Sanjay K Mehta

Sanjay K Mehta, Ph.D.

Biography

Dr. Sanjay K. Mehta is a senior electrical engineer and technical program manager, specializing in signal processing, in the Sensors and Sonar Systems Department at the Naval Undersea Warfare Center Division, Newport. He has been a technical/scientific leader and key contributor in the areas of active and passive Anti-Submarine Warfare (ASW), Surface Ship Torpedo Defense (SSTD)., and Weapons Guidance and Control. He holds a B.S., M.S., and Ph.D. in Electrical Engineering from the University of Rochester.

Dr. Mehta is currently lead for the Target Acquisition Group (TAG) subsystem of the Torpedo Warning System (TWS). TWS is a Surface Ship active-passive torpedo detection, classification, and localization (DCL) system that provides automatic alerts and targeting solution against incoming weapons. The TAG subsystem consists of all wet and hardware, all electronics and power supply cabinets, and DCL processing.

Dr. Mehta was the technical/scientific lead for the Counter Torpedo DCL (CTDCL) project sponsored by the Lottoral ASW Future Naval Capacity (FNC) and Platform Protection FNC Office of Naval Research (ONR) programs. He was responsible for the development of an active and passive baseline processing string for automatic Torpedo DCL system. The project culminated in an at-sea demonstration of the automatic DCL system against complex salvoes of four incoming weapons. Responsibility also included identifying the shortfalls of the ONR system and developing and transitioning advanced sensors and processing algorithms to the Department of the Navy Undersea Defensive Warfare System program Office for the TWS.

Dr. Mehta was principal investigator for the Homing System task for the High-Speed Supercavitating Weapon program. His efforts were critical in demonstrating the feasibility of high-speed homing. His research efforts led to the design of an array-cone cavitator and a corresponding Homing Simulation System.

Dr. Mehta has extensive experience working on multinational SSTD programs and is a recognized expert in his field.