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BME People

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Office

Alternate Office at West Campus Jack Murdock Building: Room 533

Primary Office at Center for Health and Healing

3303 SW Bond Avenue Mail code: CH13B

Rm #13047

Department(s)

Biomedical Engineering

Research Interests

General research efforts are in the fields of physical and statistical optics. Included is the study of laser speckle techniques for assessment of material properties including the development of processing algorithms for inferring motion and strain from the speckle patterns. Applications include diagnosis of skin cancer and process control for cultured tissues. Another area of study is scatter from tissues and suspensions, specifically in the use of polarization effects to reveal underlying structure of the scatters and temporal effects for assessment of material properties.

Research Project(s)

Laser speckle measurements of mechanical properties Propagation of partially coherent fields

Research Group(s)

Biomedical Optics



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