

Tutorial: Next-generation model-based tools for innovative teaching and research

Speaker: Dimitrije Jelić, Application Engineer, Typhoon HIL

Tutorial description:

The tutorial participants can look forward to a productive session with a Typhoon HIL application engineer in which they will learn more about the Typhoon HIL software toolchain. This tutorial is designed for students, teachers, and researchers in the domain of power electronics and electrical drives. The expected outcome of this tutorial is to provide each participant with the operating knowledge of hardware-in-the-loop concepts and tools that you can apply in your everyday research and work.

Agenda:

- Introduction to Typhoon HIL toolchain
- Boost converter with MPPT algorithm
- Variable speed drive - IGBT losses calculation and thermal modelling

Speaker bio: Dimitrije is an electrical engineer graduated from the Faculty of Technical Sciences in Novi Sad, Serbia 2021. Since 2019 he is working in Typhoon HIL as an application engineer. His main focus is on power electronics and electrical drives applications.

Software access:

All participants of the EDPE 2021 Conference can gain free Typhoon HIL Control Center access with the Premium Toolbox Package following the instructions below:

1. Go to <https://subscription.typhoon-hil.com/register/> and register with this activation key: **16QHP-UVNBS-4LKJY-AZFDC-CE50C**
2. Get the latest software release in the Download section: <https://subscription.typhoon-hil.com/download/>