</b>	<b>SS9: Ground Target Tracking</b> <b>Chair: M. Mallick (Orincon, USA)</b>
	171	Target tracking and data fusion using multiple adaptive foveal sensors <i>Y Xue, D Morrell</i>	166	Rapid analysis and information fusion for quantification of intramuscular fat content <i>O Tomic, Jens Petter Wold</i>	178	Sensor scheduling using ant colony optimization <i>D Schrage, P G Gonsalves</i>	(66)	Performance Bounds for GMTI Tracking <i>M Hernandez</i>
	159	Track fusion in over-the-horizon radar networks <i>M G Rutten, N J Gordon, D J Percival</i>	165	Data fusion of combined impulse-echo methods for non-destructive testing of concrete structures <i>C Kohl, C Maierhofer, J Wostmann, M Krause, H Wiggenhauser</i>	98	Fusion of audio and video information for detecting speech events <i>F Asano, Y Motomura, H Asoh, T Yoshimura, N Ichimura, S Nakamura</i>	(76)	Constrained Tracking Filters for A-SMGCS <i>A Farina, I Ferranti, G Golino</i>
	155	Fusion of active phased array radars within a quick reaction time using multidimensional data association <i>F Opitz</i>	185	Mapping heterogeneous information to facilitate fusion for improved lifing estimates <i>K Goebel, M Dometita, C Graichen</i>	219	Adaptive time-frequency data fusion for speech enhancement <i>G Shi, P Aarabi, N Lazic</i>	(67)	Comparison of the KF/EKF and Particle Filter Based Out-of-Sequence Measurement Filtering Algorithms <i>M Mallick, A Marrs</i>
	117	Data fusion of FLIR and LADAR in autonomous weapons systems <i>G Powell, D Marshall, R Milliken, K Markham</i>	102	Power transformer on-line detection and fault diagnosis system based on neural network and embedded internet <i>S Wei, G Wang, M Guan, Y Su, H Zhao</i>	86	A new approach to grid adaption of AGIMM algorithm <i>Q Xiangdong, W Baoshu</i>		

Oral Presentation for Wednesday 9th July 2003 (Morning)								
08:00 – 09:00		Plenary Talk: Topic:						
		Ballroom 1		Ballroom 2		Marina 1		Marina 3
09:20 – 10:40	<b>Paper No</b>	<b>SS5: Distributed Tracking and Fusion I Chair: Chee – Chong (Booz Allen USA)</b>	<b>Paper No</b>	<b>Belief Function Theory Chair: S. Mori (IET, USA)</b>	<b>Paper No</b>	<b>SS6 Image Fusion I Chair: A. Waxman (Alphatech USA)</b>	<b>Paper No</b>	<b>SS7 Fusion Ontology I Chair: M Kokar, (Northeastern University USA)</b>
	(34)	A Novel Maneuvering Target Model and Adaptive Tracking Algorithm <i>C-Y Chong, BA Hamilton, S Kumar, F Zhao, A Palo</i>	124	Uncertainties in TCSP-evidential reasoning approach <i>S D Bhavani, A K Pujari, Abdul Satter</i>	(77)	Overview of Sensor Fusion Research at CECOM NVESD & Recent Results on Vehicle Detection Using Multiple Sensor Nodes <i>P Perconti</i>	(31)	Ontology-based Approach for Information Fusion <i>A C Boury-Brisset</i>
	(39)	Real-Time Cooperative Multitarget Tracking by Communicating Active Vision Agents <i>N Ukita, T Matsuyama</i>	190	Conditional inference in subjective logic <i>A Josang, T Grandison</i>	(80)	Multispectral, Hyperspectral, and Three-Dimensional Imaging Research at the U. S. Army Research Laboratory <i>A Goldberg</i>	(32)	An Ontology Controlled Data Fusion Process for a Query Language <i>E Jungert, T Horney, M Folkesson</i>
	(40)	Sensor/Data Fusion Based on Value of Information <i>F Zao, M Chu, S Mitter</i>	173	Information properties as a means to define decision fusion methodologies in non-benign environments <i>T Schuck, M Friesel, B Hunter</i>	(78)	Information Fusion for Situational Awareness <i>J Salemo</i>	(93)	Semantic peer to peer discovery and Fusion <i>K Sycara, M Lewis, M Paolucci</i>
