

Robust Real Time Information Management of Remote Sensors

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Abstract: Architectures for distributed network systems, and the information management of those systems, will be discussed. In particular, the utilization of the Fawkes High Performance Computing Information Managements System will be examined for these architectures. The real time adaptation of these architectures to remote telescopic imagery data processed on distributed high performance computers will be presented.

Dr. Scott Spetka is a professor of computer science at the State University of New York Institute of Technology. He has worked on-site at the Air Force Research Laboratory Information Directorate since 1993. His work has been in the area of high performance computing for the past seven years. In the 1980s, he worked on developing LOCUS, one of the earliest distributed operating systems. He has a B.S. in mathematics from Denison University and a Ph.D. in computer science from UCLA.

Dr. George Ramseyer is a senior physicist the Information Directorate of the Air Force Research Laboratory. After one year with the Advanced Surface Science Branch of the Naval Research Laboratory, he joined the Electronics Laboratory of GE Aerospace, where he specialized in the characterizations of microwave and optoelectronic materials and devices. He joined the Reliability Physics Branch at the US Air Force's Rome Laboratory in Rome, NY in 1992, and in 1997 Dr. Ramseyer became a part of the newly formed Information Directorate of the Air Force Research Laboratory. He concentrates on new and developing information technologies utilizing high performance computing. Dr. Ramseyer received his BA and MA from Binghamton University, and in 1983 completed his PhD at Cornell University.