

Michael E. Caspersen

22 November 1960

Curriculum Vitae

1st August 2017



Michael E. Caspersen is Director of It-vest—networking universities.

He is founder of Center for Computational Thinking at Aarhus University and was Associate Professor in Programming and Programming Didactics at Department of Computer Science at Aarhus University (2008-2016). He is qualified as full professor at University of Copenhagen (2011) and Aarhus University (2015).

Michael has previously held positions as director of Centre for Science Education (2009-2015), director of graduate engineering studies (2008-2009) at the Faculty of Science, and director of It-vest at Aarhus University (2002-2008).

He holds a PhD in computer science from Aarhus University; his research interests are in the areas of computing education, programming didactics, programming methodology, and object-oriented programming.

Michael has published almost 60 papers on computer science education and is co-author of a two-volume textbook on programming and co-editor of "Reflections on the Teaching of Programming" published by Springer-Verlag, 2008—a novel and innovative collection of contributions that address perspectives, research, and experience on programming education.

He has chaired ten international conferences on computing education, served on more than 40 program committees, and is member of the editorial board of the international research journal Computer Science Education.

Michael is member of the Executive Board of Informatics Europe, co-chair of the Committee on European Computing Education established jointly by ACM Europe and Informatics Europe, and he is member of the ACM Education Council.

Since 2009, Michael has been heavily involved in development of the new informatics subject for Danish high school (curriculum development and teacher training). In 2017, by personal invitation from the Minister of Education, he was chairman for the group developing a new informatics subject for lower secondary school in Denmark.

Personal information

Born 22 November 1960, Svendborg, Denmark. Danish citizen. Civil status: married to Susanne (1984); two children: Christina (1985) and Christopher (1989).

Languages: fluent in Danish and English, working knowledge of German.

Contact information

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E-mail: mec@it-vest.dk. Web: www.cs.au.dk/~mec/. Phone: +45 7027 6852. Mobile: +45 2338 2067.

Career

2017-	Director of It-vest—networking universities
2016-2017	Head of Development, It-vest—networking universities
2015	Qualified as Professor, Department of Computer Science, Aarhus University
2011	Qualified as Professor, Faculty of Science, University of Copenhagen
2008-	Associate Professor, Department of Computer Science, Aarhus University
2009-2015	Director, Centre for Science Education, Aarhus University
2008-2009	Director of Aarhus Graduate School of Engineering (AGSE) and Head of Graduate Engineering Studies, Faculty of Science, Aarhus University
2002-2008	Director of IT University West, Aarhus University
2001-2007	Chairman for the Committee of the graduate engineering degree in Technical IT, Department of Computer Science, Aarhus University
2000-2002	Research Manager, B&O-lab, Centre for Pervasive Computing, Department of Computer Science, Aarhus University
1999-2002	Coordinator of IT University West, Department of Computer Science, Faculty of Science, Aarhus University
1998-2000	Academic Researcher, Centre for Object Technology (COT), Department of Computer Science, Aarhus University
1997-1998	Project Manager for Centre for Professional Development and Further Education of College Computing Teachers in Denmark (Efteruddannelses-centeret, EUC)
1995-1996	Professional secretary for the evaluation of computer science degrees in Denmark
1986-1998	Lecturer, School of Informatics, Aarhus Business College

Education

2007	PhD, Computer Science, Aarhus University Dissertation: <i>Educating Novices in the Skills of Programming</i> Principal advisor: Ole Lehrmann Madsen, Aarhus University Co-advisor: David Gries, Cornell University
1987	M.Sc. in Computer Science, Aarhus University Dissertation: <i>Distributed Computations: Model and Method</i> Advisor: Erik Meineche Schmidt
1984	B.Sc. in Computer Science and Mathematics, Aarhus University
2004	Course for Department Chairs, University of Southern Denmark
1990	Pedagogical Diploma for College Teachers

Grants and externally funded projects

Grants where I am/was grant recipient and managing principal investigator.

