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Table of Contents

Wednesday, July 6	iii
Thursday, July 7	xix
Friday, July 8	xxxiii
Quick Facts about Fusion 2016, July 5-8, Heidelberg, Germany	xliv
Schedule of Events	xlv
Welcome to FUSION 2016	xlvi
Sponsors	xlviii
Organizing Committee	I
Technical Program Committee	II
Plenary Talks	III
Tutorials	IV
Technical Program Overview	V
Social Program	VI

Wednesday, July 6

10:30 - 12:10

Nonlinear Filtering I

Room A

Session Chair: Simon Godsill (University of Cambridge, United Kingdom)

NONLINEAR FILTER DESIGN USING FOKKER-PLANCK PROPAGATOR

IN KRONECKER TENSOR FORMAT	1
----------------------------------	---

Bruno Demissie (Fraunhofer FKIE, Germany)

Muhammad Altamash Khan (Fraunhofer FKIE, Germany)

Felix Govaers (Fraunhofer FKIE, Germany)

A ROBUST STUDENT'S T BASED CUBATURE FILTER

9

Yulong Huang (Harbin Engineering University, P.R. China)

Yonggang Zhang (Harbin Engineering University, P.R. China)

Ning Li (Harbin Engineering University, P.R. China)

Syed Mohsen Naqvi (Newcastle University, United Kingdom)

Jonathon Chambers (Newcastle University, United Kingdom)

DATA-DRIVEN BALLISTIC COEFFICIENT LEARNING FOR FUTURE STATE PREDICTION OF HIGH-SPEED

VEHICLES	17
----------------	----

Kyungwoo Song (KAIST, Korea)

Sang-Hyeon Kim (KAIST, Korea)

Jinhyung Tak (KAIST, Korea)

Han-Lim Choi (KAIST, Korea)

Il-Chul Moon (KAIST, Korea)

LMMSE FILTERING WITH OUT-OF-SEQUENCE AND UNCERTAIN OBSERVATIONS

25

Daniel Sigalov (Technion - Israel Institute of Technology, Israel)

Yaakov Oshman (Technion - Israel Institute of Technology, Israel)

A NOVEL MULTIPLE-MODEL TREATMENT FOR MANEUVERING TARGET TRACKING

31

Wei Wang (Sichuan University, P.R. China)

Jie Zhou (Sichuan University, P.R. China)

Xiaomei Qu (Southwest University for Nationalities, P.R. China)

10:30 - 12:10

SS14: Sensor, Resources, and Process Management for Information Fusion Systems

Room B

Session Chair: Christof Chlebek (Intelligent Sensor-Actuator Systems Laboratory & Karlsruhe Institute of Technology (KIT), Germany)

TRAJECTORY OPTIMIZATION FOR MULTI-PLATFORM BEARING-ONLY TRACKING WITH GHOSTS.....39

Folker Hoffmann (Fraunhofer FKIE, Germany)

Alexander Charlish (Fraunhofer FKIE, Germany)

Wolfgang Koch (Fraunhofer FKIE, Germany)

JOINT NODE SELECTION AND POWER ALLOCATION FOR MULTITARGET

TRACKING IN DECENTRALIZED RADAR NETWORKS45

Mingchi Xie (University of Electronic Science and Technology of China, P.R. China)

Wei Yi (University of Electronic Science and Technology of China, P.R. China)

Lingjiang Kong (University of Electronic Science and Technology of China, P.R. China)

APPROACHES FOR SOLVING M-BEST 3-DIMENSIONAL DYNAMIC

SCHEDULING PROBLEMS FOR LARGE M53

Lingyi Zhang (University of Connecticut, USA)

David Sidoti (University of Connecticut, USA)

Krishna R. Pattipati (University of Connecticut, USA)

David Castañón (Boston University, USA)

**HEPHAESTUS: A MULTISENSOR DATA FUSION ALGORITHM FOR
MULTIPLE APPLICATIONS ON WIRELESS SENSOR NETWORKS**

59

Gabriel Aquino (Universidade Federal do Rio de Janeiro, Brazil)

Luci Pirmez (Universidade Federal do Rio de Janeiro, Brazil)

Claudio M. de Farias (Universidade Federal do Rio de Janeiro, Brazil)

Flávia C. Delicato (Universidade Federal do Rio de Janeiro, Brazil)

Paulo F. Pires (Universidade Federal do Rio de Janeiro, Brazil)

PROGRESSIVE CLOSED-LOOP CHANCE-CONSTRAINED CONTROL.....67

Gerhard Kurz (Karlsruhe Institute of Technology (KIT), Germany)

Maxim Dolgov (Karlsruhe Institute of Technology (KIT), Germany)

Uwe D. Hanebeck (Karlsruhe Institute of Technology (KIT), Germany)

10:30 - 12:10

Machine Learning I

Room C

Session Chair: Christian Musso (ONERA, France)

**COMPARISON OF DIFFERENT INFORMATION FUSION METHODS USING ENSEMBLE SELECTION
CONSIDERING BENCHMARK DATA.....73**

73

Sandra Rothe (University of Duisburg-Essen, Germany)

Dirk Söffker (University Duisburg-Essen, Germany)

HYBRID AUTOENCODER AND CLASSIFIER FOR LABEL-DEFICIENT

SEMI-SUPERVISED LEARNING: CASE STUDY79

Rastin Rastgoufard (University of New Orleans, USA)

AbdulRahman Alsamman (University of New Orleans, USA)

GPLVM AND LAVA FLOOR DISTANCE FOR LABEL-DEFICIENT

SEMI-SUPERVISED LEARNING: CASE STUDY84

84

Rastin Rastgoufard (University of New Orleans, USA)

AbdulRahman Alsamman (University of New Orleans, USA)

OPEN DATA ANALYSIS FOR ENVIRONMENTAL SCANNING IN SECURITY-ORIENTED STRATEGIC ANALYSIS	91
J. Gomez-Romero (<i>Universidad de Granada, Spain</i>)	
M.D. Ruiz (<i>Universidad de Granada, Spain</i>)	
M.J. Martin-Bautista (<i>Universidad de Granada, Spain</i>)	
PREDICTING THE CO-EVOLUTION OF EVENT AND KNOWLEDGE GRAPHS	98
Cristobal Esteban (<i>Siemens AG, Germany</i>)	
Volker Tresp (<i>Siemens AG, Germany</i>)	
Yinchong Yang (<i>Siemens AG, Germany</i>)	
Stephan Baier (<i>Ludwig Maximilian University, Germany</i>)	
Denis Krompaß (<i>Siemens AG, Germany</i>)	
10:30 - 12:10	
SS22: Situational Understanding Through Equivocal Sources	
Room D	
Session Chair: Geeth Ranmal de Mel (<i>IBM Research, United Kingdom</i>)	
CONSTRUCTING BAYESIAN NETWORKS BY HARVESTING KNOWLEDGE FROM ONLINE RESOURCES.....	106
Zhibo Xiao (<i>Nanyang Technological University, Singapore</i>)	
Tharini Nayanika De Silva (<i>Nanyang Technological University, Singapore</i>)	
Chen Wei (<i>Nanyang Technological University, Singapore</i>)	
Kezhi Mao (<i>Nanyang Technological University, Singapore</i>)	
Gee-Wah Ng (<i>DSO National Laboratories, Singapore</i>)	
ADAPTIVE MULTIMODAL FUSION WITH WEB RESOURCES FOR SCENE CLASSIFICATION	114
Dongzhe Wang (<i>Nanyang Technological University, Singapore</i>)	
Kezhi Mao (<i>Nanyang Technological University, Singapore</i>)	
Gee-Wah Ng (<i>DSO National Laboratories, Singapore</i>)	
Tien Pham (<i>US Army Research Lab, USA</i>)	
TOPICS AND RELATIONSHIP DISCOVERY FROM UNSTRUCTURED EQUIVOCAL SOURCES FOR SITUATION ASSESSMENT	122
Subrata Das (<i>Machine Analytics, USA</i>)	
CAN INSTAGRAM POSTS HELP CHARACTERIZE URBAN MICRO-EVENTS?.....	130
Kasthuri Jayarajah (<i>Singapore Management University, Singapore</i>)	
Archana Misra (<i>Singapore Management University, Singapore</i>)	
SOURCE BEHAVIOR DISCOVERY FOR FUSION OF SUBJECTIVE OPINIONS	138
Murat Şensoy (<i>Ozyegin University, Turkey</i>)	
Lance Kaplan (<i>US Army Research Lab, USA</i>)	
Geeth de Mel (<i>IBM T. J. Watson Research Center, USA</i>)	
Taha Gunes (<i>Ozyegin University, Turkey</i>)	

10:30 - 12:10

SS7: Space Object Detection, Tracking, Identification, and Classification

Room E

Session Chairs: Kyle DeMars (Missouri University of Science and Technology, USA)
Brandon Jones (The University of Texas at Austin, USA)

THE SPACE OBJECT ONTOLOGY 146

Alexander P. Cox (CUBRC, USA)
Christopher K. Nebelecky (CUBRC, USA)
Ronald Rudnicki (CUBRC, USA)
William A. Tagliaferri (CUBRC, USA)
John L. Crassidis (University at Buffalo, USA)
Barry Smith (University at Buffalo, USA)

MULTI-OBJECT TRACKING WITH MULTIPLE BIRTH, DEATH, AND SPAWN SCENARIOS USING A RANDOMIZED HYPOTHESIS GENERATION TECHNIQUE (RFISST) 154

W. Faber (Texas A&M University, USA)
S. Chakravorty (Texas A&M University, USA)
Islam I. Hussein (Applied Defense Solutions, USA)

**MODELING BIRTH IN A SPACE-OBJECT CPHD FILTER
USING THE PROBABILISTIC ADMISSIBLE REGION 162**

Brandon A. Jones (The University of Texas at Austin, USA)

**CONSIDERING UNCERTAIN SYSTEM PARAMETERS
IN MULTITARGET SPACE SURVEILLANCE TRACKING 170**

James S. McCabe (Missouri University of Science and Technology, USA)
Kyle J. DeMars (Missouri University of Science and Technology, USA)

ANTI-SHIP MISSILE TARGET TRACKING BASED ON GUIDANCE LAW ESTIMATION 178

Gaoru Xue (Northwestern Polytechnical University, P.R. China)
Xiaoxu Wang (Northwestern Polytechnical University, P.R. China)
Wenchao Zhan (Northwestern Polytechnical University, P.R. China)
Yan Liang (Northwestern Polytechnical University, P.R. China)
Chunhui Zhao (Northwestern Polytechnical University, P.R. China)

10:30 - 12:10

Performance Evaluation

Room F

Session Chair: Jean Dezert (Onera, France)

**PERFORMANCE EVALUATION OF MULTI-TARGET TRACKING
WITHOUT KNOWING GROUND TRUTH 185**

Le Zhang (Xi'an Jiaotong University, P.R. China)
Jian Lan (Xi'an Jiaotong University, P.R. China)
X. Rong Li (University of New Orleans, USA)

A FUSED SCORE FOR RANKING AND EVALUATION USING MULTIPLE PERFORMANCE METRICS 193

Le Zhang (Xi'an Jiaotong University, P.R. China)
Jian Lan (Xi'an Jiaotong University, P.R. China)
X. Rong Li (University of New Orleans, USA)

MULTITARGET TRACKING PERFORMANCE BASED ON THE QUALITY ASSESSMENT OF DATA ASSOCIATION.....	201
Jean Dezert (ONERA, France)	
Albena Tchamova (Bulgarian Acad. of Sci., Bulgaria)	
Pavlina Konstantinova (European Polytechnical University, Bulgaria)	
COMPARISON OF SPACE LAUNCH VEHICLE TRACKING USING DIFFERENT TYPES OF MULTIPLE MODELS.....	209
Haryong Song (Korea Aerospace Research Institute (KARI), Korea)	
Yoosoo Han (Korea Aerospace Research Institute (KARI), Korea)	
10:30 - 12:10	
Target Modeling	
Room G	
Session Chair: Branko Ristic (RMIT University, Australia)	
THE MIXED ORNSTEIN-UHLENBECK PROCESS AND CONTEXT EXPLOITATION IN MULTI-TARGET TRACKING	217
Stefano Coraluppi (Systems & Technology Research, USA)	
Craig Carthel (Systems & Technology Research, USA)	
Paolo Braca (NATO Centre for Maritime Research and Experimentation, Italy)	
Leonardo Maria Millefiori (NATO Centre for Maritime Research and Experimentation, Italy)	
A KINEMATIC MODEL OF ROUTE-BASED TARGET TRACKING: DIRECT DISCRETE-TIME FORM	225
Linfeng Xu (Northwestern Polytechnical University, P.R. China)	
Yan Liang (Northwestern Polytechnical University, P.R. China)	
Quan Pan (Northwestern Polytechnical University, P.R. China)	
Zhansheng Duan (Xi'an Jiaotong University, P.R. China)	
Gongjian Zhou (Harbin Institute of Technology, P.R. China)	
LONG-TERM VESSEL KINEMATICS PREDICTION EXPLOITING MEAN-REVERTING PROCESSES	232
Leonardo M. Millefiori (NATO STO CMRE, Italy)	
Paolo Braca (NATO STO CMRE, Italy)	
Karna Bryan (NATO STO CMRE, Italy)	
Peter Willett (University of Connecticut, USA)	
COMPATIBILITY AND MODELING OF CONSTRAINED DYNAMIC SYSTEMS.....	240
X. Rong Li (University of New Orleans, USA)	
10:30 - 12:10	
Decision Support	
Room H	
Session Chair: Galina L. Rogova (University at Buffalo, USA)	
ROOT-CAUSE LOCALIZATION USING RESTRICTED BOLTZMANN MACHINES.....	248
H. Joe Steinhauer (University of Skövde, Sweden)	
Alexander Karlsson (University of Skövde, Sweden)	
Gunnar Mathiason (University of Skövde, Sweden)	
Tove Helldin (University of Skövde, Sweden)	
IMPROVED MULTI-CRITERIA DISTRIBUTION NETWORK RECONFIGURATION WITH INFORMATION FUSION	256
Dario Masucci (University of "Roma TRE", Italy)	
Chiara Foglietta (University of "Roma TRE", Italy)	
Cosimo Palazzo (University of "Roma TRE", Italy)	
Stefano Panzieri (University of "Roma TRE", Italy)	

USING A BAYESIAN MODEL FOR CONFIDENCE TO MAKE DECISIONS THAT CONSIDER EPISTEMIC REGRET.....	264
<i>Ross Anderson (University of Liverpool, United Kingdom)</i>	
<i>Nick Hare (Aleph Insights, United Kingdom)</i>	
<i>Simon Maskell (University of Liverpool, United Kingdom)</i>	
DEFENSE STRATEGIES FOR INFRASTRUCTURES WITH MULTIPLE SYSTEMS OF COMPONENTS	270
<i>Nageswara S. V. Rao (Oak Ridge National Laboratory, USA)</i>	
<i>Chris Y. T. Ma (Advanced Digital Sciences Center, Hong Kong)</i>	
<i>Kjell Hausken (University of Stavanger, Norway)</i>	
<i>Fei He (Texas A&M University, USA)</i>	
<i>Jun Zhuang (State University of New York at Buffalo, USA)</i>	
BAYESIAN DATA FUSION FOR PIPELINE LEAK DETECTION	278
<i>Marco Guerriero (GE Global Research Center, USA)</i>	
<i>Fred Wheeler (GE Global Research Center, USA)</i>	
<i>Glen Koste (GE Global Research Center, USA)</i>	
<i>Sachin Dekate (GE Global Research Center, USA)</i>	
<i>Niloy Choudhury (GE Global Research Center, USA)</i>	
13:10 - 14:50	
Nonlinear Filtering II	
Room A	
Session Chair: Fredrik Gustafsson (Linkopings universitet, Sweden)	
A COMPARISON OF ITERATIVELY REWEIGHTED LEAST SQUARES AND KALMAN FILTER WITH EM IN MEASUREMENT ERROR COVARIANCE ESTIMATION.....	286
<i>Yanbo Yang (Northwestern Polytechnical University, P.R. China)</i>	
<i>Tim Brown (University of Melbourne, Australia)</i>	
<i>Bill Moran (RMIT University, Australia)</i>	
<i>Xuezhi Wang (RMIT University, Australia)</i>	
<i>Quan Pan (Northwestern Polytechnical University, P.R. China)</i>	
<i>Yuemei Qin (Northwestern Polytechnical University, P.R. China)</i>	
STATE ESTIMATION WITH DESTINATION CONSTRAINTS.....	292
<i>Gongjian Zhou (Harbin Institute of Technology, P.R. China)</i>	
<i>Keyi Li (Harbin Institute of Technology, P.R. China)</i>	
GAUSSIAN LIKELIHOOD BASED BERNOULLI PARTICLE FILTER FOR NON-UNIFORMLY QUANTIZED INTERVAL MEASUREMENT	298
<i>Xiaoxue Feng (Beijing Institute of Technology, P.R. China)</i>	
<i>Feng Pan (Beijing Institute of Technology, P.R. China)</i>	
<i>Qi Gao (Beijing Institute of Technology, P.R. China)</i>	
<i>Weixing Li (Beijing Institute of Technology, P.R. China)</i>	
BEARINGS-ONLY LOCALIZATION USING DIRECTION COSINES	304
<i>David Frederic Crouse (Naval Research Laboratory, USA)</i>	
AN END-POINT-CONSTRAINED EXTENDED KALMAN FILTER FOR TRACKING MANEUVERING NEAR-RADIAL INBOUND TARGETS	312
<i>Anton J. Haug (The Johns Hopkins University Applied Physics Laboratory, USA)</i>	
<i>Kevin R. Ford (The Johns Hopkins University Applied Physics Laboratory, USA)</i>	

