



Séminaire ISIR
Lundi 15 octobre 2018 à
16H30

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Campus Jussieu, 4 place Jussieu, Paris
Salle H20

Fibre based catheter for surgical actuation, sensing and drug delivery

Abstract : After briefly presenting my PhD work on helicoidal microrobot, I will present the fibrebot project. This project is currently developed in the Hamlyn Centre (imperial college, London). It aims to extend the reach of medical catheter by a fibre with a diameter lower to 0.5 mm. Three challenges are currently investigated:

1. Pneumatics actuation at the fibre tip for biopsy gripper design.
2. Microrobot assisted transfer method for electro-chemical and physical sensors on the fibre.
3. Microfluidic designs on the fibre for drug delivery and sampling.

Short bio : Antoine Barbot is a Post-doctoral researcher in microrobotics at Imperial College London.