- Center for Computational Thinking (3.4 MM DKK)
 - External (It-vest – Networking Universities): 3.4 MM DKK
- CSE (2.5 MM DKK)
 - External (Aarhus University Research Foundation): 2.5 MM DKK
- QUEST (12.5 MM DKK)
 - External (Lundbeck, Municipality of Aarhus, Tips & Lotto): 4.5 MM DKK
 - Project participants: 8.0 MM DKK
- Create-IT (2.5 MM DKK)
 - External (Central Denmark Region, It-vest, Google): 2.1 MM DKK
 - Project participants: 0.4 MM DKK
- It-based innovation (1.85 MM DKK)
 - External (It-vest – Networking Universities): 1.85 MM DKK
- UtU (6.67 MM DKK)
 - External (Central Denmark Region): 2.77 MM DKK
 - Project participants: 3.9 MM DKK
- Science-brobygningsprojekt (0.5 MM DKK)
 - External (Danish Ministry of Education): 0.5 MM DKK
- Centre for Professional Development of Computing Teachers in Denmark (0.75 MM DKK)
 - External (Danish Ministry of Education): 0.75 MM DKK

Professional activities

- Member of ACM and IEEE
- 2017- Member of the Executive Board of Informatics Europe
- 2015-2018 Member of the ACM Education Council
- 2013- Co-chair of the joint ACM Europe/Informatics Europe Committee on European Computing Education (CECE)
- 2006-2009 Member of the ACM Education Council
- 2008- Member of the Board of the IEEE Nordic Education Society Chapter
- 2008- Member of the Committee for Computing in High School conducted by the Danish Ministry of Education (fagligt forum for it-fag i gymnasiet)
- 2006- Member of the Editorial Board of the journal Computer Science Education
- 2004- Originator and founding member of the Scandinavian Pedagogy of Programming Network (SPoP)
- 1997- Originator and project manager for Centre for Professional Development and Further Education of College Computing Teachers in Denmark (Efteruddannelsescenteret)
- 1995-1999 Originator and Chairman of the Teacher's Association for CS Teachers in Denmark (Datamatikerlærerforeningen)

- 2017 Symposium co-chair for the SIGCSE Technical Symposium, Seattle, USA
- 2016 Chair of Informatics Europe's Best Practices in Education Award Committee
Program co-chair for the SIGCSE Technical Symposium, Memphis, Tennessee, USA
Co-chair of Dagstuhl Seminar: Assessing Learning in Introductory CS
- 2014 Conference and program co-chair for the Annual Workshop in Primary and Secondary Computing Education, Berlin, Germany
- 2013 Conference chair and program co-chair for the Annual Workshop in Primary and Secondary Computing Education, Aarhus, DK
- 2012 Program co-chair for the Annual ACM SIGCSE Conference on Innovation and Technology in Computer Science Education, Haifa, Israel

