Prof. Dr. Claus Pahl

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Current Position

- Full Professor of Software Engineering
- Dean of the Faculty of Computer Science, Free University of Bozen-Bolzano

Recent Academic Management Positions

- Vice-Dean for Research, Faculty of Computer Science (2019 2020)
- Coordinator of the PhD Programme in Computer Science (2017-2020)
- Head of the Software and Systems Research Centre (2017-2020)

Achievements

- Listed among the 1.1% top scientists in a recent study by the University of Stanford¹.
- Listed top 100 of all academics in the areas Computing and Electronics in Italy².
- Published more than 350 papers.
- Obtained an h-index of 48 (according to Google Scholar, May 2021), more than 7300 citations.
- Attracted more than 5.5 million Euros in external research funding from national, international and industry sources.
- Received an Innovation Award from the INVENT centre for SME engagement.
- Received 5 best paper awards/nominations (Cloud & Grid Comp, CCGrid, CloudWays, LODE, IIAS).

Research and Management Positions

- Lead Principal Investigator (IC4) with specific responsibility for the architecture theme, he helped building the national Irish Centre for Cloud Computing and Commerce IC4 a technology centre consisting of 3 universities working with more than 40 industry partners.
- Executive Board Member (Lero) of the Lero Software Research Centre with more than 200 researchers across 7 universities coordinator of the Lero activities at Dublin City University.
- Funded Investigator (ADAPT) at the Centre for Digital Content Technologies ADAPT (and its former incarnation CNGL).
- Director (CloudCORE) of the Cloud Computing Research Centre CloudCORE at Dublin City University.

Research Areas

- Software engineering, focusing on modern software architecture and quality management.
- Service engineering and edge/cloud architectures have served as a specific application context for his software architecture research – looking into migration, self-adaptive architectures, dynamic dependability and performance engineering in this context.
 - Model-driven Software Construction and Management (graph theory, Markov models, fuzzy logic, control theory)
 - o Performance and Dependability in Software Quality Management in self-adaptive distributed edge and cloud architectures
 - o Simulation Techniques and Tools for network and edge-oriented architectures
 - o Machine Learning-driven Software Construction engineering principles and quality control specifically in edge and IoT architectures

¹ https://journals.plos.org/plosbiology/article?id=10.1371/journal.pbio.3000918

² https://www.guide2research.com/scientists/IT

- He also worked on research aspects in *educational technologies*, aiming to bring research expertise into the educational side of academia.
- Currently, he works on the EU H2020 project 5G-CARMEN, where he investigates performance engineering aspects for edge cloud architectures with Cooperative, Connected and Automated Mobility (CCAM) as the application context.

Degrees and Past Employment

- Claus Pahl received an undergraduate degree in Computer Science from the Technical University of Braunschweig in Germany in 1990.
- Between 1991 and 1996 he was employed as a researcher at the Universities of Essen and Dortmund.
- Awarded a *Ph.D.* in Computer Science on the topic of formal specification languages in 1996 from the University of Dortmund.
- Held *academic positions* at Dublin City University, University College Cork, Trinity College Dublin and the Technical University of Denmark, before taking up his position in Bolzano.
- Visiting researcher and guest professor at universities in Oldenburg (Germany), Edinburgh (UK) and Shenyang (China).
- Senior Lecturer at Dublin City University where he held tenured positions from 1999 to 2016.

Reviewing and Evaluation

- Served on 7 journal editorial boards in software engineering and educational technology over time.
- Participated in the conference organisation of more than 200 events.
- Reviewed for more than 35 journals.
- Evaluator for research and innovation 14 projects across 9 countries across Europe, North America and Asia.
- Expert reviewer for 5 EU FP7 and H2020 projects for more than a decade.

Invited Speaker

- Invited speaker and panellist at events such as CLOSER, NC4, SE-CLOUD, SAGRA, WEBIST, ESOCC, Intelligent Cloud Summit and HEANEt (11 conferences, 6 panels, 24 seminar presentations).

Teaching and Administration

- Has been teaching software engineering, programming languages and database technologies across Bachelor and Master degree programs to both computing students and students with interdisciplinary backgrounds.
- Coordinated several Master degree programmes helped to accredited and served as first chairperson of a Master in Software Engineering at Dublin City University.
- Served on many university management committees on research, teaching and technical work programmes.
- Received the DCU Teaching and Learning Fellowship award.

Supervision and Examination

- Supervised 12 PhD Students and 3 MSc by Research (2-year research program) to completion. 4
 PhD students ongoing.
- Examined 24 research theses in Ireland, United Kingdom, the Netherlands, Italy, Australia and Austria.