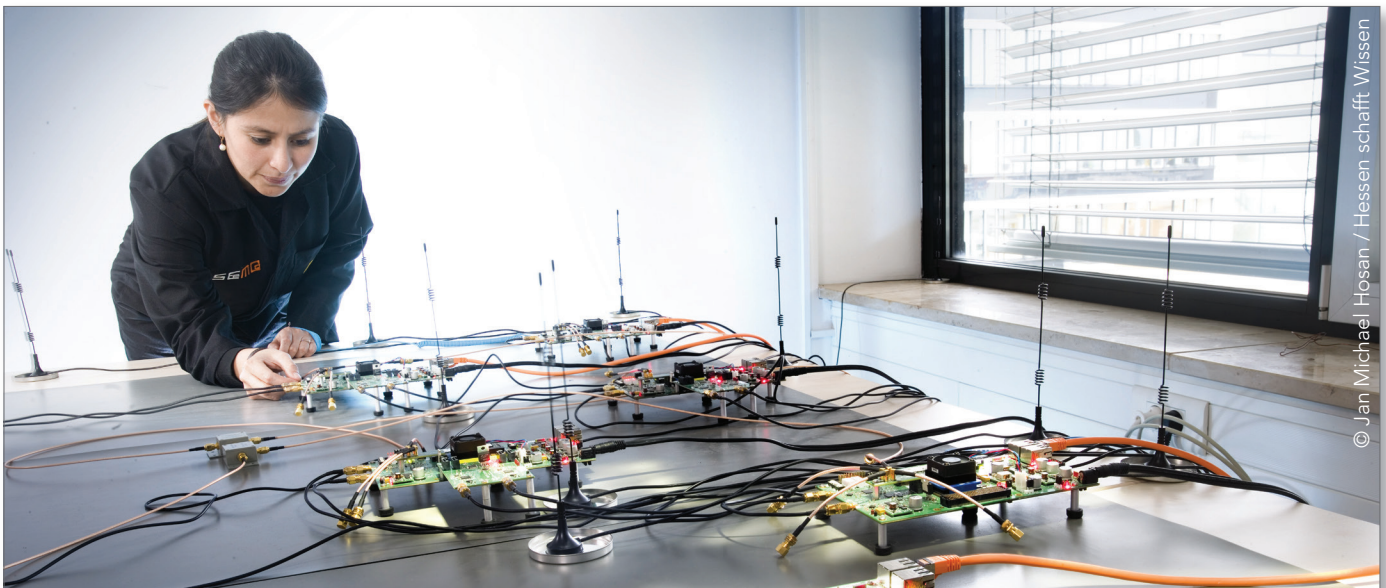


# LOEWE Research Cluster NICER



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## Networked Infrastructureless Cooperation for Emergency Response

Crises, disasters and major catastrophic events are triggered by the forces of nature, human or technical failure or violence and terrorism. They present a threat to human life, public safety in the area concerned and interregional economics. Technical infrastructures are damaged or destroyed. The LOEWE research cluster NICER is exploring how infrastructureless information and communications technology can establish links between people in the event of a crisis, thus enabling them to work together to overcome the crisis. To that end, NICER focuses on three main research areas: (1) setting up autonomous, decentralised and robust "communication islands", (2) constructing "communication bridges" between communication islands and (3) operating an "overall network" of services and applications to enable cooperation in the crisis situation. For the areas referred to above, NICER is developing basic scientific and technological principles with a view to bringing about a dramatic increase in the long-term performance of infrastructureless communication.





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#### **SUBJECT AREAS**

Informatics  
Electrical Engineering and Information  
Technology

#### **FUNDING PERIOD**

Since 2015

#### **INTERNET**

[www.nicer.tu-darmstadt.de](http://www.nicer.tu-darmstadt.de)

## LOEWE and ProLOEWE

Since 2008 the German federal state of Hessen has been promoting outstanding research initiatives through its own excellence programme, LOEWE. To date, 11 LOEWE research centres and 35 LOEWE research clusters have been selected in a competitive process to receive funding.

ProLOEWE is the LOEWE research initiatives network: their common aim is to provide information about their activities, speed up access to their research and intensify their cooperation. The website [www.proloewe.de/en](http://www.proloewe.de/en) provides an overview of the LOEWE research initiatives.