Øystein Haugen

Born
17th February 1955, Bergen, Norway

Nationality
Norwegian

Present position
Senior Researcher, SINTEF and part time Associate Professor, Univ. Of Oslo

Academic degrees
Cand Real., Dept. of Informatics, Univ. of Oslo, 1980
Dr. Scient. , Dept. of Informatics, Univ. of Oslo, 1997

Work experience

University of Oslo	Scientific assistant	1980 - 1981
Norwegian Computing Center	Researcher	1981 - 1984
SimTech	Project Leader	1984 - 1988
EB Technology	Senior Researcher	1988 - 1990
NTNF	PhD-grant	1990 - 1996
Self-employed	Consultant	1990 – 1997
Ericsson AS	Principal Researcher	1997 – 2003
University of Oslo	Part-time Associate Professor	1998 – 2003
University of Oslo	Associate Professor	2004 – 2009
SINTEF	Senior Researcher	2007 –
University of Oslo	Part-time Associate Professor	2009 –

Fields of interest and present research activities

Fields of interest

Dr. Haugen has an interest in the creation and application of modelling languages. He has taken part in the evolution of general languages SDL (ITU Specification and Description Language), MSC (Message Sequence Charts) and UML (Unified Modeling Language), and of domain specific languages TCL (Train Control Language) and CVL (Common Variability Language).

Research activities

Currently Dr. Haugen is engaged in the design of the Common Variability Language. He leads the OMG (Object Management Group) standardization effort in the area based on the ITEA research project MoSiS results. The submission consortium includes partners from all corners of the earth from Canada to India and with both academic and industrial partners.

Dr. Haugen is also involved in research projects where modelling is applied in sharp industrial settings with the purpose of improving the engineering methods. In particular Dr. Haugen has been working with product line engineering over the last years.

Portion of time dedicated to research

Dr. Haugen is only a part time Associate Professor at the Dept. of Informatics. The 20% are fairly evenly divided between teaching and participation in research. In his main position at SINTEF almost all his time is devoted to application oriented research in projects where also Department of Informatics have been participating such as MoSiS.

Membership in academic and professional committees, scientific review work
- including peer-review, outreach activities, and other professional merits

Committees 2010-2011

- Program Committees 2011
  - MODELS 2011 (Conference)
  - SDL Forum (Conference)
  - ATOP (Workshop)
  - MAPLE (Workshop)
  - Variability (Workshop)
  - PLEASE (Workshop)
  - PLREQ11 (Workshop)
  - VAMOS (Workshop)
  - EduSymp at MODELS 2011 (Educators' Symposium)
- Program Committees 2010
  - **General Chair** of MODELS 2010 (Conference)
  - SPLC (Conference)
  - TAOSD (Workshop)
  - SAM (Workshop)
  - PLREQ10 (Workshop)
  - NWMoDE (Workshop)
  - EduSymp (Symposium)
  - PLEASE (Workshop)
  - PESOS (Workshop)
  - ATOP (Workshop)

Scientific review work

Opponent for

- Adrian Rutle, University of Bergen, 2010

Administrator of committees for PhDs

- Demissie Aredo, 2002 and 2005

Other

- SoSyM, Journal by Springer, Editor and Reviewer
- Springer, reviewer for proposed book (2011)
- NSERC, reviewer for the Canadian research authorities (2010)
- Nordic Journal of Computing (Reviewer)
- IEEE Transactions on Software Engineering (Reviewer)
- Veni, reviewer for the Dutch research authorities (2008)

- INRIA, reviewer expert for internal French evaluation of INRIA research groups (2008)
- Wiley, reviewer of written book (2007)
- Morgan Kaufmann/OMG Press, reviewer and consultant on book (2007)
- Evaluation of two researchers for the position of "Senior Researcher" at SINTEF (2006) (while being full time Associate Professor at UiO)

Doctoral students presently under (main) supervision

- Xiaorui Zhang in MoSiS project
- Martin Fagereng Johansen in VERDE project

Selected academic and professional publications 2006-2010

2010

1. **Petriu, Dorina C.; Rouquette, Nicolas; Haugen, Øystein.**
Model Driven Engineering Languages and Systems. Springer 2010 (ISBN 978-3-642-16144-5) 424 s.

