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Recommendations; Fusion Techniques for Airborne and Spaceborne Identification of Objects; Distributed Fusion: Learning in Multi-Agent Systems for Time Critical Decision Making; Active Robotic Sensing as Decision Making with Statistical Methods
A New Genetic Algorithm for Global Optimization of Resources in Naval Warfare; Calculus of Variations and Data Fusion; Reliability in Multiple Hypotheses Testing and Identification Problems; Human Computer Interaction; Decision Support in Command and Control; Multimodal Input Fusion in Human-Computer Interaction; Spatio-Temporal Data Visualization and Analysis for Multi-Target Tracking; Systems and Architectures; Principles of Systems Engineering for Data Fusion Systems; A Taxonomy of Sensor Processing Architectures; Knowledge Fusion in the Scalable Infosphere
Multi-Agent Data and Information Fusion; Architecture Analysis and Demonstration of Distributed Data Fusion; Data Fusion Testbed for Recognized Maritime Picture; Comparisons of Track-Level Fusion Results with Tracklets Application Within a Simulation Environment; Data Fusion for Imagery; Multisensors and Contextual Information Fusion; Fusion of Two Imagery Classifiers; Application of Multi-Dimensional Discrete Transforms on Lie Groups for Image Processing; Application of Continuous Extension of DCT to FLIR Images
Neural Network-Based Fusion of Image and Non-Image Data for Surveillance and Tracking Applications; Super-Resolution of Tactical Surveillance and Tracking Data for Fusion of Images; Design of Fusion Architectures for Surveillance and Tracking Using Information Value Mappings; Intelligent Fusion of Visual, Radio and Heterogeneous Embedded Sensor Information Within Cooperative and Distributed Smart Spaces; Multimodal Cooperative Modulation Estimation and Terminal Location for Multisource Sensor Networks
Issues in Multicamera Dynamic Metadata Information Extraction and Interpretation for Ambient Intelligence; An Expert System for Surveillance Picture Understanding; Tracking and Sensor Fusion; Group Tracking; Robust Modification of the EM-Algorithm for Parametric Multitrajectory Estimation in Noise and Clutter; Non-Parametric Multi-Trajectory Estimation; Integrated Estimation and Guidance for Target Interception; An Adaptive, Variable Structure, Multiple Model Estimator; A Distributed Sensor Network for Real-Time Multisensor Surveillance Against Possible Terrorist Actions
Advantages and Drawbacks of Multisite Radar Systems

Sommario/riassunto

Data Fusion is an interdisciplinary technology domain. This work focuses on the mature phase of data fusion, namely the detection and identification/classification of phenomena being observed and exploitation of the related methods for Security-Related Civil Science and Technology (SST) applications.
