

# CSE NEWSLETTER

2025  
NOVEMBER



## GRADUATION CEREMONY

On 24 May 2025, students, lecturers and family members gathered in the Audimax to celebrate the graduates. Afterwards, we ended the day at the Eusebia restaurant.

32 CSE students have successfully completed their studies. Ibrahim A.M. Aljaish, Kowshik Srivatsan and Rishabh Arora passed with honours - well done! Once again, congratulations to all graduates, we wish you all the best for the future!

## CSE & MUSEN BBQ

Despite the mixed weather forecasts, we were hoping for sunshine, and our wish was granted. We enjoyed delicious food and great music, and the sun came out just in time for the evening. The event provided a wonderful networking opportunity for CSE students, alumni, staff and members of the MUSEN community. It was also a special occasion to say goodbye to our dear colleague, Annika. Thank you for your dedication, Annika — you will be missed!

We are grateful to everyone who helped make this event possible. We're already looking forward to our next opportunity to connect and celebrate!



## STUDY TRIP TO HAMBURG

As part of our curriculum, fifteen CSE students and two supervisors visited Hamburg, where they toured companies such as Xing, Wärtsilä and Altair, gaining insights and practical knowledge.

The hospitality and educational value were exceptional. Outside of the official programme, they enjoyed activities such as a city tour and relaxing evenings in Hamburg, all of which were enhanced by fantastic weather. This trip effectively complemented their theoretical knowledge with practical experience and enabled them to forge new connections.

## CSE STUDENT PROJECT

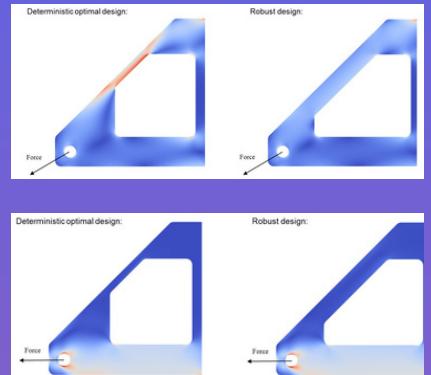
Here is a brief insight into the projects of our CSE students. This time we present the study project of Mustafa:

"I completed my master's thesis at the Institute of Acoustics and Dynamics (InAD) with Prof. Ulrich Römer as examiner. The goal of the thesis was to develop an efficient framework for tackling robust optimization of computationally expensive black-box models.

In the first phase, I developed an efficient bi-level robust optimization framework that combines surrogate-based optimization in the outer loop with surrogate-based uncertainty quantification in the inner loop.

In the second phase, the focus was to improve the bi-level approach by reusing information from previous optimization steps. For this, a nearest-neighbor approach was introduced, which incorporates data from nearby previously evaluated design points to construct more accurate surrogate models.

Both approaches were successfully verified on a benchmark problem: a finite element model of a structural bracket, developed using FEniCSx. The nearest-neighbor method also was able to reduce the total number of expensive function evaluations for the given benchmark."



## WELCOME RECEPTION



On November 4, 2025, our annual CSE Welcome Reception marked the grand finale of our introductory phase. In a relaxed atmosphere, our new CSE batch 2025 enjoyed a friendly evening with CSE lecturers, alumni, senior students and supporters and made initial contacts.

These get-together gives the foundation for strong cohesion in our diverse CSE community, an important building block for successfully supporting students from a wide variety of cultural backgrounds in their studies.

We thank all participants and supporters for this wonderful evening and wish our CSE batch 2025 a great and successful start to CSE programme.

## CHRISTMAS RECEPTION

And finally, on December 10, we hosted our annual CSE Christmas Reception.

We celebrated with 70 guests, including CSE students, faculty staff, alumni, sponsors, and our special guests from the Data Science, AIMS, and SEPP programs. The evening was all about exchanging ideas, sharing stories and traditions, making new friends, and enjoying a cozy Christmas atmosphere with Lebkuchen, crisp Spekulatius biscuits and hot Christmas drinks.

Thank you to everyone who came, and here's to many more unforgettable gatherings in the coming year!