2011	Program co-chair for the Annual International Computing Education Research workshop (ICER), Providence, USA
2010	Conference chair and program co-chair for the Annual International Computing Education Research workshop (ICER), Aarhus, DK
2009	Program co-chair for the Annual International Computing Education Research workshop (ICER), Berkeley, USA
2008	Program co-chair for the Annual International Computing Education Research workshop (ICER), Sydney, Australia
2008-2011	Member of the leader triumvirate for the Annual International Computing Education Research workshop (ICER)
2002	Conference co-chair for the Annual ACM SIGCSE Conference on Innovation and Technology in Computer Science Education, Aarhus, DK
2012-2013	Member of the program committee for the Workshop in Primary and Secondary Computing Education (WiPSCE)
2011-2012, 2000-2002	Member of the program committee for the Annual ACM SIGCSE Conference on Innovation and Technology in Computer Science Education
2011-12	Member of the program committee for the Computer Science Education Research Conference (CSERC)
2002-2011	Member of the program committee for the International Conference on Computing Education Research, Koli Calling
2011	Member of the program committee for the SPLASH 2011 Educators' and Trainers' Symposium
2011	Co-organizer of the Pedagogical Progressions for Teaching Object-Oriented Design Workshop at ACM SIGCSE
2007-2009	Member of the program committee for the Annual Informatics Education Europe conference
2006	Member of the program committee for Joint Modular Language Conference (JMLC)
2013	Organizer of the Model-Driven Programming Education Workshop at ACE, Adelaide, SA, Australia
2005-2009	Co-organizer of the "Killer Examples" for Design Patterns and Objects First Workshop at ACM OOPSLA
2005	Co-organizer of the Model-Driven Programming Education Workshop at ACM SIGCSE, St. Louis, Missouri, USA
2001	Co-organizer of the Teaching Introductory Object-Oriented Programming with Java — Dangers, Traps, and a Road Map Workshop at ACM ITiCSE, Canterbury, USA
2001	Co-organizer of the Teaching Introductory Object-Oriented Programming with Java — Dangers, Traps, and a Road Map Workshop at ACM SIGCSE, Charlotte, USA
2013-	Reviewer for the Communications of the ACM (CACM)
2010-	Reviewer for the ACM Inroads
2009-	Reviewer for the ACM Transactions on Computing Education (TOCE)
2008-	Reviewer for ACM Journal of Educational Resources in Computing (JERIC)
1996-	Reviewer for the Annual ACM SIGCSE Conference on Innovation and technology in Computer Science Education
1994-	Reviewer for the Annual ACM SIGCSE Technical Symposium on Computer Science Education

Awards

2015	Special Teaching Award, Department of Computer Science, Aarhus University
2013	ACM Distinguished Member (Distinguished Educator) Nominated for the Informatics Europe 2013 Best Practices in Education Award for Informatics Education in Schools
2000	The Danish Computer Science Teacher Prize (with EUC)
1999	The Danish Computer Science Teacher Prize

Invited talks and lectures

2016	Invited lecture at Judith Gal-Ezer's retirement symposium (/w David Harel) Panel at The People's Political Festival, Bornholm: "Kodning på skolekemaet – skal børn lære at programmere?" Panel at The Danish Learning Festival: "En samtale om, hvilke kompetencer der er nødvendige til undervisning i digitalt design"
2015	ESTRO Forum 2015, Centre Convencions Internacional, Barcelona
2014	ACM Europe Council Meeting, Athens, Greece The FEBS-EMBO Life Science Conference 2014, Palais des Congrès, Paris, France Conference on Coding in School, VIA UC, Herning, Denmark University of Copenhagen, Denmark
2010	Danish Research Network Conference, Middelfart, Denmark Nordic Council Conference on Talent Development and Creativity in Science Education University of Copenhagen, Denmark
2008	Helsinki University of Technology, Finland Cornell University, Ithaca, NY, USA
2007	5th CeTUSS Workshop, Uppsala, Sweden ACM Education Council meeting, Seattle, USA
2006	University of Kent at Canterbury, UK State University of New York at Buffalo, NY, USA Cornell University, Ithaca, NY, USA Engineering College Copenhagen, Denmark
2005	Linköping University, Campus Norrköping, Sweden 2nd CeTUSS Workshop, Uppsala University, Sweden Department of Information Technology, Uppsala University, Sweden
2001	IDA-Aarhus, The Engineering Association in Denmark IDA-Sønderborg, The Engineering Association in Denmark
2000	IDA-Copenhagen, The Engineering Association in Denmark
1999	JAOO '99, Aarhus, Denmark

Teaching

Since 1986 I have taught a broad variety of undergraduate and graduate courses in computer science.

I have developed and taught a variety of computing courses in the areas of programming, algorithms and data structures, programming languages, concurrency, software engineering, computer architecture, and operating systems. Most courses have been taught at the undergraduate level, but a few are graduate courses. Some courses were small (15 students) and some very large (400+ students and 20+ teaching assistants).