13:10 - 14:50

SS14: Sensor, Resources, and Process Management for Information Fusion Systems (Continued)

Room B

Session Chair: Fotios Katsilieris (Fraunhofer FKIE, Germany)

TRACKING PARAMETER CONTROL IN MULTIFUNCTION RADAR NETWORK

INCORPORATING INFORMATION SHARING.....319

H. Sherwani (University College London, United Kingdom)

H.D. Griffiths (University College London, United Kingdom)

ADAPTIVE MAXENT MODELING OF DISTRIBUTED DECISION FUSION WITHOUT

KNOWLEDGE OF PRIOR PROBABILITIES OF LOCAL DECISIONS327

Ivan Kadar (Interlink System Sciences Inc., USA)

Kenneth Hintz (George Mason University, USA)

ON AUCTION DESIGN FOR CROWD SENSING334

Kewei Chen (University of Notre Dame, USA)

Vijay Gupta (University of Notre Dame, USA)

Yih-Fang Huang (University of Notre Dame, USA)

IMPLICIT COLLABORATION OF INTELLIGENT AGENTS THROUGH SHARED GOALS340

Kenneth Hintz (George Mason University, USA)

Ivan Kadar (Interlink System Sciences Inc., USA)

**FUSION ROUTINE INDEPENDENT IMPLEMENTATION OF ADVANCED DRIVER
ASSISTANCE SYSTEMS WITH POLYGONAL ENVIRONMENT MODELS.....347**

Tim Kubertschak (AUDI AG, Germany)

Mirko Maehlisch (AUDI AG, Germany)

Hans-Joachim Wuensche (Universität der Bundeswehr München, Germany)

13:10 - 14:50

Machine Learning II

Room C

Session Chair: Christian Musso (ONERA, France)

DIMENSIONALITY REDUCTION FOR WHOLE-BODY HUMAN MOTION RECOGNITION355

Christian Mandery (Karlsruhe Institute of Technology (KIT), Germany)

Matthias Plappert (Karlsruhe Institute of Technology (KIT), Germany)

Júlia Borràs (Karlsruhe Institute of Technology (KIT), Germany)

Tamim Asfour (Karlsruhe Institute of Technology (KIT), Germany)

CLASSIFIER FUSION BASED ON CAUTIOUS DISCOUNTING OF BELIEFS363

Zhunga Liu (Northwestern Polytechnical University, P.R. China)

Quan Pan (Northwestern Polytechnical University, P.R. China)

Jean Dezert (ONERA – The French Aerospace Lab, France)

ACTIVITY RECOGNITION BASED ON INERTIAL SENSORS FOR AMBIENT ASSISTED LIVING371

Kadian Davis (Eindhoven University of Technology, The Netherlands)

Evans Owusu (Independent Researcher, The Netherlands)

Vahid Bastani (University of Genova, Italy)

Lucio Marcenaro (University of Genova, Italy)

Jun Hu (Eindhoven University of Technology, The Netherlands)

Carlo Regazzoni (University of Genoa, Italy)

Loe Feijs (Eindhoven University of Technology, The Netherlands)

IMPROVED PEDESTRIAN DEAD RECKONING POSITIONING WITH GAIT PARAMETER LEARNING	379
Parinaz Kasebzadeh (<i>Linköping University, Sweden</i>)	
Carsten Fritzsche (<i>Linköping University, Sweden</i>)	
Gustaf Hendeby (<i>Linköping University, Sweden</i>)	
Fredrik Gunnarsson (<i>Ericsson Research, Sweden</i>)	
Fredrik Gustafsson (<i>Linköping University, Sweden</i>)	
INTEGRATED FEATURE PREPROCESSING FOR CLASSIFICATION BASED ON NEURAL INCREMENTAL ATTRIBUTE LEARNING	386
Ting Wang (<i>Tsinghua University, P.R. China</i>)	
Wei Zhou (<i>Tsinghua University, P.R. China</i>)	
Xiaoyan Zhu (<i>Tsinghua University, P.R. China</i>)	
Fangzhou Liu (<i>University of Liverpool, United Kingdom</i>)	
Sheng-Uei Guan (<i>Xian Jiatong-Liverpool University, P.R. China</i>)	
13:10 - 14:50	
Data Association I	
Room D	
Session Chair: Murat Efe (<i>Ankara University, Turkey</i>)	
NEW GRAPH-BASED AND MCMC APPROACHES TO MULTI-INT SURVEILLANCE	394
Stefano Coraluppi (<i>Systems & Technology Research, USA</i>)	
Craig Carthel (<i>Systems & Technology Research, USA</i>)	
William Kremer (<i>Systems & Technology Research, USA</i>)	
Alan Willsky (<i>Systems & Technology Research, USA</i>)	
ON PATH COVER PROBLEMS WITH POSITIVE AND NEGATIVE CONSTRAINTS FOR GRAPH-BASED MULTITARGET TRACKING	402
Lingji Chen (<i>BAE Systems, USA</i>)	
Ravi Ravichandran (<i>BAE Systems, USA</i>)	
ADAPTIVE SEMI-GREEDY SEARCH FOR MULTIDIMENSIONAL TRACK ASSIGNMENT	409
Samuel A. Shapero (<i>Georgia Institute of Technology, USA</i>)	
Hunter Hughes (<i>Georgia Institute of Technology, USA</i>)	
Peter Tuuk (<i>Georgia Institute of Technology, USA</i>)	
THE APPLICATION OF SUM-PRODUCT ALGORITHM FOR DATA ASSOCIATION	416
Shuai Sun (<i>Northwestern Polytechnical University, P.R. China</i>)	
Hua Lan (<i>Northwestern Polytechnical University, P.R. China</i>)	
Zengfu Wang (<i>Northwestern Polytechnical University, P.R. China</i>)	
Quan Pan (<i>Northwestern Polytechnical University, P.R. China</i>)	
Hong Zhang (<i>NorthWestern Polytechnical University, P.R. China</i>)	
THE KERNEL-SME FILTER WITH FALSE AND MISSING MEASUREMENTS	424
Marcus Baum (<i>University of Göttingen, Germany</i>)	
Shishan Yang (<i>University of Göttingen, Germany</i>)	
Uwe D. Hanebeck (<i>Intelligent Sensor-Actuator Systems Laboratory (ISAS), Germany</i>)	

13:10 - 14:50

SS9: Sequential Monte Carlo Methods for Complex Systems

Room E

Session Chair: Lyudmila Mihaylova (University of Sheffield, United Kingdom)

HIDDEN MARKOV MODELS WITH DISCRETE INFINITE LOGISTIC NORMAL DISTRIBUTION PRIORS 429

Hao Zhu (Chongqing University of Posts and Telecommunications, P.R. China)

Jinsong Hu (Chongqing University of Posts and Telecommunications, P.R. China)

Henry Leung (University of Calgary, Canada)

IMPROVING EXTENT ESTIMATION OF EXTENDED TARGETS WITH TRACK-BEFORE-DETECT..... 434

Paolo Pileggi (Thales Nederland B.V., The Netherlands)

Martin Podt (Thales Nederland B.V., The Netherlands)

**A ROBUST AND EFFICIENT SYSTEM IDENTIFICATION METHOD FOR A STATE-SPACE MODEL
WITH HEAVY-TAILED PROCESS AND MEASUREMENT NOISES 441**

Yulong Huang (Harbin Engineering University, P.R. China)

Yonggang Zhang (Harbin Engineering University, P.R. China)

Ning Li (Harbin Engineering University, P.R. China)

Syed Mohsen Naqvi (Newcastle University, United Kingdom)

Jonathon Chambers (Newcastle University, United Kingdom)

**EFFICIENT CHARACTERIZATION OF LABELING UNCERTAINTY
IN CLOSELY-SPACED TARGETS TRACKING 449**

Carlos Moreno Leon (Thales Nederland B.V., The Netherlands)

Hans Driessen (Thales Nederland B.V., The Netherlands)

Pranab K. Mandal (University of Twente, The Netherlands)

**DEALING WITH MASSIVE DATA WITH A DISTRIBUTED EXPECTATION
PROPAGATION PARTICLE FILTER FOR OBJECT TRACKING..... 457**

Allan De Freitas (University of Sheffield, United Kingdom)

Lyudmila Mihaylova (University of Sheffield, United Kingdom)

13:10 - 14:50

SS19: Evaluation of Technologies for Uncertainty Reasoning

Room F

Session Chair: Paolo C.G. Costa (George Mason University, USA)

**EVALUATION OF A CANONICAL MODEL APPROACH TO PROBABILISTIC
DATA ASSOCIATION IN TRACKING WITH PARTICLE FILTERS 464**

Gregor Pavlin (Thales Research and Technology, The Netherlands)

Rik Claessens (Thales Research & Technology, The Netherlands)

Patrick de Oude (Thales Research & Technology, The Netherlands)

Paulo C.G. Costa (George Mason University, USA)

PRAGMATIC DATA FUSION UNCERTAINTY CONCERNS: TRIBUTE TO DAVE L. HALL..... 472

Erik Blasch (Air Force Research Laboratory, USA)

Paulo C.G. Costa (George Mason University, USA)

J. Pieter De Villiers (CSIR, South Africa)

Kathryn B. Laskey (George Mason Univ., USA)

James Llinas (State Univ. Buffalo, USA)

Anne-Laure Jousselme (NATO STO ctr., Italy)

A SIMILARITY MEASURE IN BAYESIAN CLASSIFICATION BASED ON CHARACTERISTIC ATTRIBUTES OF OBJECTS	480
Max Krüger (<i>Hochschule Furtwangen (HFU), Germany</i>)	
Jürgen Ziegler (<i>Industrieanlagen-Betriebsgesellschaft mbH (IABG), Germany</i>)	
SEMANTIC CRITERIA FOR THE ASSESSMENT OF UNCERTAINTY HANDLING FUSION MODELS.....	488
Anne-Laure Jousselme (<i>NATO STO Centre for Maritime Research and Experimentation, Italy</i>)	
DECISION MAKING UNDER VAGUENESS AND UNCERTAINTY	496
Audun Jøsang (<i>University of Oslo, Norway</i>)	
13:10 - 14:50	
SS8: Recent Advances in Estimation Performance Bounds and Applications	
Room G	
Session Chair: Carsten Fritzsche (<i>Linköping University, Sweden</i>)	
A RISK-UNBIASED BOUND FOR INFORMATION FUSION WITH NUISANCE PARAMETERS.....	504
Shahar Bar (<i>Ben-Gurion University of the Negev, Israel</i>)	
Joseph Tabrikian (<i>Ben-Gurion University of the Negev, Israel</i>)	
RECENT RESULTS ON BAYESIAN CRAMÉR-RAO BOUNDS FOR JUMP MARKOV SYSTEMS	512
Carsten Fritzsche (<i>Linköping University, Sweden</i>)	
Umut Orguner (<i>Middle East Technical University, Turkey</i>)	
Lennart Svensson (<i>Chalmers University of Technology, Sweden</i>)	
Fredrik Gustafsson (<i>Linköping University, Sweden</i>)	
APPROXIMATE DIAGONALIZED COVARIANCE MATRIX FOR SIGNALS WITH CORRELATED NOISE	521
Bram Dil (<i>Linköping University, Sweden</i>)	
Gustaf Hendeby (<i>Linköping University, Sweden</i>)	
Fredrik Gustafsson (<i>Linköping University, Sweden</i>)	
Bernhard J. Hoenders (<i>Groningen University, The Netherlands</i>)	
A SURVEY OF SOME RECENT RESULTS ON THE CRLB FOR PARAMETER ESTIMATION AND ITS EXTENSION.....	528
Y. Bar-Shalom (<i>UConn, USA</i>)	
P. Willett (<i>UConn, USA</i>)	
CRAMÉR-RAO LOWER BOUND FOR LINEAR FILTERING WITH T-DISTRIBUTED MEASUREMENT NOISE	536
Robert Piché (<i>Tampere University of Technology, Finland</i>)	
13:10 - 14:50	
SS5: Data Fusion Methods for Indoor Localization of People and Objects	
Room H	
Session Chair: Antonio Zea (<i>Karlsruhe Institute of Technology, Germany</i>)	
AN EFFICIENT INDOOR POSITIONING PARTICLE FILTER USING A FLOOR-PLAN BASED PROPOSAL DISTRIBUTION	541
Henri Nurminen (<i>Tampere University of Technology, Finland</i>)	
Matti Raitoharju (<i>Tampere University of Technology, Finland</i>)	
Robert Piché (<i>Tampere University of Technology, Finland</i>)	