	(41)	Optimal Linear Track Fusion <i>X R Li, C Han</i>	83	Parametric estimation of dempster-shafer belief functions <i>M Zribi, M Benjelloun</i>	(79)	User Performance Improvement via Multimodal Interface Fusion Augmentation <i>E Blasch, S Plano</i>	(36)	A Generic Core Ontology for Situation Awareness <i>C J Matheus, M M Kokar, K Baclawski</i>
10:40 – 11:10	Tea Break							
11:10 – 12:30	<b>Paper No</b>	<b>SS5: Distributed Tracking and Fusion II Chair: Chee – Chong (Booz Allen USA)</b>	<b>Paper No</b>	<b>Sensor Management and Control I Chair: M. Hernandez (QinetiQ UK)</b>	<b>Paper No</b>	<b>SS6 Image Fusion II Chair: A. Waxman (Alphatech USA)</b>	<b>Paper No</b>	<b>SS7: Fusion Ontology II Chair: M Kokar (Northeastern University USA)</b>
	(42)	Robust Guaranteed Cost Filtering for a Class of Nonlinear Systems <i>S Mori, C Y Chong</i>	167	Operator control of shared resources in sensor networks <i>D Stromberg, F Lantz</i>	(81)	Image Fusion & Mining Tools for a COTS Environment <i>A Waxman, D Fay, P Ivey, N Bomberger</i>	(35)	Ontological issues in higher levels of information fusion: User refinement of the fusion process <i>E. P. Blasch, S Plano</i>
	(44)	Management and Control in Decentralised Sensing Networks <i>H Durrant-Whyte, B Grocholsky, A Makarenko</i>	175	A game theoretic model for management of mobile sensors <i>L Ronnie M Johansson, N Xiong, H I Christensen</i>	(82)	Applying Daytime Colors to Multiband Nightvision Imagery <i>A Toet</i>	(37)	An Extensible-based, distributed information system architecture <i>B C Krikeles, A Chao, A E Lusignan, E M Starczewski</i>
	(45)	Fusion Performance Modeling for Distributed Tracking and Classification <i>K C Chang, M Liggins</i>	201	Detection of a target moving in a network <i>Jean-Pierre Le Cadre</i>	(102)	Concealed Weapon Detection Using Color Image Fusion <i>R Blum, Z Xue</i>	(38)	Ontologies for Information Fusion <i>D L McGuinness</i>
	(46)	A Probabilistic Nearest Neighbor Filter for m Validated Measurements <i>D Nicholson, J Uhlmann, S Julier</i>	177	Exposure of variable speed targets through a sensor field <i>T Clouqueur, P Ramanathan, K K Saluja</i>	(103)	User Issues Associated with Sensor Fusion and ATR <i>J Irvine</i>	(92)	On ontologies for high-level information fusion <i>C Nowak</i>
12:30 – 14:00	Lunch							

**Oral Presentation for Wednesday 9<sup>th</sup> July 2003 (Afternoon)**

		<b>Ballroom 1</b>		<b>Ballroom 2</b>		<b>Marina 1</b>		<b>Marina 3</b>
14:00 – 15:20	<b>Paper No</b>	<b>SS9 Distributed Tracking and Fusion III Chair: M. Mallick (Orincon, USA)</b>	<b>Paper No</b>	<b>Sensor Management and Control II Chair: J-P Le Cadre (IRISA France)</b>	<b>Paper No</b>	<b>SS6 Image Fusion III Chair: A. Waxman (Alphatech USA)</b>	<b>Paper No</b>	<b>SS1: Distributed Detect. I Chairs: A. Tartakovsky (Univ. Southern California) &amp; Veeravalli (University of Illinois USA)</b>
	(72)	Target selection with communicating observers <i>D Salmond, M Rollason, I Gregory</i>	88	Performance bounds for angle-only filtering with application to sensor network management <i>P R Horridge, M L Hernandez</i>	(84)	Autonomous Image-to-Model Registration <i>A Chao, D Morgan</i>	(59)	Quickest Change Detection in Distributed Sensor Systems <i>A Tartakovsky, V Veeravalli</i>