The following is a more or less complete list of courses I have taught (some courses have been taught in slight variations with different titles):

- Introduction to Programming
- Algorithms
- Data Structures
- Multimedia Programming
- Programming in the Large
- Object-Oriented Programming
- Object-Oriented Software Development
- Design Patterns
- Principles of Programming Languages
- Functional Programming
- Logic Programming
- Concurrency
- Compiler Construction
- Computer Architecture
- Operating Systems
- Software Engineering
- Systems Development
- Discrete Math for Computing

Mixtures of examination forms have been used, including oral, written, practical, and project exam (individual and group).

I have supervised approximately 50 students in a variety of areas.

Industrial courses and part-time consulting

1988- Numerous industrial courses and consulting activities at 20 Danish IT companies: Landbrugets Rådgivningscenter; Provinsbanken; Modulex; Den Danske Bank; Tele Danmark/TDC (Aarhus and Copenhagen); LEC (Landbrugets EDB-Center); Datrix ICL; Tandem Computers; Crisplant; CCI-Europe; Bang & Olufsen; Danfoss; Systematic Software Engineering; OMT-Consult; Ericsson DiAx; Mjølner Informatik; Stibo Directory Systems; Personics; Kommunedata (Aarhus and Copenhagen), Cryptomathic.

Computing in School

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Since 2008 I have been heavily involved in development of a new computing subject for Danish high schools.

I was nominated for the Informatics Europe 2013 Best Practices in Education Award for Informatics Education in Schools. The abstract for the nomination reads as follows:

"Michael E. Caspersen is 'founding father' of computational thinking and didactics in Danish upper secondary schools.

Professor Caspersen plays an absolute crucial part in development of a modern and sustainable subject to teach pupils in upper secondary school computational thinking. Not only was professor Caspersen a key player in the preceding analysis, he is also main responsible for framing the new subject and cultivate a suitable didactics. Furthermore, he has made a tremendous effort in developing teaching material, teacher training, and network (a) among teachers in upper secondary school, and (b) between teachers in upper secondary school and university professors. This has improved the quality of the accomplished teaching in upper secondary schools, while it has also contributed to the penetration of the subject, since the support has given more schools and teachers the courage to offer and teach the new subject to their pupils."

List of Publications

Michael E. Caspersen, 14 July 2017

I have a total of 57 peer-reviewed publications.

Bibliometric classification (Danish authority lists of the bibliometric research indicator)¹

- 16 papers are published in level 2 publications (top 20%)
- 19 papers are published in level 1 publications
- 22 papers are published in unclassified publications

Journal/book/conference proceeding

- 17 papers are published in journals/books
- 40 papers are published in proceedings.

H-index

- My h-index is 20 (according to Google Scholar)

PhD dissertation

Caspersen, M.E.: "**Educating Novices in the Skills of Programming**", DAIMI PhD Dissertation PD-07-4, ISSN 1602-0448 (paper), 1602-0456 (online), 2007.

Peer-reviewed journal papers, conference papers, book chapters, and books

57. Caspersen, M.E.: "**Teaching Programming**", Chapter 9 in *Computer Science Education: Perspectives on Teaching and Learning*, Bloomsbury Publishing, 2018.

56. Caspersen, M.E.: "**Computational Thinking**", Chapter 4.15 in *Gymnasiepædagogik – en grundbog*, Hans Reitzels Forlag, 2017. (In Danish.)

55. McDermott, R., Daniels, M., Zarb, M., Pears, A.N., Nylén, A., Isomottonen, V. and Caspersen, M.E.: "**The Authenticity of "Authentic" Assessment—Some Faculty Perceptions**", Proceedings of the 47th Annual *Frontiers in Education Conference*, Indianapolis, USA, 2017.

54. Kristensen, B.B., Nowack, P. and Caspersen, M.E.: "**To Program is to Model: Software Development is Stepwise Improvement of Models**", Proceedings of the 7th Annual International Conference on Computer Science Education: Innovation and Technology, CSEITI 2016, Singapore, October 2016.

