Dr. JAMES LLINAS
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Dr. Llinas brings over 25 years of experience in multisource information processing and data fusion technology to his research, teaching, and business development activities. He is an internationally-recognized expert in sensor, data, and information fusion, co-authored the first integrated book on Multisensor Data Fusion, and has lectured internationally for over 20 years on this topic. He was a Technical Advisor to the Defense Department's Joint Directors of Laboratories Data Fusion Group, a position he held for 15 years. His experience in applying this technology to different problem areas ranges from defense applications to non-defense applications to include intelligent transportation systems, medical diagnostics, and condition-based maintenance, among others. Current research activities related to the field of Information Fusion include funded programs in Automated Reasoning; Distributed, Cooperative Problem-Solving; Scientific Foundations of Data Correlation Techniques; Fuzzy Logic for Adaptive Correlation and Tracking, among several others. He has been a Consultant to the US Air Force Laboratory's Information Directorate and Sensors Directorate development of an integrated Fusion Technology Roadmap to guide future investments in, and applications of Data Fusion technology. Dr. Llinas is also one of a few Consultants to the National Security Agency involved with both architectural definition and technology assessments for the premier NSA Information Fusion program called Wargoddess. Dr. Llinas was also creator of and lead for the basic research work done on the USAF TENCAP program called "Project Correlation", and headed the effort to produce an Engineering Guideline for addressing data correlation problems for tactical broadcast systems and other defense applications. He has frequently provided high-level assessments of the state-of-the-art in Data Fusion, most recently to the Air Force Scientific Advisory Board in late 1999. Dr. Llinas has provided similar high-level guidance to international clients including most recently the Australian Defense Science and Technology Organization (DSTO), the Swedish and Norwegian Defense Research Establishments ("FOA" and "FFI") and also the Canadian Defense Research Establishment in Valcartier, Quebec, with prior experience in providing similar high-level guidance to the Ministry of Defense in Spain.

Dr. Llinas created the concept for and is now Director for the "Center for Multisource Information Fusion" located at the State University of New York at Buffalo. This first-of-its-kind, University-based research center is co-sponsored by a number of clients, including the Information and Sensors Directorates of the Air Force Research Laboratory, the National Security Agency, the Air Force Office of Scientific Research, the

Office of Naval Research, the Army's Communications and Electronics Command, Boeing, and the Calspan-UB Research Center. The Center has conducted research in a wide variety of areas applicable to the highly multidisciplinary field of Data Fusion, to include: Distributed Situational Estimation, Distributed Learning, Correlation Science, Adaptive Fusion Control Concepts, Cognitive Modeling of Intent, Human Trust in Automation, Aided, Adversarial Decision-Making, Distributed Data Fusion Issues and Techniques, among yet others.

Other research interests are currently focused on methods of sensor management and intelligent control, Hidden Markov Methods, and in NATO C^3 applications. Recent work also includes assessments of the use of intelligent, multi-media interfaces for data fusion applications.