	(75)	Optimal Update with Out-of-Sequence Measurements for Multi-sensor Multi-target Tracking <i>X R Li, K Zhang, H Chen, M Mallick</i>	58	A bayesian method for integrated multitarget tracking and sensor management <i>C Kreucher, K Kastella, A O Hero III</i>	(85)	Fusion of Multi-View Image Dynamics using Gaussian Mixtures <i>P Remagnino</i>	(65)	Energy-Efficient Detection in Sensor Networks <i>S Appadwedula, D L Jones, V Veeravalli</i>
	(73)	Group Tracking using Genetic Algorithms- <i>P J Shea, K Alexander, J Peterson</i>	142	On tracking performance constrained MFR parameter control <i>JH Zwaga, Y Boers, H Driessen</i>	(86)	Learn-While-Tracking, Feature Discovery, and Multi-View Fusion of HRR Range Profiles <i>R Ivey, A Waxman, D Fay, D Martin</i>	(68)	Fault-Tolerant Classification in Multisensor Networks Using Coding Theory <i>P Varshney, Tsang-Yi Wang, Y S Han</i>
	(71)	Sensor Resource Management for Situation Assessment- <i>J P Hill, K C Chang</i>	110	Optimal employment of space surveillance resources for maritime target tracking and re-acquisition <i>P E Berry, C Pontecorvo, D Fogg</i>	(88)	A System for Gaze-Contingent Image Analysis and Multi-Sensorial Image Display- <i>S Nikolov, I D Gilchrist, M G Jones, D R Bull, C N Canaganajah</i>	(69)	The Fusion of Parametric and Non-Parametric Hypothesis Tests <i>P Frank Singer</i>
15:20 – 15:50	<b>Tea Break</b>							
15:50 – 17:30	<b>Paper No</b>	<b>Multi-target Tracking Chair: T. Kirubarajan (McMaster University Canada)</b>	<b>Paper No</b>	<b>Decision Fusion Chair: D. Lambert (DSTO Aust)</b>	<b>Paper No</b>	<b>SS6 Image Fusion IV Chair: A. Waxman (Alphatech USA)</b>	<b>Paper No</b>	<b>SS1: Distributed Detect. II Chairs: A. Tartakovsky (Univ. Southern California) &amp; Veeravalli (University of Illinois USA)</b>
	172	Joint IMPDA Particle Filter <i>H A P Blom, E A Bloem</i>	187	Receiver operating characteristic curves and fusion of multiple classifiers <i>M E Oxley, K W Bauer</i>	(89)	Dual modality two stage direct volume rendering <i>M Jones, S G Nikolov</i>	(94)	Distributed Classification in a Multi-Source Environment <i>T Schuck, J B Hunter</i>
	218	Sequential monte carlo implementation of the PHD filter for multi-target tracking <i>Ba-ngu Vo, S Singh, A Doucet</i>	118	Utility-based sequential decision-making in evidential co-operative multi-agent systems <i>G Rogova, C Lollett, P Scott</i>	(90)	3D Nonrigid Registration and Multimodality Fusion for Image-Guided Neurosurgery <i>Verly, I Vigneron, C Martin, N Petitjean, R Guran, R Boman, P A Robe</i>	(95)	Contact-Sensitive State Estimation <i>A Stainberg</i>
	76	Multi-target particle filtering for the probability hypothesis density <i>H Sidenblad</i>	192	Use of genetic algorithms for optimizing a decision fusion framework <i>F Rahman, H Alam, M Fairhurst</i>	(91)	Advances in the Use of Neurophysiologically-Based Fusion for Visualization and Pattern Recognition of Medical Imagery <i>M Aguilar, J R New, E Hasanbelliu</i>	(99)	Data Versus Decision Fusion for Classification in Sensor Networks <i>A Sayeed, A D Costa</i>
	223	A multitarget tracking algorithm based on random sets <i>M R Morelande, S Challa</i>	145	Fuzzy logic resource manager: Evolving fuzzy decision tree structure that adapts in real-time <i>J F Smith III</i>	179	Industrial assessment of horticultural products' quality using image data fusion <i>B Moshiri, B Majidi (*)</i>	161	Decentralized detection: optimizing with Bayes or entropy-based criterion? <i>Pomorski</i>
