

Biometric Consortium 2005 Conference

Mr. John P. Baker

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Topic: *Fusion of Biometric Data with Quality Estimates via a Bayesian Belief Network*

Biography: Mr. Baker has expertise in electro optical infrared sensor systems, modeling and simulation, signal and image processing, and ballistic missile discrimination system development and assessment. He is one of the original architects and developers of the Johns Hopkins University, Applied Physics Laboratory (APL) high-fidelity IR seeker, IR discrimination, and radar-to-IR sensor data fusion simulation, known as BLAST, which is an integral component of APL's and the Navy's STANDARD MISSILE-3 six-degree-of-freedom simulation. Mr. Baker, as the technical lead of the STANDARD MISSILE-3 discrimination team, has enabled APL to develop and apply tools and expertise, and to critically contribute in ballistic missile discrimination system development and assessment within the context of the Aegis ballistic missile defense system. Recently, Mr. Baker has been involved in adapting algorithms developed for ballistic missile discrimination to multi-modal biometric fusion. He is the principal investigator for an APL Research and Development project devoted to this effort. Mr. Baker has an M.S. in Electrical Engineering from The Johns Hopkins University.