Imaging Tech Pulse

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Monday, November 24, 2014

Image Correlation Helps Optimize Laser-Based 3-D Printing

Digital image correlation (DIC) could help prevent warping of metal parts made via laser-based additive manufacturing.

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Phosphorescent Bandage Helps Wound Assessment

Near-infrared imaging of a "smart" bandage can indicate oxygen concentration in severely damaged tissue, potentially increasing the success rate of surgeries to restore limbs and physical functions.

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Grant Award Furthers Study of SWIR Light for Detecting Cancer

The National Institute of Biomedical Imaging and Bioengineering, part of the National Institutes of Health, recently awarded a Rutgers University research team $2.2 million to explore a new medical imaging method that would reduce the need for biopsies.

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Photoacoustics Exposes Arterial Plaques

A new technique called intravascular photoacoustic imaging takes precise 3-D images and reveals the presence of carbon-hydrogen bonds making up lipid molecules in arterial plaques that cause heart disease.

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Video Captures Laser Pulses at '1 Billion FPS'

A camera trick allows the creation of a movie of a laser pulse moving slowly down a long hallway.

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