

## Most Recent Publications

1. Johan Dovland, Einar Broch Johnsen, Olaf Owe and Martin Steffen: *Encapsulating Lazy Behavioral Subtyping*. Festschrift for Bernd Krieg-Bruckner. Invited contribution. To appear.
2. Einar Broch Johnsen, Jasmin C. Blanchette, Marcel Kyas, O. Owe: *Intra-Object versus Inter-Object: Concurrency and Reasoning in Creol*. Invited talk, 2nd Intl. Workshop on Harnessing Theories for Tool Support in Software 2008. To appear in [ENTCS](#)<sup>1</sup>.
3. Olaf Owe, and Gerardo Schneider: Wrap your Objects Safely. Accepted to FESCA'09 (6th International Workshop on Formal Engineering approaches to Software Components and Architectures, Satellite event of ETAPS, 28th March 2009, York, UK). To appear in [ENTCS](#) (16 pages), 2009.
4. Johan Dovland, Einar Broch Johnsen, Olaf Owe and Martin Steffen: Incremental Reasoning for Multiple Inheritance. Accepted to iFM'09, (7th International Conference on integrated Formal Methods, Feb. 2009). To appear in [LNCS](#)<sup>2</sup>.
5. Einar Broch Johnsen, Olaf Owe, Joakim Bjørk and Marcel Kyas: An Object-Oriented Component Model for Heterogeneous Nets. Proc. 6th Intl. Symp. on Formal Methods for Components and Objects (FMCO 2007). [LNCS](#) 5382, pages 257-279. 2008.
6. Johan Dovland, E.B. Johnsen, O. Owe and Martin Steffen: Lazy Behavioral Subtyping, In FM 2008: Formal Methods, [LNCS](#) volume 5014 (pages 52–67), 2008.
7. Jasmin C. Blanchette, O. Owe: An Open System Operational Semantics for an Object-Oriented and Component-Based Language, In *Proceedings of Fourth International Workshop on Formal Aspects of Component Software (FACS'07)*, Sophia-Antipolis, France, Sept. 2007. [ENTCS](#), Volume 215, pages 151-169, 2008.
8. Pablo Giambiagi, Olaf Owe, Anders P. Ravn, and Gerardo Schneider. Contract-oriented software development for internet services. [ERCIM News - Special: The Future WEB](#) (Newsletter of the European Research Consortium for Informatics and Mathematics) 2008;72:48
9. Anders Moen Hagalisletto, O. Owe: Local deduction of trust. In *Proceedings of the 2nd International Workshop on Security and Rewriting Techniques (SecReT'07)*, Paris, France, July 2007. (Editors: Ralf Treien and Monica Nesi).
10. Arild Torjusen, O. Owe, Gerardo Schneider: Towards integration of XML in the Creol object-oriented language, In *Norsk Informatikkonferanse 2007 (NIK'07 proceedings)*. Tapir Akademisk Forlag, pages 107-111.
11. O. Owe, G. Schneider, M. Steffen: Components, Objects, and Contracts, *Sixth International Workshop on Specification and Verification of Component-Based Systems (SAVCBS 2007)*, Dubrovnik, Croatia, Sept 4-6, 2007. [ACM](#) ISBN 978-1-59593-721-6, pages 95-99, 2007.
12. Johan Dovland, Einar Broch Johnsen, O. Owe: Observable Behavior of Dynamic Systems: Component Reasoning for Concurrent Objects, Proc. *Workshop on the Foundations of Interactive Computation (FInCo'07)*. [ENTCS](#) 203:19-34, 2008. © Elsevier.
13. E.B. Johnsen, O. Owe, Arild B. Torjusen, Validating Behavioral Component Interfaces in Rewriting Logic, [Fundamenta Informaticae](#) 82 volume 4: 341-359. © IOS Press, 2008. (Extended version of [18].)
14. E.B. Johnsen, O. Owe: An Asynchronous Communication Model for Distributed Concurrent Objects, [Journal of Software and Systems Modeling](#) 6(1): 39-58, 2007. © Springer. (Extended version of SEFM-paper).
15. Pablo Giambiagi, O. Owe, Gerardo Schneider, Anders Ravn: Language-Based Support for Service Oriented Architectures: Future Directions. *ICSOFTE-2006, September (11-14) 2006 in Setubal, Portugal*. *ICSOFTE (1): Institute for Systems and Technologies of Information, Control and Communication 2006*. INSTICC Press, ISBN 972-8865-69-4, p. 339-344.

<sup>1</sup>Electronic Notes in Theoretical Computer Science © Elsevier

<sup>2</sup>Lecture Notes in Computer Science © Springer.

