VolkswagenStiftung

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

Prof. Dr. Karl Leo
Technische Universität Dresden
Institut für Angewandte Physik
Bereich Mathematik und Naturwissenschaften
Dresden

Dr. Frederik Nehm
Technische Universität Dresden
Fachbereich Physik
Institut für Angewandte Physik/Photophysik
Dresden

Dr. Hans Kleemann
Technische Universität Dresden
School of Science
Institute for Applied Photophysics
Dresden