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Knowledge Base Applications to Adaptive Space-Time Processing, Volume 5: Knowledge-Based Tracker Rule Book.

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Abstract : The knowledge-based tracker provides the system's knowledge-based controller with: (1) a very accurate prediction of each target's location and kinematics for an ensuing

radar dwell, and (2) knowledge of the target's line-of-sight visibility, the competing clutter conditions, and interference at the predicted location so that the optimal radar parameters and space-time adaptive processing algorithm can be applied. The proactive knowledge-based tracker uses information from other sources such as digital terrain maps, radar clutter and interference maps, and target priority assessments to determine the nature of the threat, evaluate the local environment, anticipate the target's actions, and enhance the prediction of the target's location for the next radar observation. This report describes twenty-five potential rules for a knowledge-based tracking system.

Descriptors : *ALGORITHMS , *RADAR TRACKING , *KNOWLEDGE BASED SYSTEMS , *TARGET DETECTION , *TARGET POSITION INDICATORS , KINEMATICS , LINE OF SIGHT , INTERFERENCE , COMPUTER APPLICATIONS , RADAR CLUTTER

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