53. Aureliano, V., Tedesco, P. and Caspersen, M.E.: "**Learning Programming Through Stepwise Self-explanations**", Proceedings of CISTI 2016, Gran Canaria, Spain, June 2016.

52. Bjælde, O. E., Caspersen, M.E., Godsk, M., Hougaard, R.F. and Lindberg, A.B.: "**Learning Design for Science Teacher Training and Educational Development**", Proceedings of Ascilite 2015, Perth, Western Australia, Australia, November 2015, pp. 21-30.

51. Börstler, J., Caspersen, M.E. and Nordström, M.: "**Beauty and the Beast: on the readability of object-oriented example programs**", *Software Quality Journal*, Springer US, 2015, pp. 1-16.

50. Bender, E., Schaper, N., Caspersen, M.E., Margaritis, M. and Hubwieser, P.: "**Identifying and formulating teachers' beliefs and motivational orientations for computer science teacher education**", *Studies in Higher Education*, 2015, pp. 1-16.

49. Nowack, P. and Caspersen, M.E.: "**Model-Based Thinking and Practice — A Top-Down Approach to Computational Thinking**", *Proceedings of the 14th Koli Calling International Conference on Computing Education Research*, Koli, Finland, November 2014, pp. 147-151.

¹ Level 2 is the top 20% of the significant publication venues. Level 1 is the remaining 80% of the significant publication venues.

48. Vicens, Q. and Caspersen, M.E.: "**Getting more scientists to revamp teaching**", *Journal of College Science Teaching*, Vol. 43 (5), 2014, pp. 22-27.
47. Utting, I., Tew, A.E., McCracken, M., Thomas, L., Bouvier, D., Frye, R., Paterson, J., Caspersen, M.E., Kolikant, Y.B-D., Sorva, J., and Wilusz, T.: "**A Fresh Look at Novice Programmers' Performance and Their Teachers' Expectations**", *Proceedings of the 18th Annual Conference on Innovation and Technology in Computer Science Education Working Group Reports*, ITiCSE 2013, Canterbury, Kent, UK, July 2013, pp. 15-32.
46. Caspersen, M.E. and Nowack, P.: "**Computational Thinking and Practice — A Generic Approach to Computing in Danish High Schools**", *Proceedings of the 15th Australasian Computing Education Conference*, ACE 2013, Adelaide, South Australia, Australia, January 2013.
45. Bennedsen, J., and Caspersen, M.E.: "**Persistence of Elementary Programming Skills**", *Computer Science Education*, Vol. 22 (2), June 2012, pp. 81-107.
44. Nielsen, B.L., Caspersen, M.E., and Dahl, B.: "**What Must PhD Students in Science Know About Education?**" (In Danish: "Hvad skal ph.d.-studerende på naturvidenskab vide om undervisning?"), *Dansk Universitetspædagogisk Tidsskrift*, 2011.
43. Bennedsen, J. and Caspersen, M.E.: "**Recalling Programming Competence**", *Proceedings of the 9th International Conference on Computing Education Research*, Koli Calling 2009, Koli, Finland, October 2009, pp. 86-95.
42. Skrien, D., Caspersen, M.E., Börstler, J., Decker, A., and Alphonse, C.: "**Good Examples for Exposing Bad Practice: A 'Killer Examples' Workshop**", *Companion to the 24th ACM SIGPLAN Conference on Object-Oriented Programming, Systems, Languages, and Applications*, OOPSLA 2009, Orlando, Florida, USA, 25-29 October 2009, pp. 711-712.
41. Davies, G., Cassel, L., Pyster, A.B., Caspersen, M.E., and Toppi, H.: "**ACM Education Board and Masters Level Programs**", *Proceedings of the 40th SIGCSE Technical Symposium on Computer Science Education*, Chattanooga, Tennessee, USA, 2009, pp. 487-488.
40. Caspersen, M.E. and Kölling, M.: "**STREAM: A First Programming Process**", *ACM Transactions on Computing Education (TOCE)*, Vol. 9 (1), Article No. 4, 2009.
39. Caspersen, M.E., Börstler, J., Decker, A., and Alphonse, C.: "**Worked Examples for Sound Object-Oriented Pedagogy: The Seventh 'Killer Examples' Workshop**", *Companion to the 23rd ACM SIGPLAN Conference on Object-Oriented Programming, Systems, Languages, and Applications*, OOPSLA 2008, Nashville, Tennessee, USA, 19 - 23 October 2008, pp. 869-870.
38. Bennedsen, J. and Caspersen, M.E.: "**Abstraction Ability as an Indicator of Success for Performance in Learning Computer Science?**", *Proceedings of the 4th International Computing Education Research Conference*, Sydney, New South Wales, Australia, September 2008.
37. Börstler, J., Christensen, H.B., Bennedsen, J., Nordström, M., Westin, L.K, Moström, J.E., and Caspersen, M.E.: "**Evaluating OO Example Programs for CS1**", *Proceedings of the 13th Annual Conference on Innovation and Technology in Computer Science Education*, ITiCSE 2008, Madrid, Spain, 30 June - 2 July 2008, pp. 47-52.
36. Caspersen, M.E., Cassel, L.N., Davies, G., Pears, A., Seidman, S. and Topi, H.: "**What is Masters Level Education in Informatics**", *Proceedings of the 13th Annual Conference on Innovation and Technology in Computer Science Education*, ITiCSE 2008, Madrid, Spain, 30 June - 2 July 2008, pp. 341.
35. Bennedsen J. and Caspersen, M.E.: "**Optimists Have More Fun, But Do They Learn Better? On the Influence of Emotional and Social Factors on Learning CS and Math**", *Computer Science Education*, Vol. 18 (1), March 2008, pp. 1-16.

