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Yohan PAYAN

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Biomechanics for computer-assisted medical interventions

Abstract

Yohan Payan's research interests concern the biomechanical modeling of soft tissues in the context of Computer-Assisted Medical Interventions (CAMI). The lecture will introduce the CAMI field while focusing on the main challenges researchers face in the future, i.e. the automatic generation of patient-specific models of organs and the integration of simulation tools into medical devices enabling real-time computations of these models. These challenges will be illustrated in the domains of plastic and maxillofacial surgery, neurosurgery and procedures for the prevention of pressure ulcers (in paraplegic patients and diabetic persons).

Friday, June 10 2016 / 13h30-15h00

Arts et Métiers ParisTech

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