



GUC German Office

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Topic Proposal Form

International Bachelor Thesis 2021

Supervisor	Univ.-Prof.- Dr. -Ing. Giovanni Del Galdo, Dr.-Ing. Florian Römer
Institute/Department	Fraunhofer IIS/ Electronic Measurements and Signal Processing department (EMS) TU Ilmenau/ Electronic Measurements and Signal Processing chair (EMS)
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Research field/Project	Signal Processing for Material Data Acquisition using Smart Sensors
Description (URL for research information)	The EMS group is active in the area of Signal Processing for Material Data Acquisition using Smart Sensors with focus on the employment of innovative signal acquisition techniques such as compressive sensing to identify and reduce the data redundancy by substantial amount, leveraging prior knowledge about the object under investigation. The student will be assigned to the exact Thesis topic based on the project work available at the starting date of the Bachelor Thesis. This way the Thesis has better chances to be project-related with better practical scope.
Maximum number of GUC BSc students who could work on the project	1
Compulsory qualification of students	Good Analytical Skills Good programming skills: Matlab, Python
Date of stay (from – to)	4-6 months, flexible starting date
Remote supervision possible (Yes/No)	
Additional contact partner Name and email	

Further comments	Additionally, be aware that you can apply for a student job or internship on a related topic.
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