

Einladung

zum Informatik-Kolloquium des
FB Programmiersprachen und Übersetzer am
Freitag, den 20. September 2019, um 11:00 Uhr s.t.
Bibliothek E194-05, Argentinierstr. 8, 4. Stock (Mitte)

Es spricht

Prof. Dr. Ernst-Rüdiger Olderog

Carl von Ossietzky Universität Oldenburg, Oldenburg, Deutschland

über

Space for Traffic Manoeuvres

Dense traffic on roads is calling for advanced driver assistance systems or even autonomous driving to increase the safety (collision freedom). How can we prove that such systems guarantee safety? Realising that safety on roads is a primarily spatial property, we developed an approach to car safety that decomposes spatial from dynamic reasoning. It is based on a dedicated Multi-lane Spatial Logic (MLSL), which abstracts from the continuous car dynamics, and controllers using MLSL formulas. The talk gives an overview of recent results in pursuing this approach.

Biographie: Ernst-Rüdiger Olderog obtained his diploma, doctoral degree, and habilitation in Computer Science from the University of Kiel in the years 1979, 1981 and 1989. During 1981-1983 he was a visiting scientist in the Programming Research Group at Oxford University. He has been visiting professor at the Universities of Saarbrücken and Amsterdam, and at ETH Zürich. Since 1989 he is a professor of Computing Science at the University of Oldenburg. His research interest is in the area of specification, design, and verification of programs, reactive and real-time systems. In 1994 he was awarded the Leibniz Prize of the DFG. During 1995-2005 he was chairman of the IFIP Working Group 2.2 on Formalization of Programming Concepts. During 2000-2014 he was Editor-in-Chief of the journal Acta Informatica. During 2017-2019 he was Dean of the School of Computing Science, Business Administration, Economics, and Law. Since 2012 he is the Speaker of the DFG-funded Research Training Group SCARE (System Correctness under Adverse Conditions). In 2012 he was elected Member of Academia Europaea. (<https://uol.de/en/computingscience/csd>)

Zu diesem Vortrag lädt der *Forschungsbereich für Programmiersprachen und Übersetzer am Institut für Information Systems Engineering* herzlich ein.

Tee: 10:30 Uhr in der Bibliothek E194.5, Argentinierstr. 8, 4. Stock (Mitte).