

Looking for Ph.D candidates

The working group of Prof. Dr. Uwe Hartmann, Saarland University, Germany, has been working on high-resolution magnetic imaging by scanning probe techniques and magnetic sensor research based on various principles including AMR, GMR, CMR and GMI for the last 19 years. Various equipments, i.e., STM, SEM, AFM/MFM, are used for understanding and measuring of magnetic properties. The group has access to several magnetometers to measure and test magnetic sensor characters as well. Several sputter deposition systems, one clean room and one electron beam lithography system are available for magnetic thin film deposition and magnetic sensor fabrication. The group developed magnetic detector based systems for on ground aircraft position monitoring as well as for car park guidance in previous EU and state funded projects.

For the following research directions:

- Magnetic material characterisation and magnetic sensor development
- Magneto-impedance-effect
- Magnetic force microscope
- Further development of scanning probe microscope

We are looking for Ph. D. candidates immediately.

Please contact Dr. Haibin Gao h.gao@mx.uni-saarland.de for further information.