HYBRID INDOOR PEDESTRIAN NAVIGATION COMBINING AN INS AND A SPATIAL NON-UNIFORM UWB-NETWORK	549
Frank Hartmann (<i>Karlsruhe Institute of Technology (KIT), Germany</i>)	
Dhafar Rifat (<i>Karlsruhe Institute of Technology (KIT), Germany</i>)	
Wilhelm Stork (<i>Karlsruhe Institute of Technology (KIT), Germany</i>)	
ON PRIOR NAVIGATION KNOWLEDGE IN MULTI SENSOR INDOOR LOCALISATION.....	557
Frank Ebner (<i>University of Applied Sciences Wuerzburg-Schweinfurt, Germany</i>)	
Toni Fetzer (<i>University of Applied Sciences Würzburg-Schweinfurt, Germany</i>)	
Frank Deinzer (<i>University of Applied Sciences Würzburg-Schweinfurt, Germany</i>)	
Marcin Grzegorzek (<i>University of Siegen, Germany</i>)	
FUSION OF STEREO CAMERA AND MIMO-FMCW RADAR FOR PEDESTRIAN TRACKING IN INDOOR ENVIRONMENTS.....	565
Roman Streubel (<i>University of Stuttgart, Germany</i>)	
Bin Yang (<i>University of Stuttgart, Germany</i>)	
FUSION OF VISUAL ODOMETRY AND INERTIAL SENSORS USING DUAL QUATERNIONS AND STOCHASTIC CLONING.....	573
Manuel Schwaab (<i>Hahn-Schickard-Gesellschaft Institute for Microsystem and Information Technology (HSG-IMIT), Germany</i>)	
Michailas Romanovas (<i>German Aerospace Centre (DLR), Germany</i>)	
Davide Plaia (<i>Hahn-Schickard-Gesellschaft Institute for Microsystem and Information Technology (HSG-IMIT), Germany</i>)	
Tobias Schwarze (<i>Karlsruhe Institute of Technology (KIT), Germany</i>)	
Yiannis Manoli (<i>Hahn-Schickard-Gesellschaft Institute for Microsystem and Information Technology (HSG-IMIT), Germany</i>)	
15:20 - 17:00	
SS20: Extended Object and Group Tracking	
Room A	
Session Chair: Marcus Baum (<i>University of Göttingen, Germany</i>)	
CLOSED-FORM BIAS REDUCTION FOR SHAPE ESTIMATION WITH POLYGON MODELS	581
Florian Faion (<i>Intelligent Sensor-Actuator Systems Laboratory (ISAS), Germany</i>)	
Maxim Dolgov (<i>Intelligent Sensor-Actuator Systems Laboratory (ISAS), Germany</i>)	
Antonio Zea (<i>Intelligent Sensor-Actuator Systems Laboratory (ISAS), Germany</i>)	
Uwe D. Hanebeck (<i>Intelligent Sensor-Actuator Systems Laboratory (ISAS), Germany</i>)	
INCREMENTAL LEARNING OF ENVIRONMENT INTERACTIVE STRUCTURES FROM TRAJECTORIES OF INDIVIDUALS	589
Damian Campo (<i>University of Genova, Italy</i>)	
Vahid Bastani (<i>University of Genova, Italy</i>)	
Lucio Marcenaro (<i>University of Genova, Italy</i>)	
Carlo Regazzoni (<i>University of Genova, Italy</i>)	
ANNEALED MCMC FOR BAYESIAN LEARNING OF LINEAR GAUSSIAN STATE SPACE MODELS WITH CHANGEPOLNTS.....	597
Pete Bunch (<i>University of Cambridge, United Kingdom</i>)	
James Murphy (<i>University of Cambridge, United Kingdom</i>)	
Simon Godsill (<i>University of Cambridge, United Kingdom</i>)	
SEQUENTIAL SPARSE SYSTEM ESTIMATION FOR LINEAR SYSTEMS WITH NONLINEAR OBSERVATIONS	606
James Murphy (<i>University of Cambridge, United Kingdom</i>)	
Simon Godsill (<i>University of Cambridge, United Kingdom</i>)	

TRACKING ELONGATED EXTENDED OBJECTS USING SPLINES	612
Antonio Zea (<i>Intelligent Sensor-Actuator-Systems Laboratory (ISAS), Germany</i>)	
Florian Faion (<i>Intelligent Sensor-Actuator-Systems Laboratory (ISAS), Germany</i>)	
Uwe D. Hanebeck (<i>Intelligent Sensor-Actuator-Systems Laboratory (ISAS), Germany</i>)	

15:20 - 17:00

SS14: Sensor, Resources, and Process Management for Information Fusion Systems (Continued)

Room B

Session Chair: Maxim Dolgov (*Intelligent Sensor-Actuator Systems Laboratory, Germany*)

ANTENNA PLACEMENT OF MULTISTATIC RADAR SYSTEM WITH DETECTION AND LOCALIZATION PERFORMANCE.....	620
Yichuan Yang (<i>University of Electronic Science and Technology of China, P.R. China</i>)	
Wei Yi (<i>University of Electronic Science and Technology of China, P.R. China</i>)	
Tianxian Zhang (<i>University of Electronic Science and Technology of China, P.R. China</i>)	
Guolong Cui (<i>University of Electronic Science and Technology of China, P.R. China</i>)	
Lingjiang Kong (<i>University of Electronic Science and Technology of China, P.R. China</i>)	
Xiaobo Yang (<i>University of Electronic Science and Technology of China, P.R. China</i>)	

CHARGING STATE AWARE OPTIMAL AUCTION DESIGN FOR SENSOR SELECTION IN CROWDSOURCING BASED SENSOR NETWORKS.....	626
---	------------

Nianxia Cao (*Syracuse University, USA*)
 Yanzhi Wang (*Syracuse University, USA*)
 Swastik Brahma (*Syracuse University, USA*)
 Pramod K. Varshney (*Syracuse University, USA*)

ROLLING HORIZON NON-MYOPIC SCHEDULING OF MULTIFUNCTION RADAR FOR SEARCH AND TRACK.....	634
---	------------

Marion Byrne (*Defence Science and Technology Group, Australia*)
 Krüger White (*Defence Science and Technology Group, Australia*)
 Jason Williams (*Defence Science and Technology Group, Australia*)

SPEEDING UP IA MECHANICALLY-STEERED MULTISTATIC RADAR SCHEDULING WITH GP-GPUS	643
--	------------

R. W. Focke (*CSIR, South Africa*)
 J. P. de Villiers (*CSIR, South Africa*)
 M. R. Inggs (*University Cape Town, South Africa*)

MULTI-BERNOULLI SENSOR CONTROL USING CAUCHY-SCHWARZ DIVERGENCE.....	651
--	------------

Amirali K. Gostar (*RMIT University, Australia*)
 Reza Hoseinnezhad (*RMIT University, Australia*)
 Alireza Bab-Hadiashar (*RMIT University, Australia*)

15:20 - 17:00

PHD Methods I

Room C

Session Chair: Ronald Mahler (*Unified Data Fusion Sciences, Inc., USA*)

A PHD FILTER WITH NEGATIVE BINOMIAL CLUTTER	658
Isabel Schlangen (<i>Heriot-Watt University, United Kingdom</i>)	
Emmanuel Delande (<i>Heriot-Watt University, United Kingdom</i>)	
Jeremie Houssineau (<i>Heriot-Watt University, United Kingdom</i>)	
Daniel E. Clark (<i>Heriot-Watt University, United Kingdom</i>)	

ADAPTIVE VO-VO FILTER FOR MANEUVERING TARGETS WITH TIME-VARYING DYNAMICS	666
Meng Jiang (<i>University of Electronic Science and Technology of China, P.R. China</i>)	
Wei Yi (<i>University of Electronic Science and Technology of China, P.R. China</i>)	
Reza Hoseinnezhad (<i>RMIT University, Australia</i>)	
Lingjiang Kong (<i>University of Electronic Science and Technology of China, P.R. China</i>)	
ASSOCIATION GATE-BASED GM-PHD FOR HIGH-EFFICIENCY TRACKING.....	673
Ming Lei (<i>Shanghai Jiaotong University, P.R. China</i>)	
Zhongliang Jing (<i>Shanghai Jiaotong University, P.R. China</i>)	
Peng Dong (<i>Shanghai Jiaotong University, P.R. China</i>)	
MULTI-TARGET JOINT DETECTION, TRACKING AND CLASSIFICATION USING GENERALIZED LABELED MULTI-BERNOULLI FILTER WITH BAYES RISK	680
Minzhe Li (<i>Shanghai Jiao Tong University, P.R. China</i>)	
Zhongliang Jing (<i>Shanghai Jiao Tong University, P.R. China</i>)	
Peng Dong (<i>Shanghai Jiao Tong University, P.R. China</i>)	
Han Pan (<i>Shanghai Jiao Tong University, P.R. China</i>)	
GENERALISED LABELLED MULTI-BERNOULLI FORWARD-BACKWARD SMOOTHING.....	688
Michael Beard (<i>Defence Science and Technology Group, Australia</i>)	
Ba-Tuong Vo (<i>Curtin University, Australia</i>)	
Ba-Ngu Vo (<i>Curtin University, Australia</i>)	
15:20 - 17:00	
Data Association II	
Room D	
Session Chair: Roy Streit (<i>Metron Inc., USA</i>)	
ON THE SOLUTION OF DATA ASSOCIATION PROBLEM USING ROLLOUT ALGORITHMS.....	695
Selim Özgen (<i>METU, Turkey</i>)	
Mübəccel Demirekler (<i>METU, Turkey</i>)	
Umut Orguner (<i>METU, Turkey</i>)	
MULTIPLE HYPOTHESIS TRACKER IN THE PRESENCE OF RGPO/RGPI USING AMPLITUDE INFORMATION	703
Jing Hou (<i>Northwestern Polytechnical University, P.R. China</i>)	
Yan Yang (<i>Northwestern Polytechnical University, P.R. China</i>)	
Yi Chen (<i>Shanghai Institute of Electromechanical Engineering, P.R. China</i>)	
Linfeng Xu (<i>Northwestern Polytechnical University, P.R. China</i>)	
SEQUENTIAL PROCESSING JIPDA FOR MULTITARGET TRACKING IN CLUTTER USING MULTISTATIC PASSIVE RADAR.....	711
Yi Fang Shi (<i>Hanyang University, Korea</i>)	
Taek Lyul Song (<i>Hanyang University, Korea</i>)	
TRACKING AN UNKNOWN NUMBER OF TARGETS USING MULTIPLE SENSORS: A BELIEF PROPAGATION METHOD	719
Florian Meyer (<i>Centre for Maritime Research and Experimentation, Italy</i>)	
Paolo Braca (<i>Centre for Maritime Research and Experimentation, Italy</i>)	
Peter Willett (<i>University of Connecticut, USA</i>)	
Franz Hlawatsch (<i>TU Wien, Austria</i>)	
THREE FORMALISMS OF MULTIPLE HYPOTHESIS TRACKING.....	727
Shozo Mori (<i>Systems & Technology Research, USA</i>)	
Chee-Yee Chong (<i>Independent Researcher, USA</i>)	
KC Chang (<i>George Mason University, USA</i>)	

15:20 - 17:00

SS9: Sequential Monte Carlo Methods for Complex Systems (Continued)

Room E

Session Chair: Martin Ulmke (Fraunhofer FKIE, Germany)

**TRAFFIC STATE ESTIMATION VIA A PARTICLE FILTER WITH COMPRESSIVE SENSING
AND HISTORICAL TRAFFIC DATA**

735

*Matthew Hawes (University of Sheffield, United Kingdom)
Hayder M Amer (University of Sheffield, United Kingdom)
Lyudmila Mihaylova (University of Sheffield, United Kingdom)*

HIERARCHICAL FUSION IN PARTICLE FILTERING TRACK-BEFORE-DETECT

743

*Fernando J. Iglesias Garcia (University of Twente, The Netherlands)
Pranab K. Mandal (University of Twente, The Netherlands)
Mélanie Bocquel (University of Twente, The Netherlands)
Hans Driessen (Thales Nederland B.V., The Netherlands)*

**DYNAMIC HIERARCHICAL DIRICHLET PROCESS FOR
ABNORMAL BEHAVIOUR DETECTION IN VIDEO**

750

*Olga Isupova (University of Sheffield, United Kingdom)
Danil Kuzin (University of Sheffield, United Kingdom)
Lyudmila Mihaylova (University of Sheffield, United Kingdom)*

**SEQUENTIAL DISTANCE DEPENDENT CHINESE RESTAURANT PROCESSES
FOR MOTION SEGMENTATION OF 3D LIDAR DATA.....**

758

*Mehmet Ali Çağrı Tuncer (FKIE Fraunhofer, Germany)
Dirk Schulz (FKIE Fraunhofer, Germany)*

15:20 - 17:00

SS19: Evaluation of Technologies for Uncertainty Reasoning (Continued)

Room F

Session Chair: Anne-Laure Jousselme (NATO STO CMRE, Italy)

**UNCERTAINTY EVALUATION OF DATA AND INFORMATION FUSION
WITHIN THE CONTEXT OF THE DECISION LOOP**

766

*J.P. de Villiers (CSIR, South Africa)
A.-L. Jousselme (NATO-STO Centre for Maritime Research and Experimentation, Italy)
A. de Waal (University of Pretoria, South Africa)
G. Pavlin (Thales Research and Technology, The Netherlands)
K. Laskey (George Mason University, USA)
E. Blasch (Air Force Research Lab, USA)
P. Costa (George Mason University, USA)*

**CONSTRUCTION AND EVALUATION OF BAYESIAN NETWORKS
WITH EXPERT-DEFINED LATENT VARIABLES**

774

*Alta de Waal (University of Pretoria, South Africa)
Hildegarde Koen (Council for Scientific and Industrial Research, South Africa)
Pieter de Villiers (Council for Scientific and Industrial Research, South Africa)
Henk Roodt (Wintec, New Zealand)
Nyalleng Moorosi (Council for Scientific and Industrial Research, South Africa)
Gregor Pavlin (Thales Research and Technology, The Netherlands)*

A NEW BELIEF FUNCTION BASED APPROACH FOR MULTI-CRITERIA DECISION-MAKING SUPPORT	782
Jean Dezert (ONERA, France)	
Deqiang Han (Xi'an Jiaotong University, P.R. China)	
Hanlin Yin (Xi'an Jiaotong University, P.R. China)	
BELIEF-BASED ARGUMENTATION AND GOLDEN RULE FOR DECISION MAKING WITH SOFT AND HARD INFORMATION	790
Galina Rogova (State University of New York, USA)	
Ronald Yager (Iona College, USA)	
A GENERALIZATION OF BAYESIAN INFERENCE IN THE DEMPSSTER-SHAFER BELIEF THEORETIC FRAMEWORK.....	798
J.N. Heendeni (University of Miami, USA)	
K. Premaratne (University of Miami, USA)	
M.N. Murthi (University of Miami, USA)	
J. Uscinski (University of Miami, USA)	
M. Scheutz (Tufts University, USA)	
15:20 - 17:00	
Detection Methods	
Room G	
Session Chair: Thia Kirubarajan (McMaster University, Canada)	
JOINT DETECTION AND ESTIMATION FUSION IN DISTRIBUTED MULTIPLE SENSOR SYSTEMS.....	805
Hongyan Zhu (Xi'an Jiaotong University, P.R. China)	
Pangdeng Zhang (Xi'an Jiaotong University, P.R. China)	
Yan Lin (Xi'an Jiaotong University, P.R. China)	
Jing Liu (Xi'an Jiaotong University, P.R. China)	
ESTIMATING DETECTION STATISTICS WITHIN A BAYES-CLOSED MULTI-OBJECT FILTER.....	811
Javier Correa (Universidad de Chile, Chile)	
Martin Adams (Universidad de Chile, Chile)	
PERFORMANCE ANALYSIS OF WALD-STATISTIC BASED NETWORK DETECTION METHODS FOR RADIATION SOURCES	820
Satyabrata Sen (Oak Ridge National Laboratory, USA)	
Nageswara S.V Rao (Oak Ridge National Laboratory, USA)	
Chase Q. Wu (New Jersey Institute of Technology, USA)	
Mark I. Berry (New Jersey Institute of Technology, USA)	
Kayla M. Grieme (New Jersey Institute of Technology, USA)	
Richard R. Brooks (Clemson University, USA)	
Guthrie Cordone (Clemson University, USA)	
MODEL-BASED DATA-DRIVEN APPROACH FOR SLEEP APNEA DETECTION	828
Sandeep Gutta (Oklahoma State University, USA)	
Qi Cheng (Oklahoma State University, USA)	
Hoa D. Nguyen (Posts and Telecommunications Institute of Technology, Vietnam)	
Bruce A. Benjamin (Oklahoma State University, USA)	
JOINT IDENTIFICATION AND ESTIMATION FOR MULTI-DETECTION SYSTEMS.....	836
Xiaoxue Feng (Beijing Institute of Technology, P.R. China)	
Feng Pan (Beijing Institute of Technology, P.R. China)	
Weixing Li (Beijing Institute of Technology, P.R. China)	
Qi Gao (Beijing Institute of Technology, P.R. China)	

15:20 - 17:00

SS5: Data Fusion Methods for Indoor Localization of People and Objects

Room H

Session Chair: Florian Faion (Karlsruhe Institute of Technology (KIT) & Institute for Anthropomatics, Germany)

ACCURATE TRACKING IN NLOS ENVIRONMENTS USING

INTEGRATED IMU AND FIXED LAG SMOOTHER.....843

Shenghong Li (CSIRO, Australia)

Mark Hedley (CSIRO, Australia)

Iain B. Collings (Macquarie University, Australia)

Mark Johnson (CSIRO, Australia)

AUGMENTED MOTION MODELS FOR CONSTRAINED POSITION TRACKING

WITH KALMAN FILTERS.....849

Thomas Kautz (Friedrich-Alexander University Erlangen-Nürnberg, Germany)

Benjamin H. Groh (Friedrich-Alexander University Erlangen-Nürnberg, Germany)

