

Curriculum vitae Dr Claes Wohlin (summary)

General

Dr Claes Wohlin is a full professor of software engineering at Blekinge Institute of Technology (since November 2000).

Dr Wohlin has previously been the holder of professor chairs in software engineering at Linköping University (appointed in 1997) and Lund University (appointed in 1998). The chair at Linköping University was the first chair in Sweden directed towards large-scale software development, and the chair at Lund was the second chair in Sweden. He has been a visiting professor at Chalmers University of Technology from 2005 to 2008, a professorial visiting fellow at the School of Information Systems, Technology and Management within the Australian School of Business at the University of New South Wales in Sydney, Australia, between 2009 and 2011, and a guest professor at Shandong University at Weihai in China between 2013 and 2016.

Dr Wohlin received his Master of Science in Electrical Engineering from Lund University in 1983. In 1986, he received a Licentiate of Engineering degree and his PhD degree in telecommunication systems with a focus on software reliability and performance modelling in 1991, both from Lund University. Dr Wohlin was appointed to docent (associate professor) at Lund University in 1995.

In 2011, he was elected as member number 1618 of the Royal Swedish Academy of Engineering Sciences (IVA) since the academy's inception in 1919.

Dr Wohlin was in October 2020 appointed a board member of the Swedish Foundation for Strategic Research until June 30, 2022. In June 2022, he was appointed for another three years.

International position

Dr Wohlin received the Telenor Nordic Research Award in 2004 based on his achievements in software engineering and improvement of reliability in telecommunication systems.

Based on his publication record, Claes Wohlin is listed as one of the top ten authors with the highest software engineering literature contributions in 1971-2012 in an article published in *Scientometrics* in October 2014.

On several occasions, he has been ranked among the top 15 systems and software engineering scholars by the *Journal of Systems and Software* for his contributions to publications in the leading software engineering journals. Prof. Claes Wohlin has been ranked in the following periods 1998-2002 (No. 14), 1999-2003 (No. 10), 2002-2006 (No. 8), 2003-2007 (No. 9), and finally, 2010-2017 (No. 11) in the experienced researcher category. Furthermore, he is listed as number 8 in terms of impact (citations) among the experienced researchers for the period 2010-2017. He is ranked fifth for his contributions to experimentation in software engineering from 1993 to 2002 in an article in *Transactions on Software Engineering* in September 2005. The *Journal of Systems and Software* also ranks institutions. Dr Wohlin has been instrumental in the ranking of Lund University (12th in the period 1999-2003) and Blekinge Institute of Technology (11th in the period 2002-2006, 5th in the period 2003-2007, 6th in the period 2004-2008, 6th in the period 2010-2017 and 2nd in the period 2013-2020) among the top institutions. Blekinge Institute of Technology is the highest ranked in Europe.

Research leader

In 1993, Dr Wohlin founded the software engineering research group at Lund University. He directed the research group until moving to Blekinge Institute of Technology in 2000. He was responsible for the growth of the research and education in software engineering at Lund University from 1993 until 2000. He headed the Software Engineering Research Lab at Blekinge Institute of Technology from 2000 until 2013. Under Dr Wohlin's leadership, the group grew from four people in 2000 to 25 in 2013. The research group has, together with a handful of teachers, become a department at Blekinge Institute of Technology within the Faculty of Computing from January 1, 2014.

As a research leader, Dr Wohlin, and his research groups, have successfully attracted research funding from both national and international agencies as well as industry. Dr Wohlin was the primary applicant for a large research project (BESQ) funded by the Knowledge Foundation. The total size of the project, including matching funds (mostly in-kind) from industry, was 86 million SEK over 6.5 years, i.e., July 1, 2002, until December 31, 2008. From 2009 to 2019, he was the principal applicant or project manager for research projects, being granted close to 100 million SEK in external funding (approximately 10 million Euros).

Dr Wohlin's main research interests are empirical methods and studies, software management, agile methods, software metrics, software process assessment and improvement, requirements engineering, software quality and global software engineering.

