

Professor Louis Scharf



Louis Scharf received his Ph.D. from the University of Washington, Seattle. From 1971 to 1982 he served as Professor of Electrical Engineering and Statistics at CSU. From 1982 to 1985 he was Professor and Chairman of Electrical and Computer Engineering at the University of Rhode Island, Kingston. From 1985 to 2000 he was Professor of Electrical and Computer Engineering at the University of Colorado, Boulder. In January 2001, Professor Scharf rejoins Colorado State University as Professor of Electrical and Computer Engineering, and Statistics.

Professor Scharf has held several visiting positions here and abroad. He has developed particularly close ties with Ecole Supérieure d'Electricité (Gif-sur-Yvette), Ecole Nationale Supérieure des Télécommunications (Paris), and EURECOM (Nice). He is a recognized expert in statistical signal processing, as it applies to adaptive radar, sonar, and wireless communication. His most important contributions to date are to invariance theories for detection and estimation; matched and adaptive subspace detectors for radar, sonar, and data communication; and canonical decompositions for reduced dimensional filtering and quantizing. His current interests are in rapidly-adaptive receiver design for space-time signal processing in the wireless communication channel.

Professor Scharf is a Fellow of IEEE. He chairs the Fellow Committee for the IEEE Signal Processing Society, and serves on its Technical Committees for Theory and Methods and for Sensor Arrays and Multichannel Signal Processing. He has received numerous awards for his research contributions to statistical signal processing, including an IEEE Distinguished Lectureship, an IEEE Third Millennium Medal, and the Technical Achievement Award from the IEEE Signal Processing Society.