Bjoern M. Eskofier (Friedrich-Alexander-Universität Erlangen-Nürnberg, Germany)

ASSESSMENT OF WIFI RSS USING DESIGN OF EXPERIMENT FOR

MOBILE ROBOT WIRELESS POSITIONING SYSTEM855

T. Thewan (Toyohashi University of Technology, Japan)

A.H. Ismail (Toyohashi University of Technology, Japan)

M. Panya (Pathumwan Institute of Technology, Thailand)

K. Terashima (Toyohashi University of Technology, Japan)

FLEXIBLE THREE-DIMENSIONAL CAMERA-BASED RECONSTRUCTION AND

CALIBRATION OF TRACKED INSTRUMENTS861

Martin Klemm (Offenburg University, Germany)

Fabian Seebacher (Offenburg University, Germany)

Harald Hoppe (Offenburg University, Germany)

Thursday, July 7

10:30 - 12:10

SS20: Extended Object and Group Tracking

Room A

Session Chair: Uwe D. Hanebeck (Karlsruhe Institute of Technology, Germany)

MULTIPLE EXTENDED OBJECT TRACKING USING GAUSSIAN PROCESSES 868

*Tobias Hirscher (Ulm University, Germany)
Alexander Scheel (Ulm University, Germany)
Stephan Reuter (Ulm University, Germany)
Klaus Dietmayer (Ulm University, Germany)*

TRACK LEVEL FUSION OF EXTENDED OBJECTS FROM HETEROGENEOUS SENSORS 876

*Bharanidhar Duraisamy (Daimler AG, Germany)
Michael Gabb (Daimler AG, Germany)
Aswin Vijayamohnan Nair (Daimler AG, Germany)
Tilo Schwarz (MBRDNA Inc., USA)
Ting Yuan (MBRDNA Inc., USA)*

MULTIPLE SENSOR BAYESIAN EXTENDED TARGET TRACKING FUSION APPROACHES USING RANDOM MATRICES 886

*Gemine Vivone (NATO STO Centre for Maritime Research and Experimentation, Italy)
Karl Granström (Chalmers University of Technology, Sweden)
Paolo Braca (NATO STO Centre for Maritime Research and Experimentation, Italy)
Peter Willett (University of Connecticut, USA)*

GAMMA GAUSSIAN INVERSE-WISHART POISSON MULTI-BERNOULLI FILTER FOR EXTENDED TARGET TRACKING 893

*Karl Granström (Chalmers University of Technology, Sweden)
Maryam Fatemi (Chalmers University of Technology, Sweden)
Lennart Svensson (Chalmers University of Technology, Sweden)*

EXTENDED OBJECT OR GROUP TARGET TRACKING USING RANDOM MATRIX WITH NONLINEAR MEASUREMENTS 901

*Jian Lan (Xi'an Jiaotong University, P.R. China)
X. Rong Li (University of New Orleans, USA)*

10:30 - 12:10

SLAM

Room B

Session Chair: Johan de Villiers (CSIR, South Africa)

GLOBALLY EXPONENTIALLY STABLE KALMAN FILTERING FOR SLAM WITH AHRS 909

*Tor A. Johansen (Norwegian University of Science and Technology, Norway)
Edmund Brekke (Norwegian University of Science and Technology, Norway)*

PARAMETRIC FUSION OF COMPLEX LANDMARK OBSERVATIONS PRESENT WITHIN THE ROAD NETWORK BY UTILIZING BUNDLE-ADJUSTMENT-BASED FULL-SLAM 917

*Sebastian Skibinski (AUDI AG, Germany)
Frank Weichert (TU Dortmund, Germany)
Heinrich Mueller (TU Dortmund, Germany)*

PREDICTION ERROR METHOD ESTIMATION FOR SIMULTANEOUS LOCALISATION AND MAPPING	927
<i>Zoran Sjanic (Saab AB, Sweden)</i>	
<i>Martin A. Skoglund (Linköping University, Sweden)</i>	
A RANDOM FINITE SET APPROACH TO OCCUPANCY-GRID SLAM.....	935
<i>Branko Ristic (RMIT University, Australia)</i>	
<i>Daniel Angley (RMIT University, Australia)</i>	
<i>Daniel Selvaratnam (The University of Melbourne, Australia)</i>	
<i>Bill Moran (RMIT University, Australia)</i>	
<i>Jennifer L. Palmer (Defence Science and Technology Group, Australia)</i>	
ROBUSTNESS IN VIEW-GRAFH SLAM	942
<i>Tariq Abuhashim (Istituto Italiano di Tecnologia, Italy)</i>	
<i>Lorenzo Natale (Istituto Italiano di Tecnologia, Italy)</i>	
10:30 - 12:10	
PHD Methods II	
Room C	
Session Chair: Daniel Clark (Heriot Watt, United Kingdom)	
INTEGRAL-TRANSFORM DERIVATIONS OF EXACT CLOSED-FORM MULTITARGET TRACKERS	950
<i>Ronald Mahler (Random Sets, USA)</i>	
CARDINALITY BALANCED MULTI-TARGET MULTI-BERNOULLI FILTER FOR TARGET TRACKING WITH AMPLITUDE INFORMATION	958
<i>Yang Feng (Northwestern Polytechnical University, P.R. China)</i>	
<i>Zhang Wanying (Northwestern Polytechnical University, P.R. China)</i>	
<i>Liang Yan (Northwestern Polytechnical University, P.R. China)</i>	
<i>Su Yazhe (Northwestern Polytechnical University, P.R. China)</i>	
<i>Yao Xuanzheng (Northwestern Polytechnical University, P.R. China)</i>	
MARITIME TARGET MULTIPATH TRACKING USING THE BERNOULLI FILTER.....	965
<i>Xinglin Shen (National University of Defense Technology, P.R. China)</i>	
<i>Zhiyong Song (National University of Defense Technology, P.R. China)</i>	
<i>Hongqi Fan (National University of Defense Technology, P.R. China)</i>	
<i>Qiang Fu (National University of Defense Technology, P.R. China)</i>	
SEQUENTIAL MONTE CARLO IMPLEMENTATION OF THE TRACK-ORIENTED MARGINAL MULTI-BERNOULLI/POISSON FILTER	972
<i>Thomas Kropfleiter (TU Wien, Austria)</i>	
<i>Florian Meyer (Centre for Maritime Research and Experimentation, Italy)</i>	
<i>Franz Hlawatsch (TU Wien, Austria)</i>	
A GENERALIZED LABELED MULTI-BERNOULLI FILTER FOR MANEUVERING TARGETS	980
<i>Yuthika Punchihewa (Curtin University of Technology, Australia)</i>	
<i>Ba-Ngu Vo (Curtin University of Technology, Australia)</i>	
<i>Ba-Tuong Vo (Curtin University of Technology, Australia)</i>	

10:30 - 12:10

SS13: Applications of Data Analytics and Information Fusion to Finance, Business, and Marketing

Room D

Session Chair: KuoChu Chang (George Mason University, USA)

VISUAL BAYESIAN FUSION TO NAVIGATE A DATA LAKE 987

Karamjit Singh (TCS Research, India)

Kaushal Paneri (TCS Research, India)

Aditeya Pandey (TCS Research, India)

Garima Gupta (TCS Research, India)

Geetika Sharma (TCS Research, India)

Puneet Agarwal (TCS Research, India)

Gautam Shroff (TCS Research, India)

ROBUST ESTIMATION OF VALUE-AT-RISK THROUGH CORRELATED FREQUENCY

AND SEVERITY MODEL 995

Sabyasachi Guharay (George Mason University, USA)

KC Chang (George Mason University, USA)

Jie Xu (George Mason University, USA)

FUSION WITH SENTIMENT SCORES FOR MARKET RESEARCH 1003

Subrata Das (Machine Analytics, Inc., USA)

Arup Das (Alphasure Technologies, USA)

ASSESSING USER DECISION BEHAVIORS

FOR DYNAMIC SPECTRUM SHARING AND PRICING MODELS 1011

Todd Martin (George Mason University, USA)

Kuo-Chu Chang (George Mason University, USA)

OPTIMAL ASSET ALLOCATION WITH MUTUAL INFORMATION..... 1019

KC Chang (George Mason University, USA)

Zhi Tian (George Mason University, USA)

10:30 - 12:10

SS12: Advances in Distributed Kalman Filtering

Room E

Session Chair: Benjamin Noack (Karlsruhe Institute of Technology (KIT), Germany)

COVARIANCE INTERSECTION IN TRACK-TO-TRACK FUSION WITHOUT MEMORY 1027

Jiří Ajgl (University of West Bohemia, Czech Republic)

Ondřej Straka (University of West Bohemia, Czech Republic)

COMPARISON OF OPTIMAL DISTRIBUTED ESTIMATION AND CONSENSUS FILTERING 1034

Chee-Yee Chong (Independent Researcher, USA)

Kuo-Chu Chang (George Mason University, USA)

Shozo Mori (Systems & Technology Research, USA)

DISTRIBUTED KALMAN FILTERING WITH DATA-DRIVEN COMMUNICATION 1042

Giorgio Battistelli (Università degli Studi di Firenze, Italy)

Luigi Chisci (Università degli Studi di Firenze, Italy)

Daniela Selvi (Università degli Studi di Firenze, Italy)

FACTORIZED COVARIANCE INTERSECTION FOR SCALABLE PARTIAL STATE DECENTRALIZED DATA FUSION.....	1049
<i>Nisar R. Ahmed (University of Colorado Boulder, USA)</i>	
<i>William W. Whitacre (Draper Laboratory)</i>	
<i>Sangwoo Moon (University of Colorado Boulder, USA)</i>	
<i>Eric W. Frew (University of Colorado Boulder)</i>	
MINIMUM INFORMATION LOSS FUSION IN DISTRIBUTED SENSOR NETWORKS	1057
<i>Daniel Clarke (Cranfield Defence and Security, United Kingdom)</i>	
10:30 - 12:10	
Particle Filtering	
Room F	
Session Chair: Simon Maskell (QinetiQ, United Kingdom)	
SEQUENTIAL MONTE CARLO ESTIMATION OF TRANSITION PROBABILITIES IN MIXTURE FILTERING PROBLEMS	1063
<i>Milan Papez (Brno University of Technology, Czech Republic)</i>	
MONTE CARLO SET-MEMBERSHIP FILTERING FOR NONLINEAR DYNAMIC SYSTEMS.....	1071
<i>Zhiguo Wang (Sichuan University, P.R. China)</i>	
<i>Xiaojing Shen (Sichuan University, P.R. China)</i>	
<i>Yunmin Zhu (Sichuan University, P.R. China)</i>	
<i>Jianxin Pan (Sichuan University, P.R. China)</i>	
ATTRACTOR-DIRECTED PARTICLE FILTERING WITH POTENTIAL FIELDS.....	1079
<i>Patrick de Oude (Thales Research and Technology, The Netherlands)</i>	
<i>Gregor Pavlin (Thales Research and Technology, The Netherlands)</i>	
<i>Rik Claessens (Thales Research and Technology, The Netherlands)</i>	
SET-MEMBERSHIP FILTERING USING RANDOM SAMPLES.....	1087
<i>Pei Hua Leong (University of Melbourne, Australia)</i>	
<i>Girish N. Nair (University of Melbourne, Australia)</i>	
IMPROVEMENT OF THE LAPLACE-BASED PARTICLE FILTER FOR TRACK-BEFORE-DETECT.....	1095
<i>Christian Musso (ONERA, France)</i>	
<i>Frédéric Champagnat (ONERA, France)</i>	
<i>Olivier Rabaste (ONERA, France)</i>	
10:30 - 12:10	
Data Association III	
Room G	
Session Chair: Claude Jauffret (Université de Toulon, France)	
THE NOTCHED PROBABILISTIC DATA ASSOCIATION FILTER.....	1103
<i>Ali Onder Bozdogan (Ankara University, Turkey)</i>	
<i>Murat Efe (Ankara University, Turkey)</i>	
A STRUCTURED MEAN FIELD APPROACH FOR EXISTENCE-BASED MULTIPLE TARGET TRACKING.....	1111
<i>Roslyn A. Lau (Defence Science and Technology Group, Australia)</i>	
<i>Jason L. Williams (Defence Science and Technology Group, Australia)</i>	

QUANTA TRACKING ALGORITHM FOR MULTIPLE MOVING TARGETS.....	1119
Darin T. Dunham (<i>Lockheed Martin Corporation, USA</i>)	
Terry L. Ogle (<i>Georgia Tech Research Institute, USA</i>)	
Peter K. Willett (<i>University of Connecticut, USA</i>)	
Balakumar Balasingam (<i>University of Connecticut, USA</i>)	
LABELED MULTI-OBJECT TRACKING ALGORITHMS FOR GENERIC OBSERVATION MODEL.....	1125
Suqi Li (<i>University of Electronic Science and Technology of China, P.R. China</i>)	
Wei Yi (<i>University of Electronic Science and Technology of China, P.R. China</i>)	
Bailu Wang (<i>University of Electronic Science and Technology of China, P.R. China</i>)	
Lingjiang Kong (<i>University of Electronic Science and Technology of China, P.R. China</i>)	
HELICOPTER TRACKING AND CLASSIFICATION WITH MULTIPLE INTERACTING MULTIPLE MODEL ESTIMATOR WITH OUT-OF-SEQUENCE ACOUSTIC AND EO MEASUREMENTS	1132
Hong An Jack Huang (<i>DSO National Laboratories, Singapore</i>)	
Rong Yang (<i>DSO National Laboratories., Singapore</i>)	
Gee Wah Ng (<i>DSO National Laboratories, Singapore</i>)	
Yaakov Bar-Shalom (<i>University of Connecticut, USA</i>)	
10:30 - 12:10	
Classification	
Room H	
Session Chair: Lance Kaplan (<i>US Army Research Laboratory, USA</i>)	
SPACE OBJECT CLASSIFICATION USING DEEP CONVOLUTIONAL NEURAL NETWORKS	1140
Richard Linares (<i>University of Minnesota, USA</i>)	
Roberto Furfaro (<i>University of Arizona, USA</i>)	
JOINT FAULT DETECTION, IDENTIFICATION, AND STATE ESTIMATION BASED ON CONDITIONAL JOINT DECISION AND ESTIMATION	1147
Qingqiang Ji (<i>Xi'an Jiaotong University, P.R. China</i>)	
Jian Lan (<i>Xi'an Jiaotong University, P.R. China</i>)	
X. Rong Li (<i>University of New Orleans, USA</i>)	
OBJECT RECOGNITION AND IDENTIFICATION USING ESM DATA	1155
E. Taghavi (<i>McMaster University, Canada</i>)	
D. Song (<i>McMaster University, Canada</i>)	
R. Thamarasa (<i>McMaster University, Canada</i>)	
T. Kirubarajan (<i>McMaster University, Canada</i>)	
Anne-Claire Boury-Brisset (<i>Defence Research and Development, Canada</i>)	
Bhashyam Balaji (<i>Defence Research and Development, Canada</i>)	
MAXIMUM ENTROPY FEATURE FUSION.....	1163
Paul M. Baggenstoss (<i>Fraunhofer FKIE, Germany</i>)	
MULTI-SENSOR IMAGE FUSION AND TARGET CLASSIFICATION FOR IMPROVED MARITIME DOMAIN AWARENESS	1170
Michail Pothitos (<i>Hellenic Navy, Greece</i>)	
Murali Tummala (<i>Naval Postgraduate School, USA</i>)	
James Scrofani (<i>Naval Postgraduate School, USA</i>)	
John McEachen (<i>Naval Postgraduate School, USA</i>)	

13:10 - 14:50

SS20: Extended Object and Group Tracking (Continued)

Room A

Session Chair: Wolfgang Koch (Fraunhofer FKIE & University of Bonn, Germany)

SECOND-ORDER EXTENDED KALMAN FILTER FOR EXTENDED OBJECT AND GROUP TRACKING 1178

Shishan Yang (University of Göttingen, Germany)

Marcus Baum (University of Göttingen, Germany)

EXTENSION-DEFORMATION APPROACH TO EXTENDED OBJECT TRACKING 1185

Xiaomeng Cao (Xi'an Jiaotong University, P.R. China)

