

A portrait of Prof. dr. Michel Chaudron, a middle-aged man with short grey hair and a light beard, wearing a blue blazer over a green shirt. He is standing outdoors with a blurred green background. The image is partially overlaid by a green banner at the bottom.

Prof.dr. Michel Chaudron
March 24, 2023

INAUGURAL LECTURE

Challenges in Software Architecting

TU/e

**EINDHOVEN
UNIVERSITY OF
TECHNOLOGY**

DEPARTMENT OF MATHEMATICS AND COMPUTER SCIENCE

INVITATION

Prof.dr. Michel R.V. Chaudron was appointed full-time professor of Software Engineering at the Department of Mathematics and Computer Science at Eindhoven University of Technology (TU/e) on July 1, 2020. He will deliver his inaugural lecture on March 24, 2023.

The Executive Board of Eindhoven University of Technology cordially invites you to attend the inaugural lecture of Prof.dr. Michel Chaudron on **Friday, March 24, 2023, at 4.00 PM**. The public lecture will be delivered in the Blauwe Zaal of the Auditorium. You do not need to register. In the event that restrictions regarding attendance are implemented due to covid-19, the proceedings can be followed online.

The title of the lecture is
'Challenges in Software Architecting'

After the lecture, drinks will be served in the Senaatszaal.

All full professors are invited to join the cortège. If you want to join the cortège, please register in advance with the P&P office which organizes all academic ceremonies, telephone +31 (0)40 247 33 02, e-mail: penp@tue.nl.



Prof.dr.ir. F.P.T. Baaijens
Rector Magnificus

After March 24, 2023, the text of the inaugural lecture will be available online at www.tue.nl/lectures.

Michel Chaudron obtained MSc and PhD degrees in Computer Science from Leiden University. After working as a professional system/software engineer with CMG Advanced Technology in The Hague (now part of CGI), he joined the group of Professor Dieter Hammer at Eindhoven University of Technology to work in the field of Software Architecting. He was the principle investigator in several ITEA projects that developed methods and frameworks for dynamic distributed component-based systems for low-resourced systems. He moved to Leiden University (LIACS) to direct the ICT in Business MSc program from 2008 to 2012. In 2012 he became full professor and group leader of the Software Engineering division at the department of Computer Science and Engineering, which is shared between Chalmers and Gothenburg University in Sweden. In 2020 he returned to Eindhoven University of Technology where he now is a professor in the Software Engineering and Technology cluster.

About the lecture

Software has become essential to society. The creation of software is very challenging in many ways. The field of Software Engineering studies techniques, tools, processes and their use by people in creating and maintaining software. Many of the challenges in creating software are due to the increasing size and complexity of software. Software architecting is a collection of practices aimed at combatting the complexity of software. Chaudron's research centers around the design, modeling, analysis and use of software architectures. He has proposed scalable techniques for analyzing system properties based on architectural models. Also, he has performed many empirical studies into factors that affect the effectiveness of software architecting in industrial settings. In this lecture, Chaudron will explain the need for software architecture, the challenges that arise in effectively applying software architecting, and the challenges in researching software architecture.

Visiting address Auditorium, Building 1, Groene Loper, Eindhoven

Navigation address De Zaaie, Eindhoven, www.tue.nl/map