

Founded in 1419 by confirmation of Pope Martin V
Oldest and largest university in the Baltic Sea Region and continental Northern Europe
3rd oldest university in Germany in continuous operation
8th oldest university in Central Europe

5th university established in the Holy Roman Empire



- Faculty of Computer Science and Electrical Engineering
- Faculty of Law
- Faculty of Mechanical Engineering and Marine Technology
- Faculty of Mathematics and Natural Sciences
- Faculty of Medicine
- Faculty of Humanities
- Faculty of Theology
- Faculty of Economic and Social Sciences
- Interdisciplinary Faculty

 November 12, 1919: The University of Rostock awards Honory Doctorates to Albert Einstein and Max Planck

Famous alumni include

- the Nobel laureates Albrecht Kossel, Hans Spemann, Karl von Frisch (all medicine), and Otto Stern (physics),
 the theoretical physicists Pascual Jordan and Walter H. Schottky, and
 - the former German president Joachim Gauck

- Facts about the Faculty of Mechanical Engineering and Marine Technology
 - Founded in 1951 as the 1st Technical Faculty at a Full University in Germany
 - 21 (+ 2 associated) chairs
 - Bachelor studies in
 - Mechanical Engineering
 - Mechatronics
 - Biomedical Engineering
 - Industrial Engineering and Management





- Facts about the Faculty of Mechanical Engineering and Marine Technology
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 - Industrial Engineering and Management
 - Ship Building and Marine Technology





In 1218, Rostock was granted Lübeck law city rights by Heinrich Borwin, Prince of Mecklenburg.









Chair of Mechatronics



• Teaching in the frame of the **Bachelor Programs** of the Faculty of Mechanical Engineering

Prof. DrIng. Harald Aschemann	PD DrIng. habil. Andreas Rauh	
Fundamentals of Measurement Technology		
Fundamentals of System Dynamics and Control		
Linear State-Space Control		
Digital Control Systems		
Project Mechanical Engineering/Mechatronics + Bachelor Thesis		



Chair of Mechatronics PD Dr.-Ing. habil. Andreas Rauh

Chair of Mechatronics



• Teaching in the frame of the Master Programs of the Faculty of Mechanical Engineering

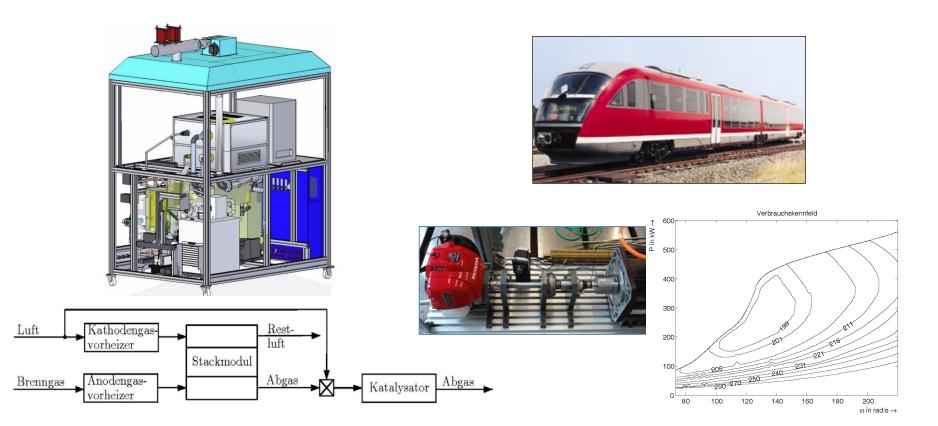
Prof. DrIng. Harald Aschemann	PD DrIng. habil. Andreas Rauh
Nonlinear Control Systems	
Control-Oriented Modeling in Mechatronics	Robust Control and State Estimation
Optimization Techniques in Mechatronics	Uncertainty Modeling for the Robust Control of Dynamic Systems
Active Vehicle Control Systems	
Dro Mactors Drojact + Mastor Thosis	

