Dr. Carlo Simon

Professor

Worms, Germany

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Profile

Since 2015, Carlo Simon is Full Professor for Business Information Systems at Hochschule Worms, Germany. Before that, he was Full Professor at the Provadis-School in Frankfurt and part of the management.

With his background in Computer Science and Economics, Simon specialised in modelling, analysis and simulation of dynamic systems with the aid of Petri nets. He also worked as a consultant for strategic process management in the pharmaceutical and chemical industries.

Simon's personal project is the development of an Integrated Management System on the base of Petri nets which is free for academic use and open to industry projects.

Simon wrote three books, several book chapters, conference and journal papers on process management and especially resource triggered process simulation.

Skills

Petri nets

Simulation

Strategic management

Fullstack development

LaTeX

The skill scale is from 0 (Fundamental Awareness) to 5 (Expert).

Experience

Present – 10/2015 — **Full Professor**, Hochschule Worms, University of Applied Science
- Head of the Group for Applied Process Simulation (GAPS)
- Main courses in process management, software development and scientific writing
- Development of the Process-Simulation.Center
- Researcher for process management and simulation

09/2015 – 02/2013 — Vice President, Provadis School of International Management & Technology
- Responsible for Research and Teaching
- Initiating a Master of Science in Technology & Management

09/2015 – 09/2007 — Full Professor, Provadis School of International Management & Technology
- Dean Department of Business Information Management
- Strategic consulting in the Industriepark Höchst

08/2007 – 09/2001 — Post Doc (C1), University Koblenz-Landau
- Habilitating on Negotiation Processes
- Formal specification of timed processes

08/2001 – 04/2001 — Project Manager, SER Technology Deutschland GmbH
- Archiving and Document Management Systems

02/2001 – 03/1996 — Research Assistent, University Koblenz-Landau
- Petri net based methods to prove dynamic systems
- Tool to automatically generate code for controllers from process models

Education

2007 — **Habilitation, Dr. habil.**, University Koblenz-Landau
Thesis: Negotiation Processes

2001 — Ph.D., Dr. rer. nat., University Koblenz-Landau
Thesis: A Logic of Actions and Its Application to the Development of Programmable Controllers

1996 — Diploma in Computer Science, University Koblenz-Landau
Thesis: Programmieren mit Netz-Spezifikationen

IARIA-Publications

2022 — Simon, C.; Haag, S.; Zakfeld, L.: The Process-Simulation.Center. SIM-SC: SIM-SC : Special Tack at SIMUL 2022, pp. 74-77

2022 — Zakfeld, L.; Haag, S.; Simon, C.: Informal Ways to Educate About Formal Modeling and Simulation with Petri Nets. SIM-SC: SIMUL 2022, pp. 38-43

2021 — Simon, C.; Zakfeld, L.; Jensen, C. E.; Klietsch, D.; Montag, M.: Can simulation prevent companies from the bullwhip trap? SIM-SC: Special Tack at SIMUL 2021, pp. 31-37

2021 — Simon, C.; Haag, S.; Zakfeld, L.: Requirements for Highly Integrated Management Systems. SIMUL 2021, pp. 58-64

2021 — Simon, C.; Haag, S.; Zakfeld, L.: Simulation of Push- and Pull-Processes in Logistics. International Journal On Advances in Software. Bd. 14. H. 1&2., pp. 88-106

2020 — Simon, C.; Haag, S.; Zakfeld, L.: Clock Pulse Modeling and Simulation of Push and Pull Processes in Logistics. SIMMaApp : Special Track at SIMUL 2020, pp. 31-36

2020 — Haag, S.; Zakfeld, L.; Simon, C.; Reuter, C.: Event Triggered Simulation of Push and Pull Processes. SIMUL 2020, pp. 68-73

Best Paper Awards

2022 — SIMUL 2022 in Lissabon, Portugal
together with L. Zakfeld and S. Haag

2020 — SIMUL 2020 in Porto, Portugal
together with S. Haag, L. Zakfeld and C. Reuther