<b>Conference Dinner</b>								

\* After Session SS6 Image Fusion IV: Demonstration of Neural Fusion Software by A. Waxman

**Oral Presentations for Thursday 10<sup>th</sup> July 2003 (Morning)**

08:00 – 09:00									
<b>Plenary Talk:</b>									
<b>Topic:</b>									
09:20 – 10:40		Ballroom 1		Ballroom 2		Marina 1		Marina 3	
Paper No	Target Tracking I Chair: R. Evans (University of Melbourne Aust)	Paper No	Image Processing Chair: B La Scala (University of Melbourne Aust)	Paper No	SS4: S & T A I Chairs: M. Oxenham & A Nguyen (DSTO Aust)	Paper No	SS3: PMHT Chairs: S. Davey (DSTO Aust) & T. Luginbuhl (NUWC, USA)		
132	132-Error Performance Bounds for Tracking a Manoeuvring Target <i>A Bessell, B Ristic, A Farina, X Wang, M S Arulampalam</i>	189	Parameter estimation in gibbs-markov image models <i>A El-Baz, A A Farag</i>	(8)	Architecture for Genetic Algorithm-Based Threat Assessment <i>P Gonzalves, J Burge</i>	(61)	Tracking of High Bearing-Rate Targets With the Maximum A-Posteriori Broadband Tracker <i>C Christou</i>		
197	Cramer-Rao lower bound for single target tracking accurate with coordinated turn maneuvers using range and bearing measurements <i>M Karan, R Lobbia</i>	150	Segmentation of range and reflectance images with an expert system <i>D Coquin, M Bohner</i>	(9)	Fusion tracking algorithm based on fuzzy stochastic decision <i>Shiqiang Hu, Zhongliang Jing, Jianxun Li</i>	(62)	Adding Power Spectra to PMHT <i>M Walsh, R Streit, M Graham</i>		
202	CRLB with $p_d < 1$ for bearings only fused tracks <i>A Farina, S Immediata, B Ristic, L Timmoneri</i>	195	A new approach for classification of multispectral data <i>R M Mohamed, A A Farag</i>	(10)	Description of a Rule-Based Model for Automatic Allocation of Airborne Assets <i>P H Cutler, T Nguyen</i>	(63)	The PMHT with Hysteresis <i>S Davey, D Gray</i>		
162	Tracking system performance assessment <i>S B Colegrove, B Cheung, S J Davey</i>	122	Automatic segmentation of moving objects by fusing multi-information <i>L Zheng, C Han, D Zuo, H Zhu</i>	(11)	Automating Cognitive Routines <i>D Lambert</i>	(64)	Sensor Scheduling with Active and Image-based Sensors for Manoeuvring Targets <i>V Krishnamurthy, M Karan</i>		
10:40 – 11:10									
<b>Tea Break</b>									
11:10 – 12:30									
Paper No	Target Tracking II Chair: T L Song (Hanyang University Korea)	Paper No	Signal Processing Chair: K W Lo (DSTO Aust)	Paper No	SS4: S & T A II Chairs: M. Oxenham & A Nguyen (DSTO Aust)	Paper No	SS8: PPN Reasoning for Information Fusion I Chairs: J. Dezert (ONERA France) & F Smarandache (Univ New Mexico USA)		
240	The Kalman-Levy filter and heavy-tailed models for tracking manoeuvring targets <i>N J Gordon, D J Percival, M Robinson</i>	148	Detection of harmonic signal with phase shift for single electron spin microscopy <i>H Chen, J M F Moura</i>	(12)	Threat Ranking of Air Targets Based on Spatio-Temporal Information <i>M Oxenham</i>	(47)	On the generation of hyper-powersets for the DSMT <i>J Dezert, F Smarandache</i>		
211	A set based approach to target tracking in clutter <i>F K Fletcher, D J Kershaw</i>	115	Adaptive signal analysis of immunological data <i>F J Theis, D Hartl, S Krauss-Etschmann, E W Lang</i>	(114)	Situation Awareness - A Commander's View <i>G A Thoms</i>	(28)	A Generalized Belief Fusion Algorithm <i>J Sudano</i>		
