UMBC

AN HONORS UNIVERSITY IN MARYLAND

Electrical Engineering Faculty

Professors

Tulay Adali, Ph.D., North Carolina State University: Statistical signal processing, machine learning for signal processing, adaptive signal processing, biomedical data analysis, and communications

Gary Carter (Chair), M., Ph.D., Massachusetts Institute of Technology: Optical communications, non-linear optics, lasers, bio-photonics

Chein-I Chang, Ph.D., University of Maryland, College Park: Multispectral/hyper-spectral imaging, chemical/biological defense, automatic target recognition (ATR), computer-aided diagnosis for medical imaging, visual information systems and retrieval

Yung Jui (Ray) Chen, Ph.D., University of Pennsylvania: Optical networks, integrated optics and opto-electronic integrated circuits, device physics, ultra-fast optics and non-linear optics

Fow-Sen Choa, Ph.D., State University of New York, Buffalo: MOCVD growth, quantum cascade lasers, mid-IR and THz photonic devices, chip-scale integrated sensor systems, RF-photonic and optical switching devices

Anthony Johnson, Ph.D., City College of the City University of New York: Director of the Center for Advanced Studies in Photonics Research (CASPR); Ultra-fast optics, non-linear optics and ultra-fast photophysics of nano-structured materials

Curtis Menyuk, Ph.D., University of California, Los Angeles: Optical communications, non-linear optics, theoretical electromagnetics

Joel Morris, Ph.D., The Johns Hopkins University: Communication theory and statistical signal processing theory with applications in sensing, detection, estimation, and characterization, error correction codes, adaptive importance sampling for statistical performance assessment, joint time-frequency/time-scale analysis and presentations

Li Yan, *Professor*, Ph.D., University of Maryland, College Park; Ultra-fast optics, non-linear optics, solid-state and fiber lasers, optical communications

Associate Professors

Janet Rutledge, Ph.D., Georgia Institute of Technology: Modeling and Compensating for the effects of sensorineural hearing loss and other communication disorders

Professor of Practice

E.F. Charles LaBerge, Ph.D., UMBC: Coding theory, signal processing, communication system design, interface analysis, safety-critical avionics, system engineering