34. Caspersen, M.E. and Christensen, H.B.: "**Frameworks in Teaching**", In: Reflections on the Teaching of Programming, LNCS 4821, *Springer-Verlag*, 2008, pp. 211-228.
33. Caspersen, M.E. and Christensen, H.B.: "**CS1: Getting Started**", In: Reflections on the Teaching of Programming, LNCS 4821, *Springer-Verlag*, 2008, pp. 145-158.
32. Bennedsen, J.B. and Caspersen, M.E.: "**Model-Driven Programming**", In: Reflections on the Teaching of Programming, LNCS 4821, *Springer-Verlag*, 2008, pp. 129-144.
31. Bennedsen, J.B. and Caspersen, M.E.: "**Exposing the Programming Process**", In: Reflections on the Teaching of Programming, LNCS 4821, *Springer-Verlag*, 2008, pp. 7-18.
30. Caspersen, M.E.: "Introduction to Part II: **Introducing Object-Oriented Programming**", Reflections on the Teaching of Programming, LNCS 4821, *Springer-Verlag*, 2008, pp. 77-79.
29. Bennedsen, J.B., Caspersen, M.E., and Kölling, M. (Eds.): **Reflections on the Teaching of Programming**, LNCS 4821, *Springer-Verlag*, 2008.
28. Hummel, J., Alphonse, C., Bergin, J., Caspersen, M.E., Hansen, S., Heliotis, J.E. and Kölling, M.: "**Nifty Objects for CS0 and CS1**", *Proceedings of the 39th SIGCSE Technical Symposium on Computer Science Education*, SIGCSE 2008, Portland, Oregon, USA, 2008, pp. 437-438.
27. Cassel, L.N., Caspersen, M.E., Davies, G., McCauley, R., McGettrick, A., Pyster, A. and Sloan, R.: "**Curriculum Update from the ACM Education Board: CS2008 and a Report on Masters Degrees**", *Proceedings of the 39th SIGCSE Technical Symposium on Computer Science Education*, SIGCSE 2008, Portland, Oregon, USA, 2008, pp. 530-531.
26. Bennedsen, J.B. and Caspersen, M.E.: "**Assessing Process and Product — A Practical Lab Exam for an Introductory Programming Course**", *ITALICS, Innovation in Teaching and Learning in Information and Computer Sciences*, Vol. 6 (4), Special Issue on Innovative Methods of Teaching Programming, 2007, pp. 183-202.
25. Alphonse, C., Börstler, J., Caspersen, M.E., Decker, A. and Kölling, M.: "**Process in OO Pedagogy: A 'Killer' Workshop**", *Companion to the 22nd ACM SIGPLAN Conference on Object-Oriented Programming, Systems, Languages, and Applications*, OOPSLA 2007, Montreal, Quebec, Canada, 21-25 October 2007, pp. 737-738.
24. Caspersen, M.E. and Bennedsen, J.: "**Instructional Design of a Programming Course: A Learning Theoretic Approach**", *Proceedings of the 3rd International Computing Education Research Conference*, Atlanta, Georgia, USA, September 2007, pp. 111-122.
23. Bennedsen, J.B. and Caspersen, M.E.: "**Failure Rates in Introductory Programming**", In: SIGCSE Bulletin inroads, Volume 39, Number 2, June 2007, pp. 32-36.
22. Caspersen, M.E., Bennedsen, J., and Larsen, K.D.: "**Mental Models and Programming Aptitude**", *Proceedings of the 12th Annual Conference on Innovation and Technology in Computer Science Education*, ITiCSE 2007, Dundee, Scotland, 25 - 27 June 2007, pp. 206-210.
21. Alphonse, C., Caspersen, M.E., and Decker, A.: "**Killer 'Killer Examples' for Design Patterns**", *Proceedings of the 38th SIGCSE Technical Symposium on Computer Science Education*, Covington, Kentucky, USA, 2007, pp. 228-232.
20. Bennedsen, J.B. and Caspersen, M.E.: "**Assessing Process and Product — A Practical Lab Exam for an Introductory Programming Course**", *Proceedings of the 36th Frontiers in Education Conference*, San Diego, USA, 2006, pp. T1A-1 - T1A-6.
19. Caspersen, M.E. and Kölling, M.: "**A Novice's Process of Object-Oriented Programming**", *Companion to the 21st ACM SIGPLAN Conference on Object-Oriented Programming Systems, Languages, and Applications*, Portland, Oregon, USA, October 2006, pp. 892-900.

