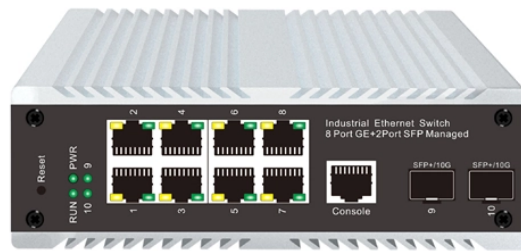


3D Fiber Optic Shape Sensing System



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This paper presents the characterization of an algorithm aimed at performing accurate fiber optic-based shape sensing. The measurement of the shape relies on the evaluation of the ...



Developed to facilitate monitoring and control of flexible aircraft designs when used in conjunction with Armstrong's multi-patented FOSS technology, these new tools improve shape-sensing accuracy for ...



Fraunhofer Heinrich Hertz Institute Fiber Optical Sensor Systems Schematic of the femtosecond laser process for a 3D sensor fiber with cladding waveguides and fiber Bragg gratings within them



We demonstrate proof-of-concept 3D multi-point deformation sensing via a single multimode fiber by using k -nearest neighbor (KNN) machine learning algorithm, and achieve a ...



A highly accurate MCF shape sensor for real-time 3D shape detection in visually inaccessible areas is developed. The MCF shape sensor shows a maximum relative error of 3.33% ...



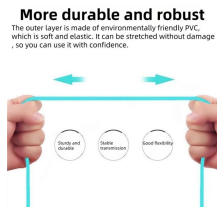
Fiber optic shape sensing uses embedded sensors to measure the full 3D shape of a flexible surgical device along its entire length in real time. By sensing the device itself from the inside, it provides ...



Our fiber optic shape sensing system comprises a sensor, a measurement device and the software that manages all the algorithms for data readout and processing.



Fiber Optic Shape Sensing is an innovative Optical Fiber Sensing Technology that uses a fiber optic cable to continuously track the 3D shape and position of a dynamic object (with unknown ...



Developed to facilitate monitoring and control of flexible aircraft designs when used in conjunction with Armstrong's multi-patented FOSS technology, these new tools ...



Lightera has developed a technology platform to produce high quality, twisted multi-core optical fiber with continuous FBGs (Fiber Bragg Gratings) to meet critical 3D shape sensing specifications.

Contact Us

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