Authorship

Dr Wohlin is the principal author of the book "Experimentation in Software Engineering" published by Springer in 2012. The book is a revision and update of "Experimentation in Software Engineering – An Introduction", published by Kluwer Academic Publishers, Boston, MA, in the USA in 2000. The book has been translated into Chinese, and the Chinese edition was released in 2015. The book is the leading methodology book in software engineering, with more than 9000 citations. He is the author of a Swedish software engineering textbook published by Studentlitteratur in 2005. He is an editor of two books together with colleagues from Australia: "Managing Software Engineering Knowledge" published by Springer Verlag in 2003, and "Engineering and Managing Software Requirements" published by Springer Verlag in 2005, and an editor of one book with a Canadian colleague titled: "Software Project Management in a Changing World" published by Springer Verlag in 2014.

He is the principal author or co-author of 100 international journal publications and more than ten book chapters. Dr Wohlin regularly publishes himself at international conferences and workshops in software engineering. The total number of meeting publications, most with a thorough review process, is more than 130 articles. It includes both invited papers and regular submissions. His total number of peer-reviewed publications internationally exceeds 240 articles.

Dr Wohlin has been a keynote speaker at the European Software Control and Metrics conference in Munich, Germany, in 2000, the conference on Empirical Assessment in Software Engineering at Keele University, the UK, in 2001, and the 37th Euromicro Conference on Software Engineering and Advanced Applications in August 2011. In 2013, he was the keynote speaker at the 17th International Conference on Evaluation and Assessment in Software Engineering in Porto de Galinhas, Brazil and the 8th International Joint Conference on Software Technologies in Reykjavik, Iceland. He was a keynote speaker at the 10th International Symposium on Empirical Software Engineering and Measurement in Ciudad Real, Spain, in 2016. In 2017, he held the academic keynote at the 18th International Conference on Agile Software Development in Cologne, Germany and the Lero (Irish Software Research Center) Annual Seminar in Athlone, Ireland. In 2018, he was a keynote speaker at the 22th Conference on Evaluation and Assessment in Software Engineering in Christchurch, New Zealand. In 2023, he is invited to give a keynote talk at the 31st IEEE International Requirements Engineering conference in Hannover, Germany.

He has an h-index of 65 in "My Citations" in Google Scholars. The book on Experimentation in Software Engineering has more than 9000 citations, and the total number of citations exceeds 29000.

Education

In postgraduate education, including licentiate and doctoral exams, Dr Wohlin has been the principal advisor for 15 doctoral exams and the advisor for nine doctoral exams. The exams include degrees awarded at Lund University, Linköping University and Blekinge Institute of Technology. Dr Wohlin has more than 30 academic grandchildren on the doctoral level, i.e., students finishing their degrees with former doctoral students of Dr Wohlin as the principal advisor or advisor. As part of the postgraduate education, Dr Wohlin has given more than ten different courses within the doctoral program. Today, seven of his former PhD students are full professors at different universities.

In the master programs at Lund University, Dr Wohlin has initiated new courses, improved existing courses and been the responsible lecturer for several courses, both in performance analysis and software engineering. In 1995, the large-scale software development course under the management of Dr Wohlin was voted the best course in the Computer Science and Engineering program at Lund University. He has, since 1993, advised 55 master theses in software engineering at different universities. Dr Wohlin was the initiator of a bachelor program in software engineering launched at Lund University (campus in Helsingborg) in 1998. At BTH, he has provided courses and been responsible for the Master theses in software engineering. The teaching at Blekinge Institute of Technology has been limited by other commitments such as being pro-vice-chancellor (prorector) and dean, as well as being successful in attracting external research funding.

Industrial experience

To complement his academic career, he has five years of industrial experience in software development, quality management and as a software engineering consultant. Dr Wohlin's industrial work has included being the software quality manager for the first release of the Base Station Controller of the GSM system at Ericsson. Besides, he has worked as an expert consultant with statistical usage testing, process assessment and evaluation, and system management issues for a new generation of telecom networks at Ericsson at the beginning of the 1990s. On four occasions, he has been contracted to be part of a team doing a worldwide assessment of the software development of an international company in process automation.