Pre-Masters Project + Master Thesis



PD Dr.-Ing. habil. Andreas Rauh

Mechatronics: Application-Oriented Transfer of Methodological Knowledge



Robust and optimal control of fuel cell systems

Derivation and optimization of operating strategies for hybrid drive trains

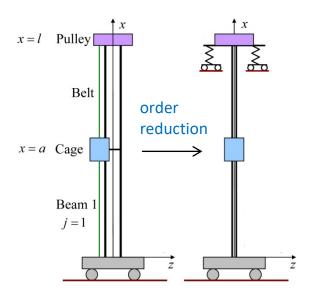


PD Dr.-Ing. habil. Andreas Rauh

Mechatronics: Application-Oriented Transfer of Methodological Knowledge



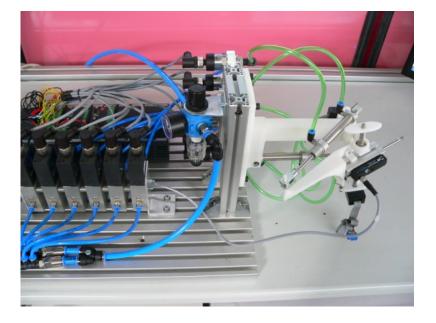
Oscillation attenuation for elastic systems: Wind turbines (pitch control) and handling systems for high-bay storages (demonstrator setup)





PD Dr.-Ing. habil. Andreas Rauh

Mechatronics: Application-Oriented Transfer of Methodological Knowledge



Pneumatically actuated tumor phantom robot: Optimization of image-based systems in medical diagnostics



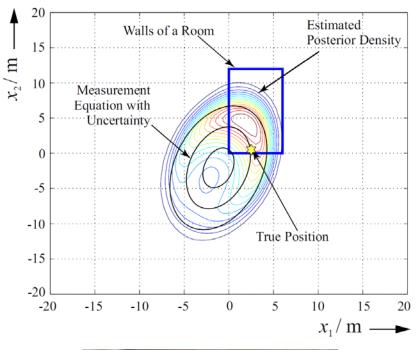
PD Dr.-Ing. habil. Andreas Rauh

Mechatronics: Application-Oriented Transfer of Methodological Knowledge



Stochastic localization and estimation procedures (filtering and uncertainty modeling)

Enhancement of undersampling procedures for MRI scanners (compressed sensing)

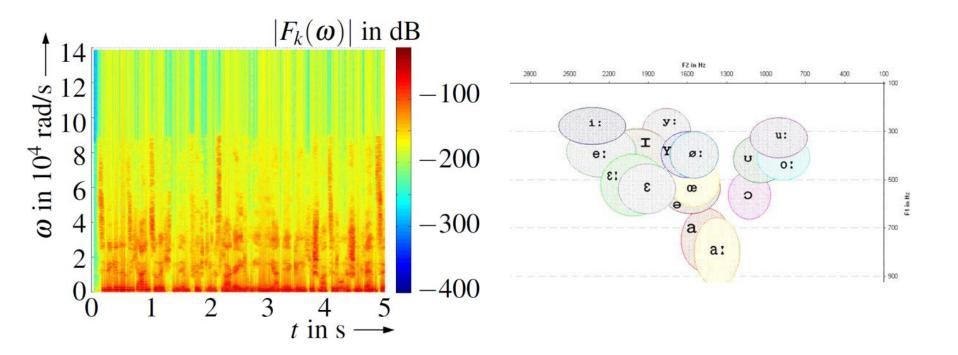






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Mechatronics: Application-Oriented Transfer of Methodological Knowledge



Phoneme detection and assistance system in speech therapy



PD Dr.-Ing. habil. Andreas Rauh

Mechatronics: Application-Oriented Transfer of Methodological Knowledge