18. Alphonse, C., Caspersen, M.E., Decker, A. and Trask, B.: "**Killer Examples' for Design Patterns: The Fifth Annual OOPSLA 'Killer Examples' Workshop**", *Companion to the 21st ACM SIGPLAN Conference on Object-Oriented Programming, Systems, Languages, and Applications, OOPSLA 2006*, Portland, Oregon, USA, 22-26 October 2006, pp. 625-626.
17. Bennedsen, J.B. and Caspersen, M.E.: "**Abstraction Ability as an Indicator of Success for Learning Object-Oriented Programming?**", *SIGCSE Bulletin inroads*, Volume 38, Number 2, June 2006, pp. 39-43.
16. Bennedsen, J.B. and Caspersen, M.E.: "**Abstraction Power in Computer Science Education**", *Psychology of Programming Interest Group Conference — Work-in-Progress*, Coventry, January 2006.
15. Bennedsen, J.B. and Caspersen, M.E.: "**An Upcoming Study of Potential Success Factors for an Introductory Model-Driven Programming Course**", *Proceedings of the Koli Calling 2005 Conference on Computer Science Education*, Koli, Finland, 2005, pp. 166-169.
14. Bennedsen, J.B. and Caspersen, M.E.: "**An Investigation of Potential Success Factors for an Introductory Model-Driven Programming Course**", *Proceedings of the 1st International Computing Education Research Conference*, Seattle, Washington, USA, 2005, pp. 155-163.
13. Bergin, J., Wallingford, E., Caspersen, M.E., Goldweber, M. and Kölling, M.: "**Teaching Polymorphism Early**", *Proceedings of the 10th Annual Conference on Innovation and Technology in Computer Science Education, ITiCSE 2005*, Lisbon, Portugal, 27 - 29 June 2005.
12. Bennedsen, J.B. and Caspersen, M.E.: "**Revealing the Programming Process**". In: *Proceedings of the 36th SIGCSE Technical Symposium on Computer Science Education*, St. Louis, USA, 2005, pp. 186-190.
11. Fjuk, A., Berge, O., Bennedsen, J., and Caspersen, M.E.: "**Learning Object-Orientation through ICT-mediated Apprenticeship**", *ICALT 2004, the fourth IEEE International Conference on Advanced Learning Technologies*, Joensuu, Finland, 2004.
10. Bennedsen, J. and Caspersen, M.E.: "**Teaching Object-Oriented Programming — Towards Teaching a Systematic Programming Process**". *Proceedings of the Eighth Workshop on Pedagogies and Tools for the Teaching and Learning of Object-Oriented Concepts*, 18th European Conference on Object-Oriented Programming (ECOOP 2004), 14-18 June, 2004, Oslo, Norway.
9. Bennedsen, J. and Caspersen, M.E.: "**Programming in Context — A Model-First Approach to CS1**". *Proceedings of the thirty-fifth SIGCSE Technical Symposium on Computer Science Education*, Norfolk, Virginia, USA, 2004, pp. 477-481.
8. Bennedsen, J. and Caspersen, M.E.: "**Rationale for the Design of a Web-based Programming Course for Adults**", *Proceedings of the International Conference on Open and Online Learning 2003, ICOOL 2003*, Mauritius, December 2003.
7. Caspersen, M.E.: "**An Inverted Curriculum for CS1**", *Proceedings of Frontiers in Education 2003*, Boulder, Colorado, November 2003.
6. Caspersen, M.E. and Christensen, H.B.: "**The Need for Killer Examples for Object-Oriented Frameworks**". *Proceedings of the 18th Annual ACM SIGPLAN Conference on Object-Oriented Programming, Systems, Languages, and Applications, OOPSLA 2003*, Anaheim, California, USA, 26-30 October 2003.
5. Bennedsen, J.B. and Caspersen, M.E.: "**A Model-First Approach to Teaching Introductory Object-Orientation**", *COOL Workshop on Learning and Teaching Object-Orientation — Scandinavian Perspectives*, Oslo, October 2003.

