

## Invitation to lecture series “Simulation Sciences”

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Monday, February 23, 2026, 1:00 pm,  
Seminar room 102, building D5, TU Clausthal

### **Emad Jacob Maroun**

PostDoc researcher at the Compute Embedded Systems Engineering section  
at Technical University of Denmark (DTU)

will talk about

### **Scry: The Future-Oriented Instruction Set Architecture**

#### Content of the lecture:

Instruction set architectures (ISAs) define the interface between hardware and software. The fundamental design of contemporary ISAs has been largely unchanged since the 1980's. However, processor implementations have greatly evolved and must now contend with slow memory and energy budgets. Scry is a novel ISA that aims to increase the performance and efficiency of modern processors by providing them with as much information about the future as possible. This presentation will cover the challenges of modern processors and how Scry addresses them. It will present the design of Scry and how its assembly language works. The Scry ISA software simulator, Scryer, is also presented, with a discussion of how its design promotes scalable testability.

**Guests are welcome.**

The lecture will be held in this building:

**Seminar room 102**

**Institute for Informatics, Auditorium building (D5)**

**Albrecht-von-Groddeck-Straße 7**

**38678 Clausthal-Zellerfeld**