2. **Petriu, Dorina C.; Rouquette, Nicolas; Haugen, Øystein.**
Model Driven Engineering Languages and Systems (Part 2). Springer 2010 (ISBN 978-3-642-16128-5) 422 s. Lecture Notes in Computer Science = Lecture notes in artificial intelligence(6395)

3. **Svendsen, Andreas; Zhang, Xiaorui; Lind-Tviberg, R.; Fleurey, Frank; Haugen, Øystein; Møller-Pedersen, Birger; Olsen, Gøran K..**
Developing a Software Product Line for Train Control: A Case Study of CVL.. I: *Software Product Lines: Going Beyond. 14th International Conference, SPLC 2010.*. Springer 2010 ISBN 978-3-642-15578-9. s. 106-120

2009

4. **Fleurey, F.; Haugen, Øystein; Møller-Pedersen, Birger; Olsen, G. K.; Svendsen, Andreas.**
A Generic Language and Tool for Variability Modeling. : SINTEF 2009 (ISBN 978-82-14-04457-7)

5. **Haugen, Øystein; Runde, Ragnhild Kobro.**
Enhancing UML to Formalize the FIPA Agent Interaction Protocol. *Lecture Notes in Business Information Processing* 2009 ;Volum 25. s. 154-173

6. **Oldevik, Jon; Haugen, Øystein.**
From sequence diagrams to Java-stairs aspects. I: *Proceedings of the 8th ACM international conference on Aspect-oriented software development*. ACM Press 2009 ISBN 978-1-60558-442-3. s. 99-110

7. **Oldevik, Jon; Haugen, Øystein; Møller-Pedersen, Birger.**
Confluence in Domain-Independent Product Line Transformations. I: *Fundamental Approaches to Software Engineering*. Springer 2009 ISBN 978-3-642-00592-3. s. 34-48

7b. **Haugen Øystein**. Model Analysis - Why and How?. *Telektronikk* 1.09, 49-58. 2009

2008

8. **Endresen, Jan; Carlson, Erik; Moen, Thomas; Alme, Kjell-Joar; Haugen, Øystein; Olsen, Gøran K.; Svendsen, Andreas.**
Train Control Language - teaching computers interlocking. I: *Computers in Railways XI*. WIT Press 2008 ISBN 978-1-84564-126-9. s. 651-660

9. **Haugen, Øystein; Møller-Pedersen, Birger; Oldevik, Jon; Olsen, Gøran K.; Svendsen, Andreas.**
Adding Standardized Variability to Domain Specific Languages. I: *Proceedings of the 12th International Software Product Line Conference, SPLC 2008*. IEEE Computer Society 2008 ISBN 978-0-7695-3303-2. s. 139-148
10. **Svendsen, Andreas; Olsen, Gøran K.; Endresen, Jan; Moen, Thomas; Carlson, Erik; Alme, Kjell-Joar; Haugen, Øystein.**
The Future of Train Signaling. *Lecture Notes in Computer Science = Lecture notes in artificial intelligence* 2008 ;Volum 5301. s. 128-142
11. **Haugen, Øystein.**
Challenges to UML 2 to describe FIPA Agent protocol. ATOP @ AAMOS 2008; 2008-05-13 - 2008-05-13
12. **Oldevik, Jon; Haugen, Øystein.**
Semantics Preservation of Sequence Diagram Aspects. I: *Model Driven Architecture – Foundations and Applications*. Springer 2008 ISBN 978-3-540-69095-5. s. 215-230
13. **Sanders, Richard; Haugen, Øystein.**
Milestones: Mythical Signals in UML to Analyze and Monitor Progress. *Lecture Notes in Computer Science = Lecture notes in artificial intelligence* 2008 ;Volum 5377. s. 110-121

2007

14. **Baker, Paul; Dai, Zhen Ru; Grabowski, Jens; Haugen, Øystein; Schieferdecker, Ina; Williams, Clay E..**
Model-Driven Testing. Using the UML Testing Profile.. Springer 2007 (ISBN 978-3-540-72562-6) 194 s.
15. **Graf, S; Gerard, Sebastien; Haugen, Øystein; Ober, I; Selic, Bran.**
Modelling and Analysis of Real Time and Embedded Systems – Using UML. *Lecture Notes in Computer Science = Lecture notes in artificial intelligence* 2007 ;Volum 4364. s. 126-130
16. **Halvorsen, Oddleif; Runde, Ragnhild Kobro; Haugen, Øystein.**
Time Exceptions in Sequence Diagrams. *Lecture Notes in Computer Science = Lecture notes in artificial intelligence* 2007 ;Volum 4364. s. 131-142
17. **Oldevik, Jon; Haugen, Øystein.**
Architectural Aspects in UML. *Lecture Notes in Computer Science = Lecture notes in artificial intelligence* 2007 ;Volum 4735. s. 301-315
18. **Oldevik, Jon; Haugen, Øystein.**
Higher-Order Transformations for Product Lines. I: *SPLC 2007*. IEEE Computer Society 2007 ISBN 0-7695-2888-0. s. 243-252