16. Ingrid Chieh Yu, E.B. Johnsen, O. Owe: Type-Safe Runtime Class Upgrades in Creol, *Proc. 8th. Intl. Conf. on Formal Methods for Open Object-based Distributed Systems (FMOODS 2006)*, LNCS 4037:202-217, 2006.
17. E.B. Johnsen, O. Owe, I.C. Yu: Creol: A type-safe object-oriented model for distributed concurrent systems, *Theoretical Computer Science* 365:23-66. 2006. Elsevier.
18. E.B. Johnsen, O. Owe, A.B. Torjusen: Validating Behavioral Component Interfaces in Rewriting Logic. *ENTCS* 159:187-204, 2006.
19. E.B. Johnsen, O. Owe, and Eyvind W. Axelsen: A Run-time Environment for Concurrent Objects with Asynchronous Method Calls, *ENTCS* 117:375-392. Elsevier, 2005.
20. E.B. Johnsen, O. Owe, A.B. Torjusen: Validating Behavioral Component Interfaces in Rewriting Logic. *Proceedings of The 1st IPM International Workshop on Foundations of Software Engineering (FSEN'05)*. *ENTCS* 159:187-204, 2006. © Elsevier.
21. E.B. Johnsen, O. Owe: A Dynamic Binding Strategy for Multiple Inheritance and Asynchronously Communicating Objects. In: *Formal Methods for Components and Objects: Third International Symposium, FMCO'04, Leiden, The Netherlands, Nov. 2-5, 2004, Revised Lectures*. (Eds. Bonsangue et al) LNCS 3657, p. 274-295, 2005.
22. E.B. Johnsen, O. Owe, and Isabelle Simplot-Ryl: A Dynamic Class Construct for Asynchronous Concurrent Objects, *Proc. 7th Intl. Conf. on Formal Methods for Open Object-Based Distributed Systems (FMOODS 2005)*. LNCS 3535, pp. 15-30, 2005.
23. J. Dovland, E.B. Johnsen, and O. Owe: Verification of Concurrent Objects with Asynchronous Method Calls, *Proc. Intl. Conf. on Software Science, Technology & Engineering (SwSTE 2005)*. IEEE Computer Society Press, Feb. 2005. p. 141-151
24. E.B. Johnsen and O. Owe: Inheritance in the Presence of Asynchronous Method Calls, *Proc. 38th Hawaii Intl. Conf. on System Sciences (HICSS 2005)*. IEEE Computer Society Press, 2005.
25. Demissie Aredo, O. Owe: Model based verification in the development of dependable systems, *Proc. Intl. Conference on Information Technology (ITCC 2005), Software Engineering Track, April 4-6, 2005, Las Vegas, USA*, pp. 327-334. IEEE Computer Society Press, 2005.
26. E.B. Johnsen and O. Owe: An Asynchronous Communication Model for Distributed Concurrent Objects, *Proc. 2nd Intl. Conf. on Software Engineering and Formal Methods (SEFM 2004)*, pp. 188-197. IEEE Computer Society Press, 2004.
27. E.B. Johnsen, O. Owe, and Eyvind W. Axelsen: A Run-time Environment for Concurrent Objects with Asynchronous Method Calls, *Proc. 5th Intl. Workshop on Rewriting Logic and its Applications (WRLA 2004)*.
28. J. Dovland, E.B. Johnsen, and O. Owe: Reasoning about Asynchronous Method Calls and Inheritance, *Proc. Norsk Informatikkonferanse (Norwegian Informatics Conference) (NIK'04)*. Tapir publ. co. 2004.
29. E. W. Axelsen, E.B. Johnsen and O. Owe: Toward Reflective Application Testing in Open Environments, *Proc. Norsk Informatikkonferanse (NIK'04)*. Tapir publ. co., 2004.
30. O. Owe: The CREOL approach to open distributed systems. *Invited talk to the Monterey Workshop, Vienna, Austria, Oct. 4-7, 2004*. <http://www-step.stanford.edu/Vienna>.
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32. J. Dovland, E.B. Johnsen, O. Owe. A Hoare logic for distributed objects with Asynchronous Method Calls, *NWPT'04, Uppsala, Sweden, Oct 6-8 2004*.
33. O. Owe. Minnetale over professor Ole-Johan Dahl. *Invited talk at the Norwegian Academy of Sciences, Feb. 2003. Publ. in The Norwegian Academy of Sciences' Annual Book of 2004*.
34. E.B. Johnsen, O. Owe, and Marte Arnestad. Combining Active and Reactive Behavior in Concurrent Objects, *Proc. Norsk Informatikkonferanse (NIK'03)*, Tapir 2003.

