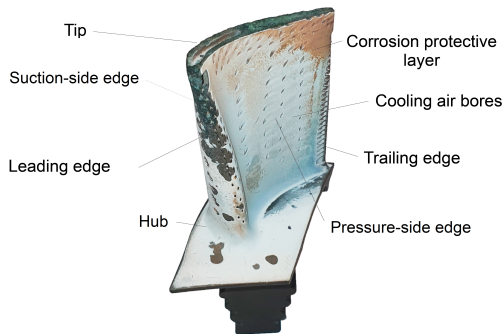


Bachelor's thesis/Master's thesis/Student project **Geometry acquisition and aerothermodynamic evaluation of digitised turbine blades/vanes**

For saving resources and reducing CO₂ emissions in the maintenance of jet engines, we are developing methods that enable an automated aerothermodynamic evaluation of digitised turbine blades/vanes.



Adapted from: Goeing et al. (2022)

Your possible tasks

- Development of enhanced mathematical methods for the alignment of digitised blades/vanes
- Development of enhanced mathematical methods for the parametrisation of digitised blades/vanes
- Programming of enhanced methods using object-oriented programming in Matlab
- Meshing of digitised turbine blades/vanes using ANSYS ICEMCFD or reconstructed turbine blades/vanes using NUMECA IGG
- Simulation of turbines using ANSYS CFX

Contact

If you are interested in one of these tasks, please send me an Email with a brief explanation of what you are studying (study programme and semester) and why you are interested. Complete application documents are not required. If you have any questions, do not hesitate to contact me.

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