2006

19. **Bayer, Joachim; Gerard, Sebastien; Haugen, Øystein; Mansell, Jason; Møller-Pedersen, Birger; Oldevik, Jon; Tessier, Patrick; Widen, Tanya.**
Consolidated Product Line Variability Modeling. I: *Software Product Lines. Research Issues in Engineering and Management*. Springer 2006 ISBN 3-540-33252-9. s. 195-241
20. **Gerard, Sebastien; Graf, S; Haugen, Øystein; Ober, I; Selic, Bran.**
MARTES 2006 at MoDELS 2006 - International workshop on Modeling and Analysis of Real-Time and Embedded Systems. Oslo: Department of Informatics

2006 (ISBN 82-7368-299-4) 174 s. Conference proceedings (Universitetet i Oslo. Institutt for informatikk)(343)
21. **Graf, S; Gerard, S; Haugen, Øystein; Ober, I; Selic, B.**
Modeling and analysis of real-time and embedded systems. *Lecture Notes in Computer Science = Lecture notes in artificial intelligence* 2006 ;Volum 3844.
22. **Graf, S; Haugen, Øystein; Ober, Ileana; Selic, Bran.**
Preface of "Specification and Validation of Real Time and Embedded systems in UML". *International Journal on Software Tools for Technology Transfer (STTT)* 2006 ;Volum 8.(2) s. 93-96
23. **Halvorsen, Oddleif; Haugen, Øystein.**
Proposed Notation for Exception Handling in UML 2 Sequence Diagrams. I: *2006 Australian Software Engineering Conference*. IEEE Computer Society 2006 ISBN 0-7695-2551-2. s. 29-38
24. **Halvorsen, Oddleif; Runde, Ragnhild Kobro; Haugen, Øystein.**
Time Exceptions in Sequence Diagrams. I: *MARTES 2006 at MoDELS 2006 - International workshop on Modeling and Analysis of Real-Time and Embedded Systems*. Oslo: Department of Informatics 2006 ISBN 82-7368-299-4. s. 81-100
25. **Haugen, Øystein.**
Teaching modeling of reactive systems. MoDELS2006 Educators' Symposium; 2006-10-02 - 2006-10-02
26. **Haugen, Øystein; Møller-Pedersen, Birger.**
Configurations by UML. *Lecture Notes in Computer Science = Lecture notes in artificial intelligence* 2006 ;Volum 4344. s. 98-113
27. **Haugen, Øystein; Møller-Pedersen, Birger.**
Configurations by UML. European Workshop on Software Architectures; 2006-09-04 - 2006-09-05
28. **Haugen, Øystein; Møller-Pedersen, Birger.**
Modeling Variability - From Direct Modeling to Generative Modeling. NIK - Norsk Informatikkonferanse; 2006-11-20 - 2006-11-22
29. **Haugen, Øystein; Møller-Pedersen, Birger.**
Modeling Variability - From Direct Modeling to Generative Modeling. I: *NIK'2006 : Norsk informatikkonferanse*. Tapir Akademisk Forlag 2006 ISBN 82-519-2186-4.
30. **Oldevik, Jon; Solberg, Arnor; Haugen, Øystein; Møller-Pedersen, Birger.**
Evaluation Framework for Model-Driven Product Line Engineering Tools. I: *Software Product Lines. Research Issues in Engineering and Management*. Springer 2006 ISBN 3-540-33252-9. s. 589-618
31. **Runde, Ragnhild Kobro; Haugen, Øystein; Stølen, Ketil.**
The pragmatics of STAIRS. *Lecture Notes in Computer Science = Lecture notes in artificial intelligence* 2006 ;Volum 4111. s. 88-114