4. Andersen, P.B., Bennedsen, J., Brandorff, S., Caspersen, M.E., and Mosegaard, J.: **“Teaching Programming to Liberal Arts Students — a Narrative Media Approach”**, *Proceedings of the eighth Annual Conference on Innovation and Technology in Computer Science Education, ITiCSE 2003*, Thessalonica, Greece, 30 June - 2 July 2003.
3. Caspersen, M.E.; Christensen, H.B.: **“Frameworks in CS1 — a Different Way of Introducing Event-driven Programming”**, *Proceedings of the seventh Annual Conference on Innovation and Technology in Computer Science Education, ITiCSE 2002*, Aarhus, Denmark, 24-26 June 2002.
2. Caspersen, M.E. and Christensen, H.B.: **“Here, There and Everywhere — On the Recurring Use of Turtle Graphics in CS1”**, *Proceedings of the fourth Australasian Computing Education Conference, ACE 2000*, Melbourne, Australia, pp. 34-40. ACM Press, 2000. ISBN 1-58113-271-9.
1. Caspersen, M.E.: **“A C++ Framework for Active Objects in Embedded Real-Time Systems — bridging the gap between modelling and implementation”**, *Technology of Object-Oriented Languages and Systems, TOOLS 32*, Melbourne, Australia, pp. 52-65. IEEE Computer Society, 1999. ISBN 0-7695-0462-0.

Proceedings of conferences served as program or conference chair/co-chair

10. Barnes, T., Caspersen, M.E., Edwards, S. and Garcia, D. (Eds.): *Proceedings of the 48th SIGCSE Technical Symposium on Computer Science Education, SIGCSE 2017*, Seattle, Washington, USA, March 9-11, 2017.
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