

From the Editor-in-Chief 1521

PAPERS

Tightly Coupled Positioning and Multipath Radio Channel Tracking *A. Mannesson, M. A. Yaqoob, B. Bernhardsson, & F. Tufvesson* 1522

Passive Tracking in Heavy Clutter With Sensor Location Uncertainty *Y. Guo, R. Tharmarasa, S. Rajan, T. L. Song, & T. Kirubarajan* 1536

Analysis and Design of a Tilted Rotor Hexacopter for Fault Tolerance *J. I. Giribet, R. S. Sánchez-Peña, & A. S. Ghersin* 1555

Along-Track Resolution Enhancement for Bistatic Imaging in Burst-Mode Operation *V. Kubica, X. Neyt, & H. Griffiths* 1568

Fixed-Time Rendezvous Control of Spacecraft With a Tumbling Target Under Loss of Actuator Effectiveness .. *B. Jiang, Q. Hu, & M. I. Friswell* 1576

Mismatch Filter Design via Convex Optimization *P. J. Kajenski* 1587

Phase Adjustment for Polarimetric ISAR with Compressive Sensing *M. Wu, L. Zhang, X.-G. Xia, & M.-D. Xing* 1592

Distance Measuring Equipment Interference Suppression Based on Parametric Estimation and Wavelet-Packet Transformation for Global Navigation Satellite Systems *R. Wu, W. Wang, L. Li, D. Lu, & L. Wang* 1607

Radar Odometry with Recursive-RANSAC *E. B. Quist, P. C. Niedfeldt, & R. W. Beard* 1618

Three-Stage Filter for Position Estimation Using Pseudorange Measurements *T. A. Johansen, T. I. Fossen, & G. C. Goodwin* 1631

Stability Improvement of Isolated Multiple-Output DC/DC Converter Using Coupled Inductors *E. Sanchis-Kilders, A. Ferreres, J. L. Gasent-Blesa, E. Maset, V. Esteve, J. Jordán, & J. B. Ejea* 1644

Multisensor-Multitarget Bearing-Only Sensor Registration *E. Taghavi, R. Tharmarasa, T. Kirubarajan, & M. McDonald* 1654

Observability: Range-only vs. Bearings-only Target Motion Analysis for a Leg-by-Leg Observer's Trajectory *D. Pillon, A.-C. Pérez-Pignol, & C. Jauffret* 1667

On Implementing 2D Rectangular Assignment Algorithms *D. F. Crouse* 1679

Optimization-Based Alignment for Strapdown Inertial Navigation System: Comparison and Extension *L. Chang, J. Li, & K. Li* 1697

Performance Analysis of AFDX Switch for Space Onboard Data Networks *C. Suthaputchakun, Z. Sun, C. Kavadias, & P. Ricco* 1714

Drogue Dynamic Model Under Bow Wave in Probe-and-Drogue Refueling *Z.-B. Wei, X. Dai, Q. Quan, & K.-Y. Cai* 1728

Weak Radar Signal Detection Based on Variable Band Selection *J.-W. Shin, K.-H. Song, K.-S. Yoon, & H.-N. Kim* 1743

A Sum-of-Squares Approach to GNSS Spoofing Detection *D. Borio & C. Gioia* 1756

Tracking With Asynchronous Passive Multisensor Systems *I. Klein & Y. Bar-Shalom* 1769

Error Analysis of Analytical Coarse Alignment Formulations for Stationary SINS *F. O. Silva, E. M. Hemerly, & W. C. L. Filho* 1777

Coherent Radar Processing in Sea Clutter Environments, Part 1: Modelling and Partially Adaptive STAP Performance *M. K. McDonald & D. Cerutti-Maori* 1797

Coherent Radar Processing in Sea Clutter Environments, Part 2: Adaptive Normalised Matched Filter versus Adaptive Matched Filter Performance *M. K. McDonald & D. Cerutti-Maori* 1818

Multisensor CPHD Filter *S. Nannuru, S. Blouin, M. Coates, & M. Rabbat* 1834

Game Theoretic Distributed Waveform Design for Multistatic Radar Networks *A. Panoui, S. Lambrohan, & J. A. Chambers* 1855

Generalization of ANN-Based Aircraft Dynamics Identification Techniques into the Entire Flight Envelope *A. Roudbari & F. Saghafi* 1866

Exact Convex Relaxation for Optimal Flight of Aerodynamically Controlled Missiles *X. Liu, Z. Shen, & P. Lu* 1881

Dual Phase Consensus Algorithm for Distributed Sensor Management *K. Neema, S. V. Subramanian, & D. Delaurentis* 1893

Cooperative Space Object Tracking Using Space-Based Optical Sensors via Consensus-Based Filters *B. Jia, K. D. Pham, E. Blasch, D. Shen, Z. Wang, & G. Chen* 1908

Class-Specific Model Mixtures for the Classification of Acoustic Time Series *P. M. Baggenstoss, & B. F. Harrison* 1937

Design of OFDM Radar Pulses using Genetic Algorithm Based Techniques *G. Lellouch, A. K. Mishra, & M. Inggys* 1953

A Mixture Regularized Rao-Blackwellized Particle Filter for Terrain Positioning *A. Murangira, C. Musso, & K. Dahia* 1967

CORRESPONDENCE

Optimization and Analysis of PDAF with Bayesian Detection *L. Zheng, T. Zeng, Q. Liu, T. Long, & X. Wang* 1986

Direction-Finding Arrays of Directional Sensors for Randomly Located Sources *H. Gazzah, J. P. Delmas, & S. M. Jesus* 1995

Nonlinear Gaussian Mixture PHD Filter With an H_{∞} Criterion *W. Li & Y. Jia* 2004

Approximate Distribution of the Low-Rank Adaptive Normalized Matched Filter Test Statistic Under the Null Hypothesis *G. Ginolhac & P. Forster* 2016

ISAR Cross-Range Scaling via Joint Estimation of Rotation Center and Velocity *B.-S. Kang, J.-H. Bae, M.-S. Kang, E. Yang, & K.-T. Kim* 2023

Novel Suboptimal Filter via Higher Order Central Moments *X. Luo, Y. Jiao, W.-L. Chiou, & S. S.-T. Yau* 2030

Direction Finding with the Sensors' Gains Suffering Bayesian Uncertainty — Hybrid CRB and MAP Estimation *D. M. Kitave, T.-C. Lin, K. T. Wong, & Y. I. Wu* 2038

Fast Cross-Correlation Mitigation via Minimum Mean-Square Error Estimation Based on Matched Filter Outputs for Consecutive DSSS Signals *Y. Shen, Y. Wang, X. Yu, & S. W. Wu* 2044

Iterated Multiplicative Extended Kalman Filter for Attitude Estimation Using Vector Observations *L. Chang, B. Hu, & K. Li* 2053

Technical Areas and Editors 2061