

# Large Scale Systems Week

Forum Finkenau, Finkenau 35, 22081 Hamburg

Monday, 02.12.2024 - Training Day

Tuesday, 03.12.2024 - Academia Day

Wednesday, 04.12.2024 - Industry Day

Explore the challenges and opportunities presented by large scale energy systems modeling and control with industry experts and academics

Please apply until 19.11

application:



HAW-Hamburg: Large Scale Systems Week

LinkedIn:



Large Scale Systems Week | LinkedIn

<https://www.haw-hamburg.de/en/go-2-profin/large-scale-systems-week/>

## Training Day

### Hands-on Experience with Modeling Tools

by go-2-prof:in (HAW)

Monday, 02.12.2024

09:00 – 16:00

The Training Day is specifically aimed at students and offers the opportunity to learn about modeling tools in MATLAB and Python through hands-on examples with experts

09:00	Welcome & Intro
09:15	Josep Fanals Batllori (eRoots) <i>AC/DC power flow aimed at large scale systems</i>
10:45	Coffee Break
11:00	Marcus Wiens (Fraunhofer IWES) <i>Q-Sim: Modular Large-Scale Simulation Platform</i>
12:30	Lunch
14:00	Gerwald Lichtenberg & Team (HAW/ILES) <i>Multilinear modeling with the MTI-Toolbox for Matlab</i>

## Academia Day

### Current Challenges

by go-2-prof:in (HAW)

Tuesday, 03.12.2024

09:00 – 17:30

The Academia Day welcomes experts from academia to discuss the current challenges in large scale systems

<b>09:00</b>	John Lygeros (ETH Zurich) <i>Control of Networked Energy Hubs</i>
<b>10:00</b>	Coffee Break
<b>10:15</b>	Horst Schulte (HTW Berlin) <i>Virtual Aggregation of Distributed Energy Resources by Cascaded Model Reference Adaptive Control</i>
<b>10:45</b>	Nahal Sharafi (DESY) <i>On the Predictability of Dynamical Systems</i>
<b>11:15</b>	Coffee Break
<b>11:30</b>	Arne Speerforck (TUHH) <i>Towards Modeling Large Scale District Heating Networks</i>
<b>12:00</b>	Ahmed Aboudonia (ETH Zurich) <i>Data-driven Train Climate Control</i>
<b>12:30</b>	Lunch
<b>13:30</b>	Panel discussion <i>Challenges and possible Solutions to the Large Scale Energy Systems of Tomorrow</i>
<b>14:30</b>	Closing Words
<b>14:45</b>	Start of Excursion to DESY

## Industry Day

### Large Scale Systems in Industry

3<sup>rd</sup> ILES Workshop by Fraunhofer IWES

Wednesday, 04.12.2024

09:00 – 15:00

The Industry Day will explore real-world challenges and opportunities when dealing with large scale systems. The event will particularly highlight modeling and control in industry

<b>09:00</b>	Jan Wenske (Fraunhofer IWES) Welcome & Intro
<b>09:30</b>	<b>Poster Session</b> <ul style="list-style-type: none"><li>▪ Aruna Chandrasekar (EPRI)</li><li>▪ Anant Shatrughan Rane (HAW/Aurubis)</li><li>▪ Onur Alican (CITCEA UPC)</li><li>▪ Niklas Riemann (50Hertz)</li><li>▪ Horst Schulte (HTW Berlin)</li><li>▪ Christian Fröhlich &amp; Christoph Wirtz (FGH e.V.)</li></ul>
<b>11:00</b>	<b>“Unconference”</b> Poster Session & Discussion of Results
<b>12:30</b>	Lunch
<b>13:30</b>	Panel Discussion <i>Industry Roadmap on how to deal with Large Scale Systems</i>
<b>14:30</b>	Exchange of Ideas during open-ended Coffee Break