Jian Lan (Xi'an Jiaotong University, P.R. China)

X. Rong Li (University of New Orleans, USA)

RAO-BLACKWELLISED PARTICLE FILTER FOR STAR-CONVEX

EXTENDED TARGET TRACKING MODELS 1193

Emre Özkan (Middle East Technical University, Turkey)

Niklas Wahlström (Uppsala University, Sweden)

Simon J. Godsill (University of Cambridge, United Kingdom)

USING SEPARABLE LIKELIHOODS FOR LASER-BASED VEHICLE TRACKING

WITH A LABELED MULTI-BERNOULLI FILTER 1200

Alexander Scheel (Ulm University, Germany)

Stephan Reuter (Ulm University, Germany)

Klaus Dietmayer (Ulm University, Germany)

SPARSE STRUCTURE INFERENCE FOR GROUP AND NETWORK TRACKING 1208

James Murphy (University of Cambridge, United Kingdom)

Emre Ozkan (Middle East Technical University, Turkey)

Pete Bunch (University of Cambridge, United Kingdom)

Simon Godsill (University of Cambridge, United Kingdom)

13:10 - 14:50

Computer Vision I

Room B

Session Chair: Daniel Bender (Fraunhofer FKIE, Germany)

OCTACOG ALIGNMENT: A FAST AND RELIABLE ALTERNATIVE

TO ITERATIVE ALIGNMENT SCHEMES 1215

Andreas Beyer (Heidelberg University, Germany)

Yu Liu (Swiss Federal Laboratories for Materials Science and Technology, Switzerland)

Susanne Krömer (Heidelberg University, Germany)

SIMULTANEOUS TARGET STATE AND PASSIVE SENSORS BIAS ESTIMATION 1223

Djedjiga Belfadel (Fairfield University, USA)

Yaakov Bar-Shalom (University of Connecticut, USA)

Peter Willett (University of Connecticut, USA)

VEHICLE LOGO RECOGNITION BY SPATIAL-SIFT COMBINED WITH LOGISTIC REGRESSION 1228

Ruilong Chen (University of Sheffield, United Kingdom)

Matthew Hawes (University of Sheffield, United Kingdom)

Lyudmila Mihaylova (University of Sheffield, United Kingdom)

Jingjing Xiao (University of Birmingham, United Kingdom)

Wei Liu (University of Sheffield, United Kingdom)

A NOVEL NIGHT VISION IMAGE COLOR FUSION METHOD BASED ON SCENE RECOGNITION.....	1236
Zhe Qu (<i>Shanghai Jiao Tong University, P.R. China</i>)	
Gang Xiao (<i>Shanghai Jiaotong University, P.R. China</i>)	
Ningwen Xu (<i>Shanghai Jiao Tong University, P.R. China</i>)	
Zhuoran Diao (<i>Shanghai Jiao Tong University, P.R. China</i>)	
He Jia-Zhou (<i>Jiangsu Automation Research Institute, P.R. China</i>)	
GEOMETRIC SEPARATION OF SUPERIMPOSED IMAGES.....	1244
Mitul M. Mehta (<i>University of Liverpool, United Kingdom</i>)	
Elias J. Griffith (<i>University of Liverpool, United Kingdom</i>)	
Simon Maskell (<i>University of Liverpool, United Kingdom</i>)	
Jason F. Ralph (<i>University of Liverpool, United Kingdom</i>)	
13:10 - 14:50	
Tracking I	
Room C	
Session Chair: Stefano Coraluppi (<i>Systems & Technology Research, USA</i>)	
TOWARDS USING SPARSE CODING IN APPEARANCE MODELS FOR SOLAR EVENT TRACKING	N/A
Dustin J. Kempton (<i>Georgia State University, USA</i>)	
Michael A. Schuh (<i>Georgia State University, USA</i>)	
Rafal A. Angryk (<i>Georgia State University, USA</i>)	
VARIATIONAL BAYESIAN APPROACH FOR JOINT MULTITARGET TRACKING OF MULTIPLE DETECTION SYSTEMS.....	1260
Hua Lan (<i>Northwestern Polytechnical University, P.R. China</i>)	
Quan Pan (<i>Northwestern Polytechnical University, P.R. China</i>)	
Feng Yang (<i>Northwestern Polytechnical University, P.R. China</i>)	
Shuai Sun (<i>Northwestern Polytechnical University, P.R. China</i>)	
Lin Li (<i>Northwestern Polytechnical University, P.R. China</i>)	
ON FUSION OF SENSOR MEASUREMENTS AND OBSERVATION WITH UNCERTAIN TIMESTAMP FOR TARGET TRACKING.....	1268
Clas Veibäck (<i>Linköping University, Sweden</i>)	
Gustaf Hendeby (<i>Linköping University, Sweden</i>)	
Fredrik Gustafsson (<i>Linköping University, Sweden</i>)	
MULTI-PATH MULTI-RATE FILTER FOR OTHR BASED TRACKING SYSTEMS	1276
Hang Geng (<i>Northwestern Polytechnical University, P.R. China</i>)	
Yan Liang (<i>Northwestern Polytechnical University, P.R. China</i>)	
Xiaoxu Wang (<i>Northwestern Polytechnical University, P.R. China</i>)	
Feng Yang (<i>Northwestern Polytechnical University, P.R. China</i>)	
Linfeng Xu (<i>Northwestern Polytechnical University, P.R. China</i>)	
Quan Pan (<i>Northwestern Polytechnical University, P.R. China</i>)	
CONSTRAINED TESTING AND ESTIMATION FOR BAYESIAN JOINT DECISION AND ESTIMATION.....	1284
Yongxin Gao (<i>Xi'an Jiaotong University, P.R. China</i>)	
Enbin Song (<i>Sichuan University, P.R. China</i>)	
X. Rong Li (<i>University of New Orleans, USA</i>)	

13:10 - 14:50

Uncertainty Modeling I

Room D

Session Chair: Pranab Mandal (University of Twente, The Netherlands)

PRINCIPLES OF SUBJECTIVE NETWORKS 1292

Audun Jøsang (University of Oslo, Norway)

Lance Kaplan (US Army Research Laboratory, USA)

EFFICIENT SUBJECTIVE BAYESIAN NETWORK BELIEF PROPAGATION FOR TREES 1300

Lance Kaplan (US Army Research Lab, USA)

Magdalena Ivanovska (University of Oslo, Norway)

COMPARATIVE STUDY OF FOCAL DISTANCE MEASURES IN THEORY OF BELIEF FUNCTIONS..... 1308

Yi Yang (Xi'an Jiaotong University, P.R. China)

Deqiang Han (Xi'an Jiaotong University, P.R. China)

Jean Dezert (ONERA, France)

Yan Lin (Xi'an Jiaotong University, P.R. China)

EVIDENTIAL LABEL PROPAGATION ALGORITHM FOR GRAPHS 1316

Kuang Zhou (Northwestern Polytechnical University, P.R. China)

Arnaud Martin (University of Rennes 1, France)

Quan Pan (Northwestern Polytechnical University, P.R. China)

Zhun-ga Liu (Northwestern Polytechnical University, P.R. China)

TOTAL CONFLICT REDISTRIBUTION RULE FOR EVIDENTIAL FUSION 1324

Faouzi Sebbak (Ecole Militaire Polytechnique, Algeria)

Farid Benhammadi (Ecole Militaire Polytechnique, Algeria)

13:10 - 14:50

Distributed Fusion I

Room E

Session Chair: Marcus Baum (University of Göttingen, Germany)

DISTRIBUTED MULTI-SENSOR FUSION USING GENERALIZED MULTI-BERNOULLI DENSITIES 1332

Meng Jiang (University of Electronic Science and Technology of China, P.R. China)

Wei Yi (University of Electronic Science and Technology of China, P.R. China)

Reza Hoseinnezhad (RMIT University, Australia)

Lingjiang Kong (University of Electronic Science and Technology of China, P.R. China)

**DISTRIBUTED LOCALISATION OF SENSORS WITH PARTIALLY OVERLAPPING
FIELD-OF-VIEWS IN FUSION NETWORKS..... 1340**

Murat Üney (The University of Edinburgh, United Kingdom)

Bernard Mulgrew (The University of Edinburgh, United Kingdom)

Daniel Clark (Heriot-Watt University, United Kingdom)

A SCALABLE AND DISTRIBUTED SOLUTION TO THE INERTIAL MOTION CAPTURE PROBLEM..... 1348

Manon Kok (Linköping University, Sweden)

Sina Khoshfetrat Pakazad (Linköping University, Sweden)

Thomas B. Schön (Uppsala University, Sweden)

Anders Hansson (Linköping University, Sweden)

Jeroen D. Hol (Xsens Technologies B.V., The Netherlands)

DISTRIBUTED CONSENSUS IN NOISY WIRELESS SENSOR NETWORKS	1356
<i>Boyuan Li (University of Calgary, Canada)</i>	
<i>Henry Leung (University of Calgary, Canada)</i>	
<i>Chatura Seneviratne (University of Calgary, Canada)</i>	
EMITTER DETECTION SYSTEM DESIGN WITH RANGE DEPENDENT OBSERVATIONS.....	1364
<i>Huimin Chen (University of New Orleans, USA)</i>	
<i>Shudong Zhang (Capital Normal University, P.R. China)</i>	
13:10 - 14:50	
SS2: Dynamic Data Driven Application Systems for Sensor Data Problems	
Room F	
Session Chair: Vasileios Maroulas (University of Minnesota, USA)	
PARTICLE GAUSSIAN MIXTURE (PGM) FILTERS.....	1369
<i>D. Raihan (Texas A&M University, USA)</i>	
<i>S. Chakravorty (Texas A&M University, USA)</i>	
TOPOLOGICAL LEARNING FOR ACOUSTIC SIGNAL IDENTIFICATION	1377
<i>Andrew Marchese (University of Tennessee, USA)</i>	
<i>Vasileios Maroulas (University of Tennessee, USA)</i>	
FUSION OF PRIVILEGED FEATURES FOR EFFICIENT CLASSIFIER TRAINING	1382
<i>Roman Ilin (Air Force Research Laboratory, USA)</i>	
<i>Rauf Izmailov (Applied Communication Sciences, USA)</i>	
<i>Yury Goncharov (LongShortWay Inc., USA)</i>	
<i>Simon Streltsov (LongShortWay Inc., USA)</i>	
DEGREE OF NONLINEARITY (DON) MEASURE FOR TARGET TRACKING IN VIDEOS.....	1390
<i>Ping Wang (ObjectVideo Inc., USA)</i>	
<i>Erik Blasch (Air Force Research Lab, USA)</i>	
<i>X. Rong Li (University of New Orleans, USA)</i>	
<i>Eric Jones (Air Force Research Lab, USA)</i>	
<i>Randy Hanak (ObjectVideo Inc., USA)</i>	
<i>Weihong Yin (ObjectVideo Inc, USA)</i>	
<i>Allison Beach (ObjectVideo Inc., USA)</i>	
<i>Paul Brewer (ObjectVideo Inc., USA)</i>	
A GPU-BASED IMPLEMENTATION OF A SENSOR TASKING METHODOLOGY.....	1398
<i>M. Abusultan (Texas A&M University, USA)</i>	
<i>S. Chakravorty (Texas A&M University, USA)</i>	
<i>S.P. Khatri (Texas A&M University, USA)</i>	
13:10 - 14:50	
Track-before-Detect	
Room G	
Session Chair: Hans Driessen (Thales Nederland BV, The Netherlands)	
IMPROVED DP-TBD METHODS BASED ON MULTIPLE HYPOTHESIS TESTING FOR TARGET EARLY DETECTION	1406
<i>Jinghe Wang (University of Electronic Science and Technology of China, P.R. China)</i>	
<i>Wei Yi (University of Electronic Science and Technology of China, P.R. China)</i>	
<i>Lingjiang Kong (University of Electronic Science and Technology of China, P.R. China)</i>	

A FEHT ALGORITHM FOR DETECTING AND TRACKING VLO TARGETS.....	1414
Yunfei Guo (Hangzhou Dianzi University, P.R. China)	
Guoquan Chen (Hangzhou Dianzi University, P.R. China)	
Xiaofeng Zheng (Hangzhou Dianzi University, P.R. China)	
A HOUGH TRANSFORM BASED APPROACH TO ACOUSTIC SHOT LOCALIZATION	1420
Yifu Luo (Vanderbilt University, USA)	
Janos Sallai (Vanderbilt University, USA)	
Akos Ledeczi (Vanderbilt University, USA)	
A TRACKING APPROACH FOR LOW OBSERVABLE TARGET USING PLOT-SEQUENCES OF MULTI-FRAME DETECTION	1427
Zicheng Fang (University of Electronic Science and Technology of China, P.R. China)	
Wei Yi (University of Electronic Science and Technology of China, P.R. China)	
Lingjiang Kong (University of Electronic Science and Technology of China, P.R. China)	
DYNAMIC COMPRESSED SENSING BASED TRACK-BEFORE-DETECT ALGORITHM FOR DIM TARGET TRACKING.....	1434
Linghao Zeng (Xian Jiaotong University, P.R. China)	
Jing Liu (Xian Jiaotong University, P.R. China)	
Chongzhao Han (Xian Jiaotong University, P.R. China)	
13:10 - 14:50	
SS18: Positioning in Wide Area Networks	
Room H	
Session Chair: Fredrik Gunnarsson (Linköping University, Sweden)	
EXTENDED KERNEL-BASED LOCATION FINGERPRINTING IN WIRELESS SENSOR NETWORKS	1440
Zhansheng Duan (Xi'an Jiaotong University, P.R. China)	
Qi Zhou (Tencent Corporation, P.R. China)	
Uwe D. Hanebeck (Karlsruhe Inst of Technology, Germany)	
FEASIBILITY STUDY ON SMARTPHONE LOCALIZATION USING MOBILE ANCHORS IN SEARCH AND RESCUE OPERATIONS.....	1448
Jacob Sundqvist (Combitech, Sweden)	
Jonas Ekskog (Combitech, Sweden)	
Bram J. Dil (Linköping University, Sweden)	
Fredrik Gustafsson (Linköping University, Sweden)	
Jesper Tordenlid (Combitech, Sweden)	
Michael Petterstedt (Combitech, Sweden)	
FUSION OF TOF AND TDOA FOR 3GPP POSITIONING.....	1454
Kamiar Radnosrati (Linköping University, Sweden)	
Carsten Fritzsche (Linköping University, Sweden)	
Gustaf Hendeby (Linköping University, Sweden)	
Fredrik Gunnarsson (Ericsson Research, Sweden)	
Fredrik Gustafsson (Linköping University, Sweden)	
GAUSSIAN PROCESSES FOR FLOW MODELING AND PREDICTION OF POSITIONED TRAJECTORIES EVALUATED WITH SPORTS DATA	1461
Yuxin Zhao (Ericsson, Sweden)	
Feng Yin (Ericsson, Sweden)	
Fredrik Gunnarsson (Ericsson, Sweden)	
Fredrik Hultkrantz (Ericsson, Sweden)	
Johan Fagerlind (Ericsson, Sweden)	

