



CONSTRUCTOR INSTITUTE RESEARCH CONTRIBUTIONS UNEARTHED FOR SCHAFFHAUSEN

**C>ONSTRUCTOR**  
INSTITUTE

*CIRCUS*  
*Workshop*

June 27, 2024  
09h-17h



**Location: Constructor Institute,  
Rheinweg 9, Schaffhausen**

Join us for a day of insightful presentations by Constructor Institute professors and researchers, showcasing our cutting-edge work to the Constructor network and the Schaffhausen community.

Discover innovative research topics that can impact everyday life and drive technological advancements in society.

[Register here](#)





## AGENDA

- **9:00 – 09:30 Coffee and croissants**
- **9:30 - 9:40 Welcome note by Prof. Dr. Bertrand Meyer, Provost at Constructor Institute**
- **09:40 - 11:00 Session 1: Talks by Chair of Software Engineering**
  - 09:40 – 09:55 Why do we need to verify software, and what can we achieve? by Bertrand Meyer
  - 09:55 – 10:10 Software verification in practice: combining proofs and tests by Li Huang
  - 10:10 – 10:25 Can the computer correct our mistakes? by Viktoryia Kananchuk
  - 10:25 – 10:40 What is a class invariant and why do we need it? by Ilgiz Mustafin and Alessandro Schena
  - 10:40 – 11:00 Q&A

**11:00 -11:15 Coffee  
break**

- **11:15 - 12:30 Session 2: Talks by Chair of Quantum Software Engineering**
  - 11:15 – 11:35 Quantum: from Computing to Software Engineering by Manuel Oriol
  - 11:35 – 11:50 Virtual teaching assistant for Capstone project course by Julia Kotovich
  - 11:50 – 12:05 C4Q: A Chatbot for Quantum by Yaiza Aragonés-Soria
  - 12:05 – 12:20 Niel's Chess: A Quantum Game for Schools and the General Public by Tamas Varga
  - 12:20 – 12:30 Q&A





**12:30 -13:45 Lunch  
break**

- **13:45 – 15:00 Session 3: Talks by Software Testing and Analysis Research (STAR) chair**
  - 13:45-14:00 Assessing the quality of smart cities by Mauro Pezzè
  - 14:00-14:10 Testing Human Centric Systems by Alind Xhyra and Noura El Moussa
  - 14:10-14:20 Smart monitoring complex ecosystems by Ketai Qiu, Francesco Lomio
  - 14:20-14:30 Smart EcoSystem Health by Matteo Ciniselli, Davide Molinelli, Niccolò Puccinelli
  - 14:30-14:40 Autonomic Testing by Luca di Grazia, Davide Molinelli, Ketai Qiu
  - 14:40 – 14:50 Digital Mirrors by Francesco Lomio, Davide Molinelli, Luca di Grazia, Ketai Qiu
  - 14:50-15:00 Q&A

**15:00 -15:30 Coffee  
break**

- **15:30 -16:45 Session 4: Chair of Quantum Communications**
  - 15:30 – 16:15 The second quantum revolution by Wolfgang Tittel
  - 16:15 - 16:45 Q&A and general discussion
- **16:45-16:55 Conclusion by Prof. Dr. Manuel Oriol, President of Constructor Institute**

**17:00 Thank you**

