

Human-Centered Electronics

Initiative: Kurswechsel – Forschungsneuland zwischen den Lebenswissenschaften und Natur- oder

Technikwissenschaften

Ausschreibung: Planning Grants

Bewilligung: 05.08.2019

Laufzeit: 1 Jahre

Projekt-Website: <https://tu-dresden.de/mn/physik/iap/optoelektronik/forschung/projekte/Human-Centered-Electronics>

Flexible organic electronics enable fascinating new applications in medicine and biology. The long term aim of this grant is to combine the excellent previous work in the field of organic electronics with the field of medicine and biology, to create new competences enabling a new, human-centered electronics with features such as flexibility, low weight, biocompatibility, resorption capacity and eco-friendliness. For applications such as implantable sensors and actuators with integrated data acquisition and transmission, completely new device concepts must be developed as well as existing high-performance materials and device concepts adapted. This planning grant provides the opportunity to strengthen collaborations with clinical groups and to come up with a focussed research agenda.

Projektbeteiligte

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