217	Linear joint integrated track splitting filter – <i>D Musicki, R Evans, B La Scala</i>	8	Robust speech separation using two-stage independent component analysis <i>P Aarabi, S Mavandadi</i>	206	Threat assessment using bayesian networks <i>N Okello, G Thoms</i>	(53)	Strategies for Combining Conflicting Dogmatic Beliefs <i>M Daniel, A Josang, P Vannoorenberghe</i>		
214	Cost function-based gaussian mixture reduction for target tracking <i>J L Williams, P S Maybeck</i>	94	Exploring alternative wavelet base selection techniques with application to high resolution radar classification <i>D E Waagen, M L Cassabaum, C Scott, H A Schmitt</i>	170	Determining possible avenues of approach using ANTS <i>P Svenson, H Sidenbladh</i>	(49)	Land cover change prediction with a new theory of plausible and paradoxical reasoning <i>S Corgne, L Hubert-Moy, J Dezert, G Mercier</i>		
12:30 – 14:00									
<b>Lunch</b>									

**Oral Presentations for Thursday 10<sup>th</sup> July 2003 (Afternoon)**

	<b>Ballroom 1</b>		<b>Ballroom 2</b>		<b>Marina 1</b>		<b>Marina 3</b>	
14:00 – 15:20		<b>Target Tracking III</b> Chair: D. Salmond (QinetiQ UK)	<b>Paper No</b>	<b>Advanced Sensor Fusion I</b> Chair: J. Sutcliffe (BAE Systems Aust)	<b>Paper No</b>	<b>S &amp; T A III</b> Chair: E. Bosse (DRDC Valcartier Canada)	<b>Paper No</b>	<b>SS8: PPN Reasoning for Information Fusion II</b> Chairs: J. Dezert (ONERA France) & F Smarandache (Univ New Mexico USA)
	198	Tracking separating targets with a monopulse radar: Idealized resolution <i>T L Ogle, W D Blair, G C Brown</i>	107	Metrics for level 2 fusion association S C <i>Stubberud, P J Shea, D Klamer</i>	186	Uncertainty in a situation analysis perspective <i>Anne-Laure Jousset, P Maupin, E Bosse</i>	(48)	Partial ordering of hyper-powersets and matrix representation of belief functions within DSMT <i>J Dezert, F Smarandache</i>
	133	Evaluation of IPDA type filters with a low elevation sea-surface target tracking <i>X Wang, D Musicki</i>	203	Heterogeneous multi-criteria combination with partial or full information <i>D Gruyer, C Royere, V Cherfaoui</i>	50	Hybrid model for intent estimation <i>K D Lee, J Llinas</i>	(29)	Equivalence Between Belief Theories and Naive Bayesian Fusion for Systems with Independent Evidential Data: Part I, The Theory <i>J Sudano</i>
	200	Distributed implementations of particle filters <i>A S Bashi, V P Jilkov, X Rong Li, H Chen</i>	135	Advanced sensor data fusion in MSDFLib <i>F Mulder, H Driessen, F Rulof, J Zwaga</i>	169	Evidential force aggregation <i>J Schubert</i>	(57)	A Novel Justification of the Disjunctive Combination Rule <i>H Sun, M Farooq</i>
	208	A kalman-particle kernel filter and its application to terrain navigation <i>Ding-tuan Pham, K Dahia, C Musso</i>	176	A categorical description of sensor fusion <i>S N Thorsen, M E Oxley</i>			(50)	Neutrosophic Information Fusion Applied to Financial Market <i>M Koshevisan</i>
15:20 – 15:50	<b>Tea Break</b>							
15:50 – 17:30	<b>Paper No</b>	<b>Target Tracking IV</b> Chair: X R Li (University of New Orleans, USA)	<b>Paper No</b>	<b>Advanced Sensor fusion II</b> Chair: D. Musicki (University of Melbourne) Aust	<b>Paper No</b>	<b>Fusion Architectures</b> Chair: E. Shahbazian (Lockeed Martin, Canada)	<b>Paper No</b>	<b>SS8: PPN Reasoning for Information Fusion III</b> Chairs: J. Dezert (ONERA France) & F Smarandache (University of New Mexico USA)