A NOVEL MULTI-STEP ALGORITHM FOR LOW-ENERGY POSITIONING USING GPS.....	1469
<i>Daniel Örn (Linköping University, Sweden)</i>	
<i>Martin Szilassy (Linköping University, Sweden)</i>	
<i>Bram Dil (Linköping University, Sweden)</i>	
<i>Fredrik Gustafsson (Linköping University, Sweden)</i>	
15:20 - 17:00	
SS20: Extended Object and Group Tracking (Continued)	
Room A	
Session Chair: Peter Willett (University of Connecticut, USA)	
JPDA INTENSITY FILTER FOR TRACKING MULTIPLE EXTENDED OBJECTS IN CLUTTER	1477
<i>R. Streit (Metron Inc., USA)</i>	
POSTERIOR CRAMÉR-RAO LOWER BOUNDS FOR EXTENDED TARGET	
TRACKING WITH RANDOM MATRICES	1485
<i>Elif Saritaş (Middle East Technical University, Turkey)</i>	
<i>Umut Orguner (Middle East Technical University, Turkey)</i>	
15:20 - 17:00	
Computer Vision II	
Room B	
Session Chair: Nageswara Rao (Oak Ridge National Laboratory, USA)	
SCALING THE WORLD OF MONOCULAR SLAM WITH INS-MEASUREMENTS FOR UAS NAVIGATION	1493
<i>Daniel Bender (Fraunhofer FKIE, Germany)</i>	
<i>Fahmi Rouatbi (Fraunhofer FKIE, Germany)</i>	
<i>Marek Schikora (Fraunhofer FKIE, Germany)</i>	
<i>Daniel Cremers (Technical University of Munich, Germany)</i>	
<i>Wolfgang Koch (Fraunhofer FKIE, Germany)</i>	
HYBRID APPROACH ON LIDAR SIGNAL PROCESSING WITH	
INFORMATION FUSION OF MULTIPLE DETECTORS	1501
<i>Takashi Ogawa (DENSO Corporation, Germany)</i>	
<i>Gerd Wanielik (Chemnitz University of Technology, Germany)</i>	
UAV LOCALISATION UNDER LINEAR MAPPING FOR VISION-BASED NAVIGATION	1511
<i>Xuezhi Wang (RMIT University, Australia)</i>	
<i>Zhenlu Jin (Northwestern Polytechnical University, P.R. China)</i>	
<i>Quan Pan (Northwestern Polytechnical University, P.R. China)</i>	
<i>Bill Moran (RMIT University, Australia)</i>	
SPACEBORNE-AIRBORNE BISTATIC LINEAR ARRAY SAR HIGH	
RESOLUTION 3-D IMAGING BASED ON SPARSITY EXPLOITING	1518
<i>Shunjun Wei (University of Electronic Science and Technology of China, P.R. China)</i>	
<i>Xiaoling Zhang (University of Electronic Science and Technology of China, P.R. China)</i>	
<i>Jun Shi (University of Electronic Science and Technology of China, P.R. China)</i>	
AN OPEN SOURCE, FIDUCIAL BASED, VISUAL-INERTIAL MOTION CAPTURE SYSTEM	1523
<i>Michael Neunert (ETH Zurich, Switzerland)</i>	
<i>Michael Bloesch (ETH Zurich, Switzerland)</i>	
<i>Jonas Buchli (ETH Zurich, Switzerland)</i>	

15:20 - 17:00

PHD Methods III

Room C

Session Chair: Karl Granström (Chalmers University of Technology, Sweden)

THE ADAPTIVE LABELED MULTI-BERNOULLI FILTER 1531

Andreas Danzer (Ulm University, Germany)

Stephan Reuter (Ulm University, Germany)

Klaus Dietmayer (Ulm University, Germany)

AN IMPROVED MULTITARGET MULTI-BERNOULLI FILTER WITH CARDINALITY CORRECTED..... 1539

Zhejun Lu (National University of Defense Technology, P.R. China)

Weidong Hu (National University of Defense Technology, P.R. China)

Hua Yu (National University of Defense Technology, P.R. China)

Thia Kirubarajan (McMaster University, Canada)

A TIME-VARYING CLUTTER INTENSITY ESTIMATION ALGORITHM VIA GIBBS SAMPLER AND BIC 1546

Weifeng Liu (Hangzhou Dianzi University, P.R. China)

Hailong Cui (Hangzhou Dianzi University, P.R. China)

Chenglin Wen (Hangzhou Dianzi University, P.R. China)

15:20 - 17:00

Uncertainty Modeling II

Room D

Session Chair: Emre Özkan (Linköping University, Sweden)

CLASSIFICATION WITH CONCEPT LATTICE AND CHOQUET INTEGRAL 1554

Roman Ilin (Air Force Research Laboratory, USA)

A NEW HIERARCHICAL RANKING AGGREGATION METHOD 1562

Jiankun Ding (Xi'an Jiaotong University, P.R. China)

Deqiang Han (Xi'an Jiaotong University, P.R. China)

Jean Dezert (ONERA, France)

Yi Yang (Xi'an Jiaotong University, P.R. China)

A FRAMEWORK FOR EFFICIENT COMPUTATION OF BELIEF THEORETIC OPERATIONS..... 1570

Lalintha G. Polpitiya (University of Miami, USA)

Kamal Premaratne (University of Miami, USA)

Manohar N. Murthi (University of Miami, USA)

Dilip Sarkar (University of Miami, USA)

ADAPTIVE CREDAL MULTI-TARGET ASSIGNMENT FOR CONFLICT RESOLVING..... 1578

Jean-Philippe Lauffenburger (Université de Haute-Alsace, France)

Mohammed Boumediene (Université de Mostaganem, Algeria)

15:20 - 17:00

Distributed Fusion II

Room E

Session Chair: William Dale Blair (Georgia Institute of Technology, USA)

INFORMATION-GEOMETRIC METHODS FOR DISTRIBUTED MULTI-SENSOR ESTIMATION FUSION 1585

Mengjiao Tang (Sichuan University, P.R. China)

Yao Rong (Sichuan University, P.R. China)

Jie Zhou (Sichuan University, P.R. China)

TRACKING AND COUNTING MULTIPLE PEOPLE USING DISTRIBUTED SEISMIC SENSORS	1593
Thyagaraju Damarla (<i>US Army Research Laboratory, USA</i>)	
Marc Oispuu (<i>Fraunhofer FKIE, Germany</i>)	
Marek Schikora (<i>Fraunhofer FKIE, Germany</i>)	
Wolfgang Koch (<i>Fraunhofer FKIE, Germany</i>)	
OPTIMAL SAMPLE-BASED FUSION FOR DISTRIBUTED STATE ESTIMATION.....	1600
Jannik Steinbring (<i>Karlsruhe Institute of Technology (KIT), Germany</i>)	
Benjamin Noack (<i>Karlsruhe Institute of Technology (KIT), Germany</i>)	
Marc Reinhardt (<i>Karlsruhe Institute of Technology (KIT), Germany</i>)	
Uwe D. Hanebeck (<i>Karlsruhe Institute of Technology (KIT), Germany</i>)	
COMPUTATIONALLY EFFICIENT TARGET-NODE GEOMETRY SELECTION FOR TARGET TRACKING IN UWSNS	1608
Meiqin Liu (<i>Zhejiang University, P.R. China</i>)	
Qiang Zhang (<i>Zhejiang University, P.R. China</i>)	
Senlin Zhang (<i>Zhejiang University, P.R. China</i>)	
15:20 - 17:00	
Tracking II	
Room F	
Session Chair: Felix Govaers (<i>Fraunhofer FKIE / University of Bonn, Germany</i>)	
COMPENSATION OF NAVIGATION UNCERTAINTY FOR TARGET TRACKING ON A MOVING PLATFORM	1616
Erik Falmår Wilthil (<i>Norwegian University of Science and Technology, Norway</i>)	
Edmund Førland Brekke (<i>NTNU, Norway</i>)	
AN INTEGRATED CLOSED-FORM FUSION ALGORITHM FOR TDOA/AOA.....	1622
Zhang Xinghu (<i>DSO National Laboratories, Singapore</i>)	
Sharon Tan Sihong (<i>DSO National Laboratories, Singapore</i>)	
Toh Yew Hong (<i>DSO National Laboratories, Singapore</i>)	
ENHANCED APPROXIMATION OF LABELED MULTI-OBJECT DENSITY BASED ON CORRELATION ANALYSIS	1630
Wei Yi (<i>University of Electronic Science and Technology of China, P.R. China</i>)	
Suqi Li (<i>University of Electronic Science and Technology of China, P.R. China</i>)	
POINT GROUP ASSOCIATIONS FOR RADAR-BASED VEHICLE SELF-LOCALIZATION	1638
Klaudius Werber (<i>Daimler AG, Germany</i>)	
Jens Klappstein (<i>Daimler AG, Germany</i>)	
Jürgen Dickmann (<i>Daimler AG, Germany</i>)	
Christian Waldschmidt (<i>Ulm University, Germany</i>)	
15:20 - 17:00	
Signal Processing I	
Room G	
Session Chair: Syed Mohsen Naqvi (<i>Newcastle University UK, United Kingdom</i>)	
MOVING TARGET DETECTION IN MIMO RADAR WITH ASYNCHRONOUS DATA	1647
Jinghe Wang (<i>University of Electronic Science and Technology of China, P.R. China</i>)	
Wei Yi (<i>University of Electronic Science and Technology of China, P.R. China</i>)	
Lingjiang Kong (<i>University of Electronic Science and Technology of China, P.R. China</i>)	

COMPRESSED SENSING BASED JOINT DETECTION AND TRACKING FOR STAP RADAR	1653
<i>Jing Liu (Xi'an Jiaotong University, P.R. China)</i>	
<i>Yu Hu (Northwestern Polytechnical University, P.R. China)</i>	
<i>Yan Lin (Xi'an Jiaotong University, P.R. China)</i>	
<i>Yi Yang (Xi'an Jiaotong University, P.R. China)</i>	
<i>ZhanSheng Duan (Xi'an Jiaotong University, P.R. China)</i>	
POWER ALLOCATION STRATEGY FOR TARGET LOCALIZATION IN DISTRIBUTED MIMO RADAR SYSTEMS WITHOUT PREVIOUS POSITION ESTIMATION	1661
<i>Mingchi Xie (University of Electronic Science and Technology of China, P.R. China)</i>	
<i>Wei Yi (University of Electronic Science and Technology of China, P.R. China)</i>	
<i>Lingjiang Kong (University of Electronic Science and Technology of China (UESTC), P.R. China)</i>	
GMTI RADAR DATA ANALYSIS AND SIMULATION.....	1666
<i>Kaeye Dästner (Airbus Defence and Space, Germany)</i>	
<i>Bastian von Hassler zu Roseneckh-Köhler (Airbus Defence and Space, Germany)</i>	
<i>Felix Opitz (Airbus Defence and Space, Germany)</i>	
ON JOINT RANGE AND VELOCITY ESTIMATION IN DETECTION AND RANGING SENSORS	1674
<i>Hanna E. Nyqvist (Linköping University, Sweden)</i>	
<i>Gustaf Hendeby (Linköping University, Sweden)</i>	
<i>Fredrik Gustafsson (Linköping University, Sweden)</i>	
15:20 - 17:00	
Behavior Modeling	
Room H	
Session Chair: Sten F. Andler (University of Skövde, Sweden)	
ONLINE COMMUNITY DETECTION FOR FUSED SOCIAL NETWORK GRAPHS	1682
<i>Alexandra Chronopoulou (University of Illinois at Urbana-Champaign, USA)</i>	
<i>Rakesh Nagi (University of Illinois at Urbana-Champaign, USA)</i>	
HUMAN MOVING BEHAVIOR ESTIMATION FROM 3-AXIS ACCELEROMETER SIGNAL BY PARTICLE FILTER WITH SELF-ORGANIZING MAP BASED LIKELIHOOD	1687
<i>Norikazu Ikoma (Nippon Institute of Technology, Japan)</i>	
<i>Hiromu Hasegawa (MegaChips Corporation, Japan)</i>	
SENSOR FUSION FOR OCCUPANCY DETECTION AND ACTIVITY RECOGNITION USING TIME-OF-FLIGHT SENSORS.....	1695
<i>Tianna-Kaye Woodstock (Rensselaer Polytechnic Institute, USA)</i>	
<i>Richard J. Radke (Rensselaer Polytechnic Institute, USA)</i>	
<i>Arthur C. Sanderson (Rensselaer Polytechnic Institute, USA)</i>	
DATA FUSION AND ASSESSMENT FOR MANEUVER PREDICTION INCLUDING DRIVING SITUATION AND DRIVER BEHAVIOR.....	1702
<i>Veit Leonhardt (Chemnitz University of Technology, Germany)</i>	
<i>Timo Pech (Chemnitz University of Technology, Germany)</i>	
<i>Gerd Wanielik (Chemnitz University of Technology, Germany)</i>	
ADAPTIVE MODEL FUSION FOR WEARABLE SENSORS BASED HUMAN ACTIVITY RECOGNITION	1709
<i>Heli Koskimäki (University of Oulu, Finland)</i>	
<i>Pekka Siirtola (University of Oulu, Finland)</i>	

Friday, July 8

10:30 - 12:10

SS16: Multimodal Image Processing and Fusion

Room A

Session Chair: Erick Blasch (Air Force Research Lab, USA)

HIGH-RESOLUTION HYPERSPECTRAL IMAGE FUSION BASED ON SPECTRAL UNMIXING.....1714

Qi Wei (University of Cambridge, United Kingdom)

Simon Godsill (University of Cambridge, United Kingdom)

José M. Bioucas-Dias (Universidade de Lisboa, Portugal)

Nicolas Dobigeon (Université de Toulouse, France)

Jean-Yves Tourneret (Université de Toulouse, France)

IMPROVING 3D FACE GEOMETRY BY ADAPTING RECONSTRUCTION FROM STEREO IMAGE PAIR TO GENERIC MORPHABLE MODEL.....1720

Hardik Jain (Technical University, Berlin, India)

Olaf Hellwich (Technical University, Berlin, Germany)

RS Anand (IIT Roorkee, India)

DYNAMIC BASELINE STEREO VISION-BASED COOPERATIVE TARGET TRACKING1728

Aamir Ahmad (Max Planck Institute for Biological Cybernetics, Germany)

Eugen Ruff (Max Planck Institute for Biological Cybernetics, Germany)

Heinrich H. Bülow (Max Planck Institute for Biological Cybernetics, Germany)

IRIS TRACKING USING EXTENDED OBJECT TRACKING.....1735

Patrick Dunau (System Technologies and Image Exploitation (IOSB), Germany)

Jürgen Beyerer (Karlsruhe Institute of Technology, Germany)

MOTION SEGMENTATION AND APPEARANCE CHANGE DETECTION BASED 2D HAND TRACKING1743

Jan Hendrik Hammer (Karlsruhe Institute of Technology, Germany)

Michael Voit (Fraunhofer Institute of Optronics, Germany)

Jürgen Beyerer (Fraunhofer Institute of Optronics, Germany)

10:30 - 12:10

Computer Vision IV

Room B

Session Chair: Olga Isupova (University of Sheffield, United Kingdom)

TOWARDS SELF-CALIBRATING INERTIAL BODY MOTION CAPTURE.....1751

Bertram Taetz (University of Kaiserslautern, Germany)

Gabriele Bleser (University of Kaiserslautern, Germany)

Markus Miezal (University of Kaiserslautern, Germany)

RURAL SCENE PARSING AND ROAD BOUNDARY ESTIMATION BY FUSION

OF LIDAR POINTCLOUD AND EO IMAGES1760

Yechuan Yeo (DSO National Laboratories, Singapore)

Xuhong Xiao (DSO National Laboratories, Singapore)

Xinghu Zhang (DSO National Laboratories, Singapore)

HIGH-SPEED DISTRIBUTED CAMERA NETWORK BASED ON MESSAGE PASSING INTERFACE1768

Hyuno Kim (University of Tokyo, Japan)

Masatoshi Ishikawa (University of Tokyo, Japan)