Evaluator

Dr Wohlin is regularly invited to perform different evaluations as an expert reviewer. It includes being on doctoral committees, an expert reviewer for promotions to different professor levels, an evaluator of research project proposals and a quality evaluator. Dr Wohlin has been an evaluator of 33 doctoral theses in Sweden, Norway, Finland, The Netherlands, Italy, Singapore and Australia. He has been an expert reviewer for 25 professor chairs and promotions to full professor or guest professors in Sweden, Norway, Finland, the UK, The Netherlands and the USA. Moreover, he has been an expert reviewer for 16 positions or promotions to assistant/associate professor in Sweden, Austria, the UK and Australia. Dr Wohlin has acted as a reviewer of research project proposals from Sweden (incl. the Vinnova Excellence Centre applications in the ICT area), Norway, Finland, The Netherlands, Hong Kong, Qatar, Australia and the USA (NSF).

Dr Wohlin was vice-chairman of an evaluation panel for research projects in computer science at the Swedish Research Council in 2016. He was on a review panel for research proposals in computer science at the Academy of Finland in 2017 and 2018.

Community service

Dr Wohlin was the Editor-in-Chief of the Information and Software Technology journal, published by Elsevier from 2008 to 2015. Before becoming the Editor-in-Chief, he was Co-Editor-in-Chief since 2001. When stepping down from being Editor-in-Chief, Dr Wohlin was appointed Special Content Editor (managing special issues and special sections) from 2016 to 2018. After stepping down as editor, he was appointed emeritus editor to honour his contributions to the journal. He has been on the editorial board for three other journals: Software Quality Journal (2002-2018), Requirements Engineering Journal (2005-2018) and Empirical Software Engineering: An International Journal (2002-2010). Springer Verlag, Germany, publishes all these three journals. Dr Wohlin has been the guest editor for special issues or special sections for Transactions on Software Engineering, Information and Software Technology, Software Quality Journal, and Empirical Software Engineering: An International Journal.

Dr Wohlin was the program chair for the International Software Metrics Symposium in London, the UK, in 2001; publicity chair for the International Conference on Software Engineering Education & Training in Madrid, Spain, in 2003; program chair for the International Symposium on Empirical Software Engineering in Rio de Janeiro, Brazil in 2006 and foremost responsible for the International

Advanced School of Empirical Software Engineering, which was co-located together with the International Symposium on Empirical Software Engineering and Measurement in Madrid in 2007. Furthermore, he was the research program chair for XP 2012 in Malmö, Sweden. In 2014, he was the program co-chair for the International Conference on Software Testing in Cleveland, USA. Dr Wohlin has, over the years, been on approximately 3-5 program committees each year for international conferences in software engineering. In total, he has been on more than 100 program committees. Dr Wohlin is a regular reviewer, in addition to those where he serves on the editorial board or as an editor, for some of the leading journals in software engineering, including IEEE Transactions on Software Engineering, ACM Transactions on Software Engineering and Methodology, Journal of Systems and Software and IEEE Software.

University management

Dr Wohlin was pro-vice-chancellor (prorector) of Blekinge Institute of Technology for six years (2004-2010). He supported the vice-chancellor primarily concerning the university's strategic development and acting as the substitute for the vice-chancellor when needed.

When Blekinge Institute of Technology reorganised on January 1, 2014, into three faculties with 12 departments, he became the first dean of the newly created Faculty of Computing. Later, the faculties were merged into two faculties (the Faculty of Computing stayed unchanged), and some departments merged. Dr Wohlin was re-elected to serve as the dean of the Faculty of Computing, and in total, he served as dean for five years (2014-2018). The dean was responsible for education, research and recruitment within the faculty. As dean, he was part of the university management team.

Moreover, Dr Wohlin served as the first dean for Undergraduate and Graduate Education at Blekinge Institute of Technology, which included chairing the Board for Undergraduate and Graduate Education. He has also been on several other boards, including the University Board at Blekinge Institute of Technology, one of the research boards at Lund University, employment and promotion boards at both Lund University and Blekinge Institute of Technology, and the Faculty Board at Blekinge Institute of Technology (before the re-organisation in 2014).