

Michel R.V. Chaudron  
Full Professor, Full Professor  
Engineering of Software-Intensive Systems  
Software Engineering and Technology  
EAISI Foundational  
EAISI High Tech Systems  
**Email:** m.r.v.chaudron@tue.nl



## Employment

### Full Professor

Full Professor  
Engineering of Software-Intensive Systems  
Eindhoven University of Technology  
1 Jul 2020 → present

## Research outputs

### From Expert to Novice: An Empirical Study on Software Architecture Explanations

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### Layered BubbleTea Software Architecture Visualisation

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### Generating domain models from natural language text using NLP: a benchmark dataset and experimental comparison of tools

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### Arvisan: an Interactive Tool for Visualisation and Analysis of Low-Code Architecture Landscapes

Kakkenberg, R., Rukmono, S. A., Chaudron, M. R. V., Gerholt, W., Pinto, M. & de Oliveira, C. R., 31 Oct 2024, *MODELS Companion '24: Proceedings of the ACM/IEEE 27th International Conference on Model Driven Engineering Languages and Systems*. New York: Association for Computing Machinery, Inc, p. 848-855 8 p.

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### Deductive Software Architecture Recovery via Chain-of-thought Prompting

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**Achieving High-Level Software Component Summarization via Hierarchical Chain-of-Thought Prompting and Static Code Analysis**

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**Enabling Analysis and Reasoning on Software Systems through Knowledge Graph Representation**

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**Design thinking and creativity of colocated versus globally distributed software developers**

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**Process Mined from Jira Issues at a Large Company.**

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**The influence of software design representation on the design communication of teams with diverse personalities**

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**Human values in software development artefacts: A case study on issue discussions in three Android applications**

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**Automatic Anti-Pattern Detection in Microservice Architectures Based on Distributed Tracing**

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#### **Integration of design smells and role-stereotypes classification dataset**

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#### **From Prose to Prototype: Synthesising Executable UML Models from Natural Language**

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#### **Preface to 2nd International Workshop on Analytics and Mining of Model Repositories (AMMoRe 2020)**

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#### **COTS selection best practices in literature and in industry**

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#### **Encrypted shared data spaces**

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#### **PARS : a process algebraic approach to resources and schedulers**

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#### **Second International Workshop on Model Size Metrics**

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#### **Adaptive runtime fault management for service instances in component-based software applications**

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#### **An experimental evaluation of self-managing availability in shared data spaces**

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#### **A qualitative investigation of UML modeling conventions**

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#### **Language-based access control approach for component-based software applications**

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### **Effects of defects in UML models**

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### **Effects of defects in UML models : an experimental investigation**

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### **A framework for formal component-based software architecting**

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## **Activities**

### **Second International Workshop on Analytics and Mining of Model Repositories (AMMoRe)**

Babur, Ö. (Chair), Cleophas, L. G. W. A. (Chair), Chaudron, M. R. V. (Chair), Iovino, L. (Chair) & Kolovos, D. (Chair)  
16 Oct 2020

### **International Workshop on Analytics and Mining of Model Repositories (AMMoRe)**

Babur, Ö. (Organiser), Chaudron, M. R. V. (Organiser), Cleophas, L. (Organiser), Di Ruscio, D. (Organiser) & Kolovos, D. (Organiser)  
16 Oct 2018

### **Jacquard 2005, Zeist, The Netherlands**

Chaudron, M. (Speaker)  
3 Feb 2005

### **Jacquard 2005, Zeist, The Netherlands**

Chaudron, M. (Speaker)  
3 Feb 2005

### **4th International ERCIM Workshop on Formal Methods for Industrial Critical Systems (FMICS 1999)**

Chaudron, M. (Organiser)  
11 Jul 1999

## Projects

### **Conformance Management of Architecture and Implementation of Complex software**

Chaudron, M. R. V. (Project Manager), Zamfirov, F. (Project member) & Wijekoon Bandara Mudiyansele, S. (Project member)

1/01/21 → 31/08/27

### **"Trust4All"**

Lukkien, J. J. (Project member), Verhoeven, P. H. F. M. (Project member), Bondarau, E. (Project member) & Chaudron, M. R. V. (Project Manager)

1/07/05 → 1/10/07