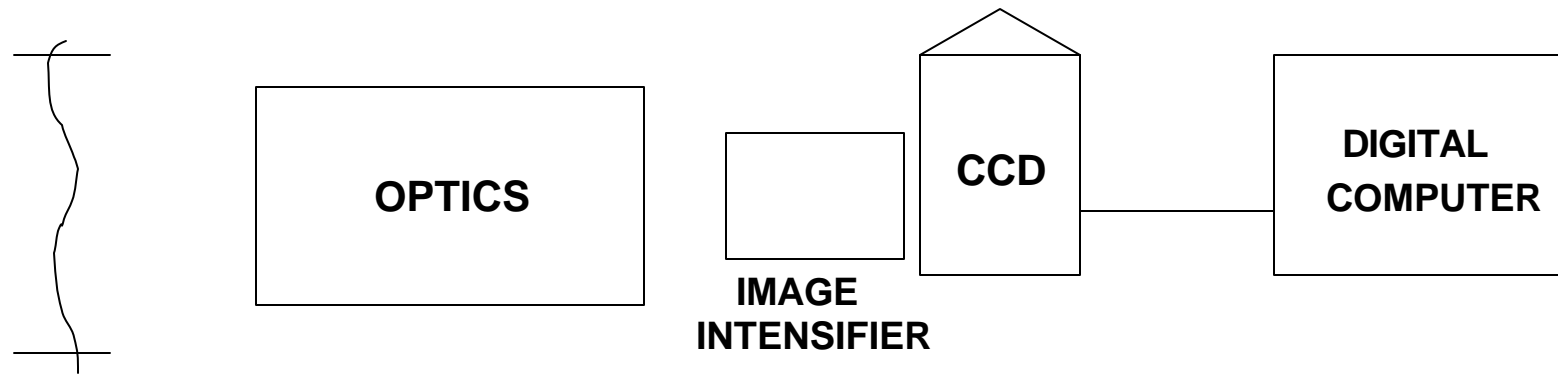


SPECKLE IN SCANNING AND IMAGING SYSTEMS

KEDAR KHARE
NICHOLAS GEORGE



OBJECTIVES

**STUDY SPECKLE NOISE
IN IMAGES**

**UNDERSTAND SPECKLE
FORMATION FROM
SPATIAL DISTRIBUTION
OF PHOTONS**

SPECIALITIES

**WAVELENGTH
DEPENDENCE**

PHOTON COUNTING

OBJECT RECOGNITION

**ATMOSPHERIC
TURBULENCE**

APPLICATIONS

**LASER SCANNERS
& PRINTERS**

REMOTE SENSING

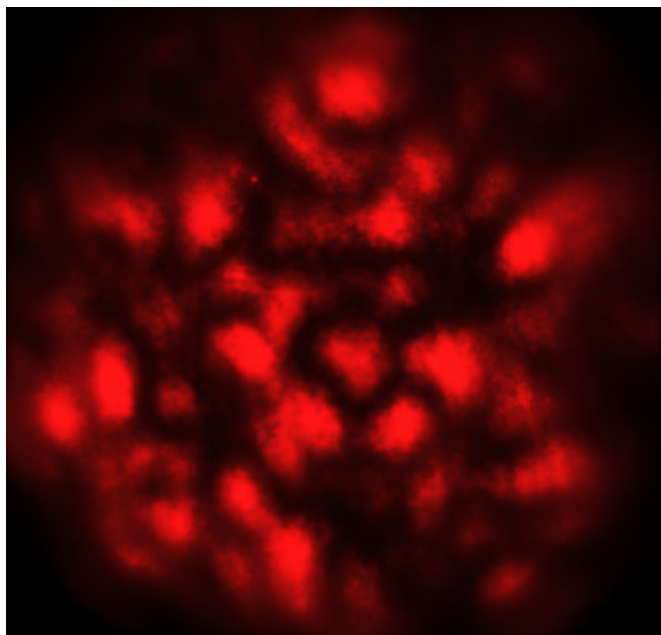
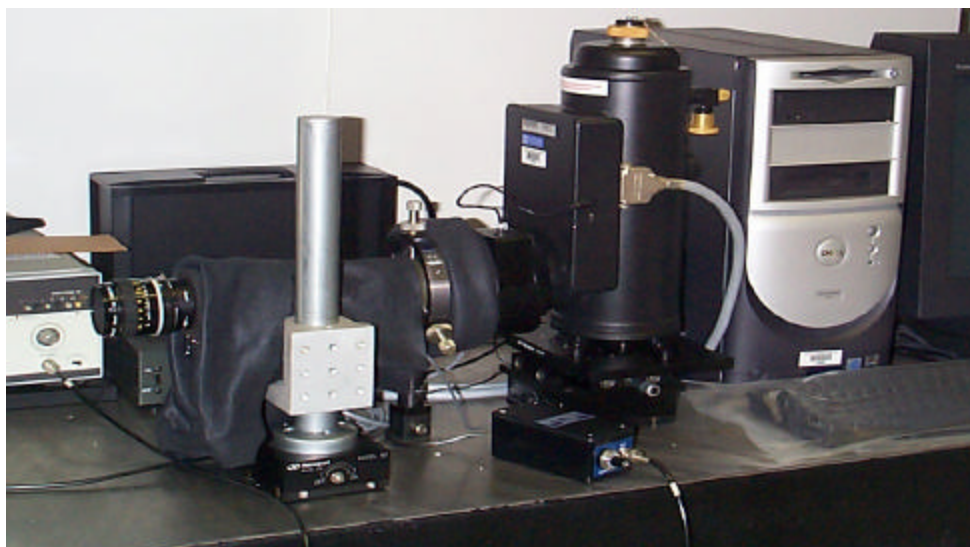
NIGHT VISION

ULTRASOUND

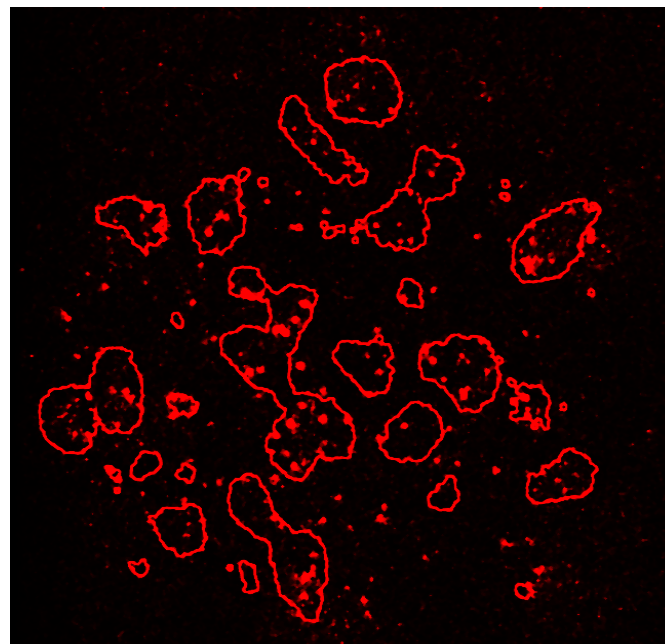
March 2002

RECENT EXPERIMENTS

SYSTEM FOR LOW LIGHT LEVEL IMAGING



HIGH LIGHT LEVEL SPECKLE PATTERN



SPECKLE PATTERN WITH ~100 PHOTONS

March 2002