VEHICLE POSE ESTIMATION IN CLUTTERED URBAN ENVIRONMENTS USING MULTILAYER ADAPTIVE MONTE CARLO LOCALIZATION	1774
<i>Jan Rohde (Robert Bosch GmbH, Germany)</i>	
<i>Inga Jatzkowski (Robert Bosch GmbH, Germany)</i>	
<i>Holger Mielenz (Robert Bosch GmbH, Germany)</i>	
<i>Johann Marius Zöllner (Research Center for Information Technology (FZI), Germany)</i>	
HIDDEN MARKOV MODEL-BASED OCCUPANCY GRID MAPS OF DYNAMIC ENVIRONMENTS	1780
<i>Matthias Rapp (Ulm University, Germany)</i>	
<i>Klaus Dietmayer (Ulm University, Germany)</i>	
<i>Markus Hahn (Daimler AG, Germany)</i>	
<i>Bharanidhar Duraisamy (Daimler AG, Germany)</i>	
<i>Jürgen Dickmann (Daimler AG, Germany)</i>	
10:30 - 12:10	
SS6: Directional Estimation	
Room C	
Session Chair: Darin Dunham (Lockheed Martin, USA)	
EXTENDED KALMAN FILTER WITH MANIFOLD STATE REPRESENTATION FOR NAVIGATING A MANEUVERABLE MELTING PROBE	1789
<i>Joachim Clemens (University of Bremen, Germany)</i>	
<i>Kerstin Schill (University of Bremen, Germany)</i>	
CYCLIC CRAMÉR-RAO-TYPE BOUNDS FOR PERIODIC PARAMETER ESTIMATION	1797
<i>Tirza Routtenberg (Ben-Gurion University of the Negev, Israel)</i>	
<i>Joseph Tabrikian (Ben-Gurion University of the Negev, Israel)</i>	
UNCERTAINTY PROPAGATION OF CORRELATED QUATERNION AND EUCLIDEAN STATES USING PARTIALLY-CONDITIONED GAUSSIAN MIXTURES.....	1805
<i>Jacob E. Darling (Missouri University of Science and Technology, USA)</i>	
<i>Kyle J. DeMars (Missouri University of Science and Technology, USA)</i>	
OPTIMAL QUANTIZATION OF CIRCULAR DISTRIBUTIONS	1813
<i>Igor Gilitschenski (Swiss Federal Institute of Technology (ETH) Zurich, Switzerland)</i>	
<i>Gerhard Kurz (Karlsruhe Institute of Technology (KIT), Germany)</i>	
<i>Uwe D. Hanebeck (Karlsruhe Institute of Technology (KIT), Germany)</i>	
<i>Roland Siegwart (Swiss Federal Institute of Technology (ETH) Zurich, Switzerland)</i>	
NONLINEAR PREDICTION FOR CIRCULAR FILTERING USING FOURIER SERIES	1821
<i>Florian Pfaff (Karlsruhe Institute of Technology (KIT), Germany)</i>	
<i>Gerhard Kurz (Karlsruhe Institute of Technology (KIT), Germany)</i>	
<i>Uwe D. Hanebeck (Karlsruhe Institute of Technology (KIT), Germany)</i>	
10:30 - 12:10	
SS11: Kalman Filter Based Nonlinear Estimation	
Room D	
Session Chair: Jannik Steinbring (Karlsruhe Institute of Technology (KIT), Germany)	
FOURIER-HERMITE SERIES FOR STOCHASTIC STABILITY ANALYSIS OF NON-LINEAR KALMAN FILTERS	1829
<i>Toni Karvonen (Aalto University, Finland)</i>	
<i>Simo Särkkä (Aalto University, Finland)</i>	

CHARACTERISTIC FUNCTION BASED PERFORMANCE INDEX FOR BAYESIAN FILTERS	1837
<i>Ondřej Straka (University of West Bohemia, Czech Republic)</i>	
<i>Jindřich Duník (University of West Bohemia, Czech Republic)</i>	
SURVEY OF NONLINEARITY AND NON-GAUSSIANITY MEASURES FOR STATE ESTIMATION.....	1845
<i>J. Dunkýk (Univ. of West Bohemia, Czech Republic)</i>	
<i>O. Straka (Univ. of West Bohemia, Czech Republic)</i>	
<i>Mahendra Mallick (Independent Consultant, USA)</i>	
<i>Erik Blasch (Air Force Research Laboratory, USA)</i>	
A SYSTEMATIC APPROACH FOR KALMAN-TYPE FILTERING WITH NON-GAUSSIAN NOISES.....	1853
<i>Matti Raitoharju (Tampere University of Technology, Finland)</i>	
<i>Robert Piché (Tampere University of Technology, Finland)</i>	
<i>Henri Nurminen (Tampere University of Technology, Finland)</i>	
SIGMA-POINT FILTERING FOR NONLINEAR SYSTEMS WITH NON-ADDITIVE HEAVY-TAILED NOISE.....	1859
<i>Filip Tronarp (Aalto University, Finland)</i>	
<i>Roland Hostettler (Aalto University, Finland)</i>	
<i>Simo Särkkä (Aalto University, Finland)</i>	
10:30 - 12:10	
SS17: Maritime Domain Awareness	
Room E	
Session Chair: Thomas Kausch (ATLAS Elektronik GmbH, Germany)	
AIS RECEPTION CHARACTERISATION FOR AIS ON/OFF ANOMALY DETECTION	1867
<i>Fabio Mazzarella (European Commission - Joint Research Centre (JRC), Italy)</i>	
<i>Michele Vespe (European Commission - Joint Research Centre (JRC), Italy)</i>	
<i>Dario Tarchi (European Commission - Joint Research Centre (JRC), Italy)</i>	
<i>Giuseppe Aulicino (Italian Coast Guard Headquarters, Italy)</i>	
<i>Antonio Vollero (Italian Coast Guard Headquarters, Italy)</i>	
AIS EVENT-BASED KNOWLEDGE DISCOVERY FOR MARITIME SITUATIONAL AWARENESS	1874
<i>Marlene Alvarez (European Commission - Joint Research Centre (JRC), Italy)</i>	
<i>Virginia Fernandez Arguedas (European Commission - Joint Research Centre (JRC), Italy)</i>	
<i>Vincenzo Gammieri (European Commission - Joint Research Centre (JRC), Italy)</i>	
<i>Fabio Mazzarella (European Commission - Joint Research Centre (JRC), Italy)</i>	
<i>Michele Vespe (European Commission - Joint Research Centre (JRC), Italy)</i>	
<i>Giuseppe Aulicino (Italian Coast Guard Headquarters, Italy)</i>	
<i>Antonio Vollero (Italian Coast Guard Headquarters, Italy)</i>	
MULTI-SENSOR MARITIME MONITORING FOR THE CANADIAN ARCTIC: CASE STUDIES	1881
<i>Giulia Battistello (Fraunhofer FKIE, Germany)</i>	
<i>Javier Gonzalez (Fraunhofer FKIE, Germany)</i>	
<i>Martin Ulmke (Fraunhofer FKIE, Germany)</i>	
<i>Wolfgang Koch (Fraunhofer FKIE, Germany)</i>	
<i>Camilla Mohrdieck (Airbus Defence & Space, Germany)</i>	
DATA FUSION IN A MULTISTATIC ACTIVE SONAR SYSTEM FOR HARBOUR PROTECTION.....	1889
<i>Paula Berkel (Atlas Elektronik GmbH, Germany)</i>	
<i>Stephan Benen (Atlas Elektronik GmbH, Germany)</i>	
PERFORMANCE PREDICTION OF TRACKING SENSORS FOR SURFACE VEHICLE COLLISION AVOIDANCE.....	1894
<i>Andreas Lindahl Flåten (Norwegian University of Science and Technology, Norway)</i>	
<i>Edmund F. Brekke (Norwegian University of Science and Technology, Norway)</i>	

10:30 - 12:10

Signal Processing II

Room F

Session Chair: Simon Maskell (QinetiQ, United Kingdom)

BEARINGS-ONLY TMA FROM ELECTROMAGNETIC AND ACOUSTIC WAVES 1901

Nabil Amirach (Université de Toulon, France)

Claude Jauffret (Université de Toulon, France)

Annie-Claude Pérez (Université de Toulon, France)

Dann Laneuville (DCNS-RESEARCH/CEMIS, France)

TOWARDS 1-COMPONENT BRAGG-GRATING BASED SHAPE SENSING 1909

Hendrikje Pauer (Karlsruhe Institute of Technology, Germany)

Manuel Rosenberger (University of Applied Sciences Aschaffenburg, Germany)

Maiko Girschikofsky (University of Applied Sciences Aschaffenburg, Germany)

Ralf Hellmann (University of Applied Sciences Aschaffenburg, Germany)

Wilderich Tuschmann (Karlsruhe Institute of Technology, Germany)

Heinz Wörn (Karlsruhe Institute of Technology, Germany)

**ACTIVE SAMPLING EXPLOITING DETECTOR RESPONSE PATTERN
FOR EFFICIENT TARGET DETECTION 1916**

Wentao Luan (University of Maryland College Park, USA)

Ren Mao (University of Maryland College Park, USA)

John S. Baras (University of Maryland College Park, USA)

**RECURSIVE BAYESIAN ESTIMATION OF NFOV TARGET
USING DIFFRACTION AND REFLECTION SIGNALS 1923**

Kuya Takami (Virginia Polytechnic Institute and State University, USA)

Hangxin Liu (Virginia Polytechnic Institute and State University, USA)

Tomonari Furukawa (Virginia Polytechnic Institute and State University, USA)

Makoto Kumon (Kumamoto University, Japan)

Gamini Dissanayake (University of Technology-Sydney, Australia)

**CONCURRENT LOCALIZATION OF SOUND SOURCES AND
DUAL-MICROPHONE SUB-ARRAYS USING TOFS 1931**

Mojtaba Farmani (Aalborg University, Denmark)

Richard Heusdens (Delft University of Technology, The Netherlands)

Michael Syskind Pedersen (Oticon A/S, Denmark)

Zheng-Hua Tan (Aalborg University, Denmark)

Jesper Jensen (Aalborg University, Denmark)

10:30 - 12:10

Nonlinear Filtering III

Room G

Session Chair: Allan De Freitas (University of Sheffield, United Kingdom)

STATE ESTIMATION AND FUSION OVER LONG-HAUL LINKS UNDER LINEAR CONSTRAINTS 1937

Qiang Liu (Oak Ridge National Laboratory, USA)

Nageswara S. V. Rao (Oak Ridge National Laboratory, USA)

**STATE ESTIMATION CONSIDERING NEGATIVE INFORMATION WITH SWITCHING KALMAN
AND ELLIPSOIDAL FILTERING 1945**

Benjamin Noack (Karlsruhe Institute of Technology (KIT), Germany)

Florian Pfaff (Karlsruhe Institute of Technology (KIT), Germany)

Marcus Baum (University of Göttingen, Germany)

Uwe D. Hanebeck (Karlsruhe Institute of Technology (KIT), Germany)

IMPROVEMENTS FOR SPARSE GRID TILES (STILE) FILTER	1953
Carolyn Kalender (<i>MBDA Germany, Germany</i>)	
Jakob Andres (<i>MBDA Germany, Germany</i>)	
POINT-BASED PATH PREDICTION FROM POLAR HISTOGRAMS	1961
Pasquale Coscia (<i>Seconda Università degli Studi di Napoli, Italy</i>)	
Francesco Castaldo (<i>Seconda Università degli Studi di Napoli, Italy</i>)	
Francesco A.N. Palmieri (<i>Seconda Università degli Studi di Napoli, Italy</i>)	
Lamberto Ballan (<i>Stanford University, USA</i>)	
Alexandre Alahi (<i>Stanford University, USA</i>)	
Silvio Savarese (<i>Stanford University, USA</i>)	
A TOTAL LEAST-SQUARES ESTIMATOR FOR POWER-BEARING-TDOA TARGET MOTION ANALYSIS	1968
Ji-An Luo (<i>Hangzhou Dianzi University, P.R. China</i>)	
Han Shen-Tu (<i>Hangzhou Dianzi University, P.R. China</i>)	
Yun-Fei Guo (<i>Hangzhou Dianzi University, P.R. China</i>)	
Dong-Liang Peng (<i>Hangzhou Dianzi University, P.R. China</i>)	
An-Ke Xue (<i>Hangzhou Dianzi University, P.R. China</i>)	
10:30 - 12:10	
Fusion Application	
Room H	
Session Chair: Martin Ulmke (<i>Fraunhofer FKIE, Germany</i>)	
TRAFFIC STATE ESTIMATION WITH BAYESIAN NETWORKS AT EXTREMELY LOW V2X PENETRATION RATES	1975
Marek Junghans (<i>German Aerospace Center (DLR), Germany</i>)	
Andreas Leich (<i>German Aerospace Center (DLR), Germany</i>)	
REAL-TIME FORECASTING OF AN EPIDEMIC OUTBREAK: EBOLA 2014/2015 CASE STUDY	1983
Branko Ristic (<i>RMIT University, Australia</i>)	
Peter Dawson (<i>Defence Science and Technology Group, Australia</i>)	
A PUBLIC KEY COMPRESSION METHOD FOR FULLY HOMOMORPHIC ENCRYPTION USING GENETIC ALGORITHMS	1991
Joffre Gavinho Filho (<i>Federal University of Rio de Janeiro, Brazil</i>)	
Gabriel P. Silva (<i>Federal University of Rio de Janeiro, Brazil</i>)	
Claudio Miceli (<i>Federal University of Rio de Janeiro, Brazil</i>)	
POST PROCESSING OF LASER SCANNER MEASUREMENTS FOR TESTING ADVANCED DRIVER ASSISTANCE SYSTEMS	1999
Jan Erik Stellet (<i>Robert Bosch GmbH, Germany</i>)	
Leopold Walkling (<i>BMW Group, Germany</i>)	
J. Marius Zöllner (<i>Research Center for Information Technology (FZI), Germany</i>)	
EYE REGION BASED MULTIBIOMETRIC FUSION TO MITIGATE THE EFFECTS OF BODY WEIGHT VARIATIONS IN FACE RECOGNITION.....	2007
Pankaj Shivdayal Wasnik (<i>Norwegian University of Science and Technology, Norway</i>)	
Kiran B. Raja (<i>Norwegian University of Science and Technology, Norway</i>)	
R. RagHAVENDRA (<i>Norwegian University of Science and Technology, Norway</i>)	
Christoph Busch (<i>Norwegian University of Science and Technology, Norway</i>)	

13:10 - 14:50

SS4: Homotopy Methods for Progressive Bayesian Estimation

Room A

Session Chair: Fred E Daum (Raytheon, USA)

A MULTILEVEL HOMOTOPY MCMC SEQUENTIAL MONTE CARLO FILTER

FOR MULTI-TARGET TRACKING 2015

Kai Kang (University of Tennessee, USA)

Vasileios Maroulas (University of Tennessee, USA)

Ioannis D. Schizas (University of Texas, USA)

Erik Blasch (Air Force Research Lab, USA)

FAST PARTICLE FLOW PARTICLE FILTERS VIA CLUSTERING 2022

Yunpeng Li (McGill University, Canada)

Mark Coates (McGill University, Canada)

PROGRESSIVE BAYESIAN ESTIMATION WITH DETERMINISTIC PARTICLES..... 2028

Uwe D. Hanebeck (Karlsruhe Institute of Technology (KIT), Germany)

Martin Pander (Karlsruhe Institute of Technology (KIT), Germany)

ADAPTIVE STEP SIZE APPROACH TO HOMOTOPY-BASED

PARTICLE FILTERING BAYESIAN UPDATE 2035

Shozo Mori (Systems & Technology Research, USA)

Fred E Daum (Raytheon Company, USA)

Joel Douglas (Systems & Technology Research, USA)

PROGRESSIVE GAUSSIAN FILTER USING IMPORTANCE SAMPLING AND PARTICLE FLOW 2043

Christof Chlebek (Karlsruhe Institute of Technology (KIT), Germany)

Jannik Steinbring (Karlsruhe Institute of Technology (KIT), Germany)

Uwe D. Hanebeck (Karlsruhe Institute of Technology (KIT), Germany)

13:10 - 14:50

Sensor Management

Room B

Session Chair: Florian Pfaff (Karlsruhe Institute of Technology (KIT), Germany)

SENSOR MANAGEMENT USING EXPECTED RISK REDUCTION APPROACH 2050

Marcos Eduardo Gomes Borges (Centrale Lille, France)

Dominique Maltese (Safran Electronics & Defense, France)

Philippe Vanheeghe (Centrale Lille, France)

Genevieve Sella (Safran Electronics & Defense, France)

Emmanuel Duflos (Centrale Lille, France)

MULTI-SENSOR CONTROL FOR MULTI-TARGET TRACKING

USING CAUCHY-SCHWARZ DIVERGENCE 2059

Meng Jiang (University of Electronic Science and Technology of China, P.R. China)

Wei Yi (University of Electronic Science and Technology of China, P.R. China)

Lingjiang Kong (University of Electronic Science and Technology of China, P.R. China)

IMPROVED CONFLICT RESOLUTION METHOD FOR UNMANNED AIRCRAFT SENSE-AND-AVOID 2067

Vesselin P. Jilkov (University of New Orleans, USA)

