Freie Universität Berlin

JOB OPENING

We are looking for a

PostDoc / PhD Student in Berlin

Scope: Advanced Signal Processing for 5G Wireless Networks

Employer: Heisenberg Communications and Information Theory Group

Location: Freie Universität Berlin

Starting: June 2017 (01.06.2017)

Group description

The **Heisenberg Communications and Information Theory Group at Freie Universität Berlin**, Department of Mathematics and Computer Science, is directed by Gerhard Wunder. The working group is active in Future Wireless Networks (5G Mobile Communication), Massive Internet of Things, Tactile Internet and Security. Main working areas are the **application of communication and information theory, mathematical optimization and statistics plus advanced signal processing**, e.g. **compressed sensing**, in these fields. You can find further details at http://www.mi.fu-berlin.de/en/inf/groups/ag-comm/index.html.

Job description

The group is seeking an **outstanding PostDoc (preferred) or PhD Student** in the field of Advanced Signal Processing for 5G Wireless Networks, specifically in the field of robust cooperative designs for massive MIMO and distributed/centralized massive antenna systems (CRAN/DRAN). The candidate will **develop and implement advanced signal processing algorithms**, as well as analyze their performance towards the fundamental information-theoretic limits, to enable robust and scalable cooperation in 5G networks. The position is part of the EU H2020 5GPPP flagship project ONE5G (upcoming 5G New Air Interface).

Requirements

Applicants must possess a **master degree in mathematics, electrical engineering, computer science or similar**. Applicants with **strong skills in mathematics** will be given preference.

Desirable

The candidate is expected to have a profound knowledge in the field of **modern signal processing for communications, specifically Compressed Sensing, Prediction and Machine Learning Tools**. Additional knowledge on fundamental information-theoretic limits for cooperative wireless networking is desired.

To be considered please send a short cover letter outlining your background, a detailed CV including possibly some references, and all relevant certificates to g.wunder@fu-berlin.de.