



GUC German Office

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Topic Proposal Form

International Bachelor Thesis 2021

Supervisor	Univ.-Prof.- Dr. -Ing. Giovanni Del Galdo, Dipl.-Ing. Christian Schneider
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	Radio Modelling, Sounding and Sensing
Description (URL for research information)	<p>The EMS group is active in the area of Radio Modelling, Sounding and Sensing with focus on the following research aspects:</p> <ul style="list-style-type: none"> - Deriving Channel Modelling from channel sounding and propagation simulation for evaluation and emulation purposes - High Resolution Parameter Estimation concepts including high resolution parameter estimations are derived for channel analysis and radio detection, localisation and imaging. - Concept Development for joint communication and radar application at physical and higher layers - Signal Processing Concepts are derived at above directions based on artificial intelligence <p>The student will be assigned a relevant 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.</p>
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)	6 month, flexible starting date
Remote supervision possible (Yes/No)	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.