Course

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This course has already ended.
The latest instance of the course can be found at: Concurrent Programming: 2023

     Course materials

CS-E4110 / Round 1 - Scala concurrency - Part 1

Monday, 1 November 2021, 03:00 – Friday, 12 November 2021, 14:00
Late submissions are allowed until Friday, 19 November 2021, 14:00. However, points are only worth 70%.

First, this round presents what concurrent computation means and how it is modeled in reality. Then, we find out how low-level concurrency is implemented using Scala. Note, that Scala inherits its low-level concurrency mechanisms from Java. The main aim of this round is two-fold. The first thing is to introduce the low-level primitives of concurrency. The second and maybe more important one is to motivate the use of high-level concurrency abstractions whenever possible and avoid the manual use of the low-level parallelism constructs.

     1 Concurrency basics -- Basics of concurrent computing.
     2 Threads -- Low-level concurrency basics using Threads.
     3 Atomic Integer -- Atomic operation basics using Atomic Integer.
     4 Atomic Reference -- Atomic operation basics using Atomic Reference.
     5 Feedback