

Magnetically driven micro- and nanoswimmers

We live in a world increasingly surrounded by robots. An emerging family of robotic systems are untethered micro- and nanorobots. One of the ultimate goals of small-scale robotics is to develop machines, for applications such as drug delivery or water remediation. The recent rapid developments in small-scale robotics is undeniably related to advances in material science and manufacturing.

In this talk, I will introduce two of my latest developments in small-scale robotics. In the first part, we will show how 3D printed microtemplates can be exploited to produce complex robotic microstructures made of rigid metals, soft polymers and combinations of these. The second part of this talk will be focused on multiferroic small-scale robots. Micro and nanorobots capable of wirelessly delivering electric fields can be used for electrostimulation of cells for the central nervous systems applications, or for bone tissue engineering and can also be used for water cleaning applications.

The IN²UB invites you to the seminar by

Prof. Dr. Salvador Pané i Vidal

Institute of Robotics and Intelligent Systems
(IRIS)
Swiss Federal Institute of Technology (ETH)
Zurich

SAVE THE DATE

October 27th, 2020 at 12.00h.

Telematic session by *BB Collaborate*



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