

# Software Engineering

## Errata for the Course Slides DE/2019

September 17, 2021

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### Lecture 9: Live Sequence Charts & RE Wrap-Up

#### Slide 14, ‘Loop Condition’ (NEW)

In the second bullet point, the last sentence needs to read

- Local invariant  $(l_0, \iota_0, \phi, l_1, \iota_1)$  is *active* at cut (!)  $q$   
if and only if  $l_0 \preceq l \prec l_1$  for some front location  $l$  of cut  $q$ .

*Short notice note: If the 2021 exam has related tasks, the outcome will not depend on this fix but be the same either way (with the erroneous or the fixed definition).*

#### Slide 15, ‘Progress Condition’

The last bullet point needs to read:

- $\psi_{\theta}^{\text{LocInv}, \bullet}(q, q_i) = \bigwedge_{\lambda=(l, \iota, \phi, l', \iota') \in \text{LocInv}, \Theta(\lambda)=\theta, \lambda \bullet\text{-active for } (q, q_i)} \phi$

Local invariant  $(l_0, \iota_0, \phi, l_1, \iota_1)$  is  $\bullet$ -*active* for  $(q, q_i)$  if and only if

- $l_0 \in (q_i \setminus q) \wedge \iota_0 = \bullet$ , or
- $l_0 \in q \wedge l_1 \notin q_i$ , or
- $l_1 \in (q_i \setminus q) \wedge \iota_1 = \bullet$ .

The fixed definition in particular treats the following case correctly, where an observed sequence of messages  $A_1, C_1?, A_?$  needs to consider the local invariant together with  $C_1?$ :

