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Neelam Gupta is a senior research scientist in the Sensors and Electron Devices Directorate of the Army Research Laboratory. She holds a Ph.D. in physics. She has developed a number of hyperspectral imagers from UV to long wave IR using acousto-optic tunable filters (AOTFs) as well as a dual band infrared hyperspectral imager using diffractive optics. She has extensive experience in electro-optics, guided wave optics, fiber-optics, acousto-optics and optical sensors. Her ongoing research is in the area of development and application of AOTFs for hyperspectral and polarization imaging as well as for the detection of chemical and biological agents. She has wide research experiences including modeling of guided wave components on a parallel supercomputer, designing a fiber-optic delay line for simulation of radar returns, designing a novel III-V integrated optic neural device, conducting experiments in optical control of phased array antennas using guided wave components in a heterodyne setup, designing a new target/foilage discriminating active optical sensor, development of laser diodes and detectors, etc. She has authored over 120 technical papers and reports and holds three U.S. patents.