Jeffrey H. Ledet (University of New Orleans, USA)

X. Rong Li (University of New Orleans, USA)

INFORMATION MEASURE FOR THE OPTIMAL CONTROL OF TARGET SEARCHING VIA THE GRID-BASED METHOD	2075
Yoonchang Sung (<i>Virginia Tech, USA</i>)	
Tomonari Furukawa (<i>Virginia Tech, USA</i>)	
13:10 - 14:50	
SS6: Directional Estimation (Continued)	
Room C	
Session Chair: Gerhard Kurz (<i>Karlsruhe Institute of Technology (KIT), Germany</i>)	
DIRECTIONAL DISTRIBUTIONS IN TRACKING OF SPACE DEBRIS	2081
John T Kent (<i>University of Leeds, United Kingdom</i>)	
Islam Hussein (<i>Applied Defense Solutions, USA</i>)	
Moriba K Jah (<i>The University of Arizona, USA</i>)	
KULLBACK-LEIBLER DIVERGENCE AND MOMENT MATCHING FOR HYPERSPHERICAL PROBABILITY DISTRIBUTIONS	2087
Gerhard Kurz (<i>Karlsruhe Institute of Technology (KIT), Germany</i>)	
Florian Pfaff (<i>Karlsruhe Institute of Technology (KIT), Germany</i>)	
Uwe D. Hanebeck (<i>Karlsruhe Institute of Technology (KIT), Germany</i>)	
A MODEL-BASED ANGLE UNWRAPPER: APPLICATION TO THE GNSS-R INTERFERENCE PATTERN TECHNIQUE	2095
Jean-Christophe Kucwaj (<i>Université du Littoral Côte d'Opale, France</i>)	
Georges Stienne (<i>Université du Littoral Côte d'Opale, France</i>)	
Serge Reboul (<i>Université du Littoral Côte d'Opale, France</i>)	
Jean-Bernard Choquel (<i>Université du Littoral Côte d'Opale, France</i>)	
Mohammed Benjelloun (<i>Université du Littoral Côte d'Opale, France</i>)	
COMPARISON OF NONLINEAR ATTITUDE FUSION FILTERS.....	2101
Thomas Braud (<i>IPAL, Singapore</i>)	
Nizar Ouarti (<i>IPAL, Singapore</i>)	
MOVING OBJECT TRACKING EMPLOYING RIGID BODY MOTION ON MATRIX LIE GROUPS	2109
Josip Ćesić (<i>University of Zagreb, Croatia</i>)	
Ivan Marković (<i>University of Zagreb , Croatia</i>)	
Ivan Petrović (<i>University of Zagreb, Croatia</i>)	
13:10 - 14:50	
SS10: Multi-Level Fusion: Bridging the Gap Between High and Low Level Fusion	
Room D	
Session Chair: Lauro Snidaro (<i>University of Udine, Italy</i>)	
A PROCESS FOR HUMAN-AIDED MULTI-ENTITY BAYESIAN NETWORKS LEARNING IN PREDICTIVE SITUATION AWARENESS	2116
Cheol Young Park (<i>George Mason University, USA</i>)	
Kathryn Blackmond Laskey (<i>George Mason University, USA</i>)	
Paulo C.G. Costa (<i>George Mason University, USA</i>)	
Shou Matsumoto (<i>George Mason University, USA</i>)	
WHAT'S IN A MESSAGE? EXPLORING DIMENSIONS OF TRUST IN REPORTED INFORMATION	2125
Valentina Dragos (<i>ONERA, France</i>)	
Kellyn Rein (<i>Fraunhofer FKIE, Germany</i>)	

CONSIDERATIONS FOR ENHANCING SITUATION ASSESSMENT THROUGH MULTI-LEVEL FUSION OF HARD AND SOFT DATA	2133
<i>Jesus Garcia (Universidad Carlos III de Madrid, Spain)</i>	
<i>Kellyn Rein (Fraunhofer FKIE, Germany)</i>	
<i>Joachim Biermann (Fraunhofer FKIE, Germany)</i>	
<i>Ksawery Kren (OBR CTM S.A., Poland)</i>	
<i>Lauro Snidaro (University of Udine, Italy)</i>	
REFINING RELATION IDENTIFICATION BY COMBINING SOFT AND SENSOR DATA	2139
<i>Valentina Dragos (ONERA, France)</i>	
<i>Sylvain Gatepaille (Airbus Defence And Space, France)</i>	
<i>Xavier Lerouvreur (Airbus Defence And Space, France)</i>	
INFORMATION FUSION SYSTEM DESIGN SPACE CHARACTERIZATION BY DESIGN OF EXPERIMENTS	2147
<i>Ali K. Raz (Purdue University, USA)</i>	
<i>Daniel A. DeLaurentis (Purdue University, USA)</i>	
13:10 - 14:50	
SS15: Multistatic Tracking	
Room E	
Session Chair: David W Krout (University of Washington, USA)	
MARKOV DECISION PROCESS FOR SONOBUOY TRANSMISSION SCHEDULING	2155
<i>S. Suvorova (RMIT University, Australia)</i>	
<i>F. Fletcher (Defence Science and Technology Group, Australia)</i>	
<i>D. Angley (RMIT University, Australia)</i>	
<i>H. Gaetjens (Defence Science and Technology Group, Australia)</i>	
<i>S. Simakov (Defence Science and Technology Group, Australia)</i>	
<i>M. Morelande (RMIT University, Australia)</i>	
<i>B. Moran (RMIT University, Australia)</i>	
DOPPLER-ONLY TARGET MOTION ANALYSIS IN A HIGH DUTY CYCLE SONAR SYSTEM	2163
<i>Claude Jauffret (Université de Toulon, France)</i>	
<i>Annie-Claude Pérez (Université de Toulon, France)</i>	
<i>Pierre Blanc-Benon (THALES Underwater Systems, France)</i>	
<i>Hervé Tanguy (THALES Underwater Systems, France)</i>	
BAYESIAN MULTITARGET TRACKER FOR MULTISTATIC SONOBUOY SYSTEMS	2171
<i>B. Ristic (RMIT University, Australia)</i>	
<i>D. Angley (RMIT University, Australia)</i>	
<i>F. Fletcher (Defence Science and Technology Group, Australia)</i>	
<i>S. Simakov (Defence Science and Technology Group, Australia)</i>	
<i>H. Gaetjens (Defence Science and Technology Group, Australia)</i>	
<i>S. Suvorova (RMIT University, Australia)</i>	
<i>B. Moran (RMIT University, Australia)</i>	
CONSTRAINED ROBUST SUBMODULAR SENSOR SELECTION WITH APPLICATIONS TO MULTISTATIC SONAR ARRAYS	2179
<i>Thomas Powers (University of Washington, USA)</i>	
<i>Jeff Bilmes (University of Washington, USA)</i>	
<i>David W. Krout (University of Washington, USA)</i>	
<i>Les Atlas (University of Washington, USA)</i>	

A COGNITIVE ALGORITHM FOR RSS-BASED LOCALIZATION OF POSSIBLY MOVING NODES.....	2186
Francesco Bandiera (<i>University of Salento, Italy</i>)	
Luca Carlino (<i>University of Salento, Italy</i>)	
Angelo Coluccia (<i>University of Salento, Italy</i>)	
Giuseppe Ricci (<i>Universita' del Salento, Italy</i>)	

13:10 - 14:50

SS21: Information Fusion in Multi-Biometric Systems

Room H

Session Chair: Naser Damer (*Fraunhofer Institute for Computer Graphics Research (IGD), Germany*)

MULTI-BIOMETRIC CONTINUOUS AUTHENTICATION: A TRUST MODEL FOR AN ASYNCHRONOUS SYSTEM	2192
Naser Damer (<i>Fraunhofer Institute for Computer Graphics Research (IGD), Germany</i>)	
Fabian Maul (<i>Fraunhofer Institute for Computer Graphics Research (IGD), Germany</i>)	
Christoph Busch (<i>Hochschule Darmstadt, Germany</i>)	

WEIGHTED COMPARISON SCORE FUSION FOR ACCURATE VERIFICATION OF SURGICALLY ALTERED PERIOCULAR REGION	2200
Kiran B. Raja (<i>NTNU, Norway</i>)	
R. Raghavendra (<i>NTNU, Norway</i>)	
Christoph Busch (<i>NTNU, Norway</i>)	

DYNAMIC SCALE SELECTED LAPLACIAN DECOMPOSED FREQUENCY RESPONSE FOR CROSS-SMARTPHONE PERIOCULAR VERIFICATION IN VISIBLE SPECTRUM.....	2206
Kiran B. Raja (<i>NTNU, Norway</i>)	
R Raghavendra (<i>NTNU, Norway</i>)	
Christoph Busch (<i>NTNU, Norway</i>)	

A DSMT BASED SYSTEM FOR WRITER-INDEPENDENT HANDWRITTEN SIGNATURE VERIFICATION	2213
Nassim Abbas (<i>University of Science and Technology Houari Boumediene, Algeria</i>)	
Youcef Chibani (<i>University of Sciences and Technology Houari Boumediene, Algeria</i>)	
Bilal Hadjadj (<i>University of Science and Technology Houari Boumediene, Algeria</i>)	
Zayen Azzouz Omar (<i>University of Science and Technology Boumediene, Algeria</i>)	
Florentin Smarandache (<i>University of New Mexiko, USA</i>)	

ON COMPARISON SCORE FUSION OF DEEP AUTOENCODERS AND RELAXED COLLABORATIVE REPRESENTATION FOR SMARTPHONE BASED ACCURATE PERIOCULAR VERIFICATION.....	2221
R. Raghavendra (<i>Norwegian University of Science and Technology (NTNU), Norway</i>)	
Kiran B Raja (<i>Norwegian University of Science and Technology (NTNU), Norway</i>)	
Christoph Busch (<i>Norwegian University of Science and Technology (NTNU), Norway</i>)	

15:20 - 17:00

SS4: Homotopy Methods for Progressive Bayesian Estimation (Continued)

Room A

Session Chair: Martin Ulmke (*Fraunhofer FKIE, Germany*)

COMBINING LOG-HOMOTOPY FLOW WITH TENSOR DECOMPOSITION BASED SOLUTION FOR FOKKER-PLANCK EQUATION	2229
Muhammad Altamash Khan (<i>Fraunhofer FKIE, Germany</i>)	
Martin Ulmke (<i>Fraunhofer FKIE, Germany</i>)	
Bruno Demissie (<i>Fraunhofer FKIE, Germany</i>)	
Felix Govaers (<i>Fraunhofer FKIE, Germany</i>)	
Wolfgang Koch (<i>Fraunhofer FKIE, Germany</i>)	

SEVEN DUBIOUS METHODS TO COMPUTE OPTIMAL Q FOR BAYESIAN STOCHASTIC PARTICLE FLOW	2237
<i>Fred Daum (Raytheon, USA)</i>	
15:20 - 17:00	
SS6: Directional Estimation (Continued)	
Room C	
Session Chair: Igor Gilitschenski (ETH Zürich, Switzerland)	
ON WRAPPING THE KALMAN FILTER AND ESTIMATING WITH THE SO(2) GROUP	2245
<i>Ivan Marković (University of Zagreb , Croatia)</i>	
<i>Josip Česić (University of Zagreb, Croatia)</i>	
<i>Ivan Petrović (University of Zagreb, Croatia)</i>	
15:20 - 17:00	
SS3: Context-Based Information Fusion	
Room D	
Session Chair: Jesús Garcia (Universidad Carlos III de Madrid, Spain)	
QUALITY-OF-SERVICE METRICS FOR EVALUATING SENSOR FUSION SYSTEMS WITHOUT GROUND TRUTH.....	2251
<i>Jesús Garcia (Universidad Carlos III de Madrid, Spain)</i>	
<i>Álvaro Luis (Universidad Carlos III de Madrid, Spain)</i>	
<i>José M. Molina (Universidad Carlos III de Madrid, Spain)</i>	
CONTEXT-ENHANCED INFORMATION FUSION FOR TRACKING APPLICATIONS	2259
<i>Daniel Arias Medina (German Aerospace Center (DLR), Germany)</i>	
<i>Jesús Garcia (Universidad Carlos III de Madrid, Spain)</i>	
<i>Michailas Romanovas (German Aerospace Center (DLR), Germany)</i>	
<i>Ralf Ziebold (German Aerospace Center (DLR), Germany)</i>	
<i>Manuel Schwaab (Hahn-Schickard-Gesellschaft Institute of Microsystems and Information Technology, Germany)</i>	
EVALUATION OF EFFICIENCY OF TORRENTIAL PROTECTIVE STRUCTURES WITH NEW BF-TOPSIS METHODS	2267
<i>Simon Carladous (UR ETGR, France)</i>	
<i>Jean-Marc Tacnet (UR ETGR, France)</i>	
<i>Jean Dezert (ONERA, France)</i>	
<i>Deqiang Han (Xi'an Jiaotong Univ., P.R. China)</i>	
<i>Mireille Batton-Hubert (ENSMSE-DEMO, France)</i>	
15:20 - 17:00	
SS15: Multistatic Tracking (Continued)	
Room E	
Session Chair: David W Krout (University of Washington, USA)	
EVALUATION OF GSM PASSIVE RADAR DATA AND ITS USE IN MULTISTATIC TRACKING	2275
<i>Martina Broetje (Fraunhofer FKIE, Germany)</i>	
<i>Benjamin Knoedler (Fraunhofer FKIE, Germany)</i>	
<i>Wolfgang Koch (Fraunhofer FKIE, Germany)</i>	
OPTIMAL SENSOR PLACEMENT FOR DOPPLER-ONLY TARGET TRACKING: 1D TARGET MOTION CASE.....	2283
<i>Süleyman Ayazgök (TÜBİTAK BİLGEM İLTAREN, Turkey)</i>	
<i>Umut Orguner (Middle East Technical University, Turkey)</i>	

THE VARIABLE STRUCTURE MULTIPLE MODEL GM-PHD FILTER BASED ON LIKELY-MODEL SET ALGORITHM	2289
<i>Peng Dong (Shanghai Jiao Tong University, P.R. China)</i>	
<i>Zhongliang Jing (Shanghai Jiao Tong University, P.R. China)</i>	
<i>Minzhe Li (Shanghai Jiaotong University, P.R. China)</i>	
<i>Han Pan (Shanghai Jiao Tong University, P.R. China)</i>	
15:20 - 17:00	
SS1: Intelligent Information Fusion	
Room H	
Session Chair: Tiancheng Li (University of Salamanca, Spain)	
BAYESIAN HUMAN INTENTION INFERENCE THROUGH MULTIPLE MODEL FILTERING WITH GAZE-BASED PRIORS	2296
<i>Harish chaandar Ravichandar (University of Connecticut, USA)</i>	
<i>Avnish Kumar (University of Connecticut, USA)</i>	
<i>Ashwin Dani (University of Connecticut, USA)</i>	
A SPARSE APPROACH TO FAULT SEVERITY CLASSIFICATION FOR GEARBOX MONITORING	2303
<i>Chuang Sun (Case Western Reserve University, USA)</i>	
<i>Peng Wang (Case Western Reserve University, USA)</i>	
<i>Ruqiang Yan (Case Western Reserve University, USA)</i>	
<i>Robert X. Gao (Case Western Reserve University, USA)</i>	
MEAP: APPROXIMATE OPTIMAL ESTIMATE EXTRACTION FOR THE SMC-PHD FILTER	2309
<i>Tiancheng Li (University of Salamanca, Spain)</i>	
<i>Juan M. Corchado (University of Salamanca, Spain)</i>	
<i>Jesús Garcia (Universidad Carlos III de Madrid, Spain)</i>	
<i>Javier Bajo (Technical University of Madrid, Spain)</i>	
GYRO-AIDED VISUAL TRACKING USING ITERATIVE EARTH MOVER'S DISTANCE	2317
<i>Gang Yao (University of Connecticut, USA)</i>	
<i>Michael Williams (University of Connecticut, USA)</i>	
<i>Ashwin Dani (University of Connecticut, USA)</i>	

AUTHOR INDEX