

## RESEARCH SEMINAR 01

# Rigorous Methods for Safe & Secure Systems & Software Engineering

Dr. Atif Mashkooor (GmbH)

Will be held ONLINE on Friday 2<sup>nd</sup> October, 2020 at 1200 PST

Google Meet Link: <https://meet.google.com/hih-zcvy-tob>

**Abstract:** The use of software has become ubiquitous and prevalent in modern systems that we use every day and our lives depend on them such as cars, planes, and medical devices. Consequently, the failure rate of such systems due to software faults is also increasing. While next-generation software-intensive systems contribute to providing better services and ease of use, their development is becoming unprecedentedly complex and challenging. The critical nature of such systems – particularly their direct implications on security and safety – requires extraordinary measures to ensure their correct and reliable function. In this talk, we learn how rigorous methods -which are proven to provide approaches, techniques, and tools for correct engineering of software and systems - can be beneficial in this context.

**Author's Biography:** Dr. Atif Mashkooor is a senior research scientist at the LIT Secure & Correct Systems Lab and the Institute for Software Systems Engineering @ Johannes Kepler University, Austria. He has a rich hand on experience with modeling, analysis and validation of systems and software. He has worked in industry for several years before joining the academia. He holds Ph.D. from the University of Lorraine, France, and M.S. from the University of Umea, Sweden in computer science. Additionally, he has studied computational linguistics at the Rovira i Virgili University, Spain.