35. E.B. Johnsen, Wenhui Zhang, O. Owe, Demissie Aredo. Combining Graphical and Formal Development of Open Distributed Systems, *Proc. 3rd Intl. Conf. on Integrated Formal Methods (IFM 2002)*, Finland, LNCS 2335, pp. 319-338. 2002.
36. E.B. Johnsen, O. Owe, Composition and Refinement of Partial Object Specifications, *Proc. Intl. Parallel and Distributed Programming Symposium (IPDPS 2002)*, 7th Intl. Workshop on Formal Methods for Parallel Programming: Theory and Applications (FMPPTA 2002), IEEE Computer Society Press, 2002. (Full version: Research Report 301, Dept. of Informatics, Univ. of Oslo, 2002.)
37. E.B. Johnsen, O. Owe, A Compositional Formalism for Object Viewpoints, *Proc. Formal Methods for Open Object-based Distributed Systems (FMOODS 2002)*, pp. 45-60. Klüwer Academic Publisher, 2002.
38. E.B. Johnsen, O. Owe, Ellen Munthe-Kaas, Jüri Vain, Incremental Fault-Tolerant Design in an Object-Oriented Setting, *Proc. Asian Pacific Conference on Quality Software (APAQS 2001)*, pp. 223-230. IEEE Computer Society Press, 2001.
39. E.B. Johnsen, Wenhui Zhang, O. Owe, Demissie Aredo, Specification of Distributed Systems with a Combination of Graphical and Formal Languages, *Proc. Asian Pacific Software Engineering Conference (APSEC 2001)*, pp. 105-108. IEEE Computer Society Press, 2001.
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41. Wenhui Zhang, E.B. Johnsen, O. Owe, Demissie Aredo, Integrating UML and OUN for Specification of Open Distributed Systems, poster, *International Symposium on Human-Centric Computing Languages and Environments (HCC 2001)*, p. 122- , IEEE Computer Society Press, 2001.
42. O. Owe, Isabelle Ryl: Reasoning Control in Presence of Dynamic Classes. In the on-line proceedings of the 12th Nordic Workshop on Programming Theory, October 11-13, 2000, Bergen, Norway. (10 pages). Online proceedings: [www.ii.uib.no/~nwpt00](http://www.ii.uib.no/~nwpt00)
43. Ragnhild Kobro Runde, O. Owe: Forenklet, men presis beskrivelse av objekter. Norsk Informatikkonferanse (NIK'00), Tapir forlag, 2000, pages 43-54.
44. O. Owe, I. Ryl: On Combining Object Orientation, Openness and Reliability. Norsk Informatikkonferanse (NIK'99), Tapir forlag, 1999, pages 187-198. (Full version: Research Report 278, Dept. of Informatics, Univ. of Oslo. Nov. 1999. (27 pages).)
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50. O. Owe: Partial Logics Reconsidered: A Conservative Approach, *Formal Aspects of Computing*, 1993, vol. 5, pp. 208-223.
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55. O. Owe, O.-J. Dahl: Generator Induction in Order Sorted Algebras, *Formal Aspects of Computing*, 1991, vol. 3, pp. 2-20.

### Books and Chapters in Books

56. Dave Clarke, Einar Broch Johnsen, and Olaf Owe: Concurrent Objects à la Carte, In Correctness, Concurrency, Compositionality: Essays in honor of Willem-Paul de Roever. *LNCS*, (21 pages). To appear.
57. E.B. Johnsen, O. Owe: Object-Oriented Specification and Open Distributed Systems. In From Object-Oriented to Formal Methods: Essays in Memory of Ole-Johan Dahl, *LNCS* 2635, 2004, pp. 137-164.
58. O. Owe, Stein Krogdahl, Tom Lyche: A biography of Ole-Johan Dahl. In From Object-Oriented to Formal Methods: Essays in Memory of Ole-Johan Dahl, *LNCS* 2635, 2004, pp. 1-14.
59. O.-J. Dahl, O. Owe: Formal Development with ABEL. In VDM’91: Formal Software Development Methods (Tutorials), *LNCS* vol. 552, 1991, pp. 320-362.
60. D.C. Luckham, F.W. von Henke, B. Krieg-Brükner, O. Owe: ANNA: A Language for Annotating Ada Programs, *LNCS* vol. 260, 1987. (143 pages)

### Editorial work

61. Olaf Owe, and Gerardo Schneider, (Eds.): Selected papers from FLACOS’07, *Special Issue, Journal of Logic and Algebraic Programming*. Elsevier. To appear.
62. Einar B. Johnsen, Olaf Owe, and Gerardo Schneider, (Eds.): Selected papers from NWPT’07 Special Issue, *Journal of Logic and Algebraic Programming*. Elsevier. To appear.
63. Einar Broch Johnsen, Owe, O.; Gerardo Schneider (Eds.): NWPT07/Flacos’07 Workshop Proceedings: CopyCat forlag 2007. ISBN 82.7368.324.9. (155 pages)
64. O. Owe, S. Krogdahl, T. Lyche (Eds.): From Object-Oriented to Formal Methods: Essays in Memory of Ole-Johan Dahl, *LNCS* 2635 Festschrift, 2004. (388 pages)
65. Magne Haveraaen, O. Owe (Eds.): Selected papers from the 11th Nordic Workshop on Programming Theory, Bergen, 2000. *Nordic Journal of Computing*, vol. nr. 3, 2001. (131 pages)
66. M. Haveraaen, O. Owe, O.-J. Dahl (Eds.): Recent Trends in Data Type Specification, *LNCS* 1130, 1996. (550 pages)
67. M. Haveraaen, O. Owe (Eds.): Selected papers from the 8th Nordic Workshop on Programming Theory, Oslo 1996. Research report 248, Dept. of Informatics, Univ. of Oslo, 1997. (250 pages)