	134	Markov chain analysis of the sequential probability ratio test for automatic track maintenance <i>G W Pulford</i>	174	On sensor fusion between a pair of heterogeneous robots <i>Lars A A Andersson and J Nygard</i>	168	Building an information fusion demonstrator <i>P Svensson, P Horling</i>	(55)	Estimation of Target Behavior Tendencies using Dezert-Smarandache Theory <i>A Tchamova</i>
	213	Single Target Tracking in Clutter: Performance Comparison between PDA and VDA <i>A Gad, M Farooq</i>	38	Ontologies for Information Fusion <i>K V Ramachandra, R Rajagopal, B Mohan</i>	95	Wide area integrated maritime surveillance: An updated architecture with data fusion engine <i>Z Ding, G Kannappan, K Benameur, M Farooq</i>	(30)	Equivalence Between Belief Theories and Naive Bayesian Fusion for Systems with Independent Evidential Data: Part II, The Example <i>J Sudano</i>
	46	Spurious Data Rejection in Distributed Fusion Systems <i>T L Song, S J Shin</i>	184	Robust information fusion using variable-bandwidth density estimation <i>D Comaniciu</i>	183	Real-time DBMS for data fusion <i>D McDaniel, G Schaefer</i>	(56)	Optimal Plant Layout Design based on MASS Algorithm <i>M Koshevisan, S Bhattacharya</i>
	29	Equivalence Between Belief Theories and Naïve Bayesian Fusion for Systems with Independent Evidential Data: Part I, The Theory <i>H Zhu, Chongzhuo Han, Hong Han Dongguang, Zuo-Rong Wen</i>	48	An adaptive kalman filter with dynamic rescaling of process noise <i>Z Duan, C Han, H Dang</i>	154	Data fusion for the new German F124 frigate3 concept and architecture <i>W Henrich, T Kausch, F Opitz</i>	(58)	On the Blackman's Data Association problem <i>J Dezert, F Smarandache</i>

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- 23 A new data association approach for automotive radar tracking - H Dang, C Han, Z Duan
- 25 Fuzzy JPDAF approach for vehicle tracking in road situation – H Dang, C Han, Z Duan
- 26 Tracking of maneuvering target in glint noise environment - Z Dongguang, H Chongzhao, B Shutan, Zhenglin, Z Hongyan
- 28 The algorithm and simulations for the asynchronous track association – H Zhu, C Han, H Han, D Zuo, R Wen
- 30 30 – Hong
- 31 Tracking Maneuvering target based on neural fuzzy inference network – H Hong, H Chong-Zhao, Z Hong-yan, W Rong
- 33 A new ICA method based on a lattice of the observation space - MR Alvarez, F Rojas, CG Puntonet, F Theis, EW Lang
- 68 Multi-target tracking based on multi-sensor information fusion with fuzzy inference - H Hong, H Chong-Zhao, Z Hogn-yan, Wen Rong
- 79 A target tracking system based on radar and image fusion - Z Hou, C Han
- 97 Continuous finite-time control for robotic manipulators with terminal sliding modes -S Yu, X Yu
- 99 Text extraction system - K B R Choudhuri, S Datta, A Ganguli
- 109 A table look-up scheme for fuzzy logic based model identification applied to time serie prediction - Shahida Khatoon, Ibraheem, Moinudin
- 116 Somica and geometric ICA - F J Theis, C G Puntonet, E W Lang
- 121 A general data fusion architecture - H S Carvalho, W B Heinzelman, A L Murphy, C J N Coelho
- 144 Minimizing cost of redundant sensor-systems with an artificial immune algorithm - QM Jonathan Wu, G Yin
- 152 Multi-temporal SAR image analysis by a 3D graphic tool-based fuzzy fusion –L Valet, F Bujor, G Mauris, E Trouve, Ph Bolon
- 191 A pair-wise decision fusion framework:recognition of human faces - H Alam, F Rahman, Y Tarnikova
- 231 An image fusion approach based on discrete wavelet frame – H Wang, Jianxun Li, Zhongliang Jing