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Université de Technologie de Compiègne
GI 042 – Bâtiment Génie Informatique
Avenue de Landshut
60200 Compiègne

Microrobotics and microrobots: small-scale interactive systems

Abstract:

In the presentation we will see how systems at small scales are different from macroscopic systems and detail the challenges associated with miniaturization. I will, in particular, focus on the design of micro-manipulation platforms and magnetic micro-robots. I will discuss the issues related to dynamic sensors for visual monitoring and force measurement, as well as teleoperation of micro-robotic systems with force feedback.

I will illustrate the presentation with experimental examples developed at the ISIR Institute.

Biosketch:

Stéphane Régnier is Professor at Université Pierre et Marie Curie, and leader of the INTERACTION team of the ISIR Institute (Institut des Systèmes Intelligents et de Robotique), as well as co-director of the Graduate School SMAER.

His research activities lie in the field of micro-robotics and large gain haptic teleoperation. He is a senior member of IUF since October 2015.