

Publications on teaching

(Bertrand Meyer
& colleagues at the ETH Chair of Software Engineering)

See complete publication list at <http://se.ethz.ch/~meyer/publications> (Meyer) and <http://se.ethz.ch/publications> (Chair). For a history of the chair and background on these publications see “Fourteen Years of Software Engineering at ETH Zurich”, <https://arxiv.org/abs/1712.05078>.

- [1] Bertrand Meyer: *Towards an Object-Oriented Curriculum*, in *Journal of Object-Oriented Programming*, Volume 6, Number 2, May 1993, pages 76-81, and proceedings of TOOLS 11, Technology of Object-Oriented Languages and Systems, Santa Barbara, August 1993, eds. R. Ege, M. Singh and B. Meyer, Prentice Hall 1993, pages 585-594, see a version at se.ethz.ch/~meyer/publications/joop/curriculum.pdf.
- [2] Bertrand Meyer: *Software Engineering in the Academy*, in *Computer* (IEEE), vol. 34, no. 5, May 2001, pages 28-35.
- [3] Bertrand Meyer: *The Outside-In Method of Teaching Introductory Programming*, in OO 2003: 9th IPSJ-SIGSE Symposium on Object-Orientation, Information Processing Society of Japan, ed. Mikio Aoyama, Tokyo, August 2003. (Revised version: [4].)
- [4] Bertrand Meyer: *The Outside-In Method of Teaching Introductory Programming*, in Perspective of System Informatics (PSI 5), Proceedings of fifth Andrei Ershov Memorial Conference, Akademgorodok, Novosibirsk, 9-12 July 2003, eds. Manfred Broy and Alexandr Zamulin, Lecture Notes in Computer Science 2890, Springer, 2003, pages 66-78.
- [5] Karl Pauls and Till G. Bay: *Reuse Frequency as Metric for Dependency Resolver Selection*, in Component Deployment: Third International Working Conference, CD 2005 (A. Dearle, S. Eisenbach, eds.), Springer-Verlag, volume 3798, 2005.
- [6] Michela Pedroni and Bertrand Meyer: *The Inverted Curriculum in Practice*, in Proceedings of SIGCSE 2006, Houston (Texas), 1-5 March 2006, ACM Press, 2006, pages 481-485.
- [7] Michela Pedroni, Till Bay, Manuel Oriol and Andreas Pedroni: *Open source projects in programming courses*, ACM SIGCSE Bulletin, vol. 39 no. 1, ACM Press, March 2007.
- [8] Marco Piccioni and Bertrand Meyer: *The Allure and Risks of a Deployable Software Engineering Project: Experiences with Both Local and Distributed Development*, in Proceedings of IEEE Conference on Software Engineering & Training (CSEE&T), Charleston (South Carolina), 14-17 April 2008, ed. H. Saiedian, pages 3-16.

- [9] Marie-Hélène Nienaltowski, Michela Pedroni and Bertrand Meyer: *Compiler Error Messages: What Can Help Novices?*, in Proceedings of SIGCSE 2008 (39th Technical Symposium on Computer Science Education), Portland (Oregon), Texas, 12-15 March 2008, ACM SIGCSE Bulletin, vol. 40, no. 1, ACM Press, 2008, pages 168-172.
- [10] Michela Pedroni, Manuel Oriol, Lukas Angerer and Bertrand Meyer: *Automatic Extraction of Notions from Course Material*, in Proceedings of SIGCSE 2008 (39th Technical Symposium on Computer Science Education), Portland (Oregon), 12-15 March 2008, ACM SIGCSE Bulletin, vol. 40, no. 1, ACM Press, 2008, pages 251-255.
- [11] Ilinca Ciupa, Manuel Oriol, Alexander Pretschner and Bertrand Meyer: *Finding Faults: Manual Testing vs. Random+ Testing vs. User Reports*, in ISSRE '08, Proceedings of the 19th IEEE International Symposium on Software Reliability Engineering, Redmond, November 2008.
- [12] Ruihua Jin and Marco Piccioni: *Eiffel for .NET Binding for db4o*, in ICOODB (eds. J. Paterson and S. Edlich), 2008.
- [13] Michela Pedroni, Manuel Oriol, Bertrand Meyer, Enrico Albonico and Lukas Angerer: *Course management with TrucStudio*, in ACM ITiCSE (ACM Press), 2008.
- [14] Till G. Bay: *Hosting distributed software projects: concepts, framework, and the Origo experience*, PhDthesis, ETH Zürich, 2008, <http://se.ethz.ch/people/bay/publications/2008/bay-diss.pdf>.
- [15] Bertrand Meyer: *Touch of Class: Learning to Program Well Using Object Technology and Design by Contract*, Springer, 2009.
- [16] Michela Pedroni: *Concepts and Tools for Teaching Programming*, PhD thesis, ETH Zurich, 2009.
- [17] Michela Pedroni and Bertrand Meyer: *Object-Oriented Modeling of Object-Oriented Concepts*, in ISSEP 2010, Fourth International Conference on Informatics in Secondary Schools, Zurich, January 2010, eds. J. Hromkovic, R. Královic, J. Vahrenhold, Lecture Notes in Computer Science 5941, Springer, 2010.
- [18] Bertrand Meyer: *From Programming to Software Engineering* (slides only), material for education keynote at International Conference on Software Engineering (ICSE 2010), Cape Town, South Africa, May 2010.
- [19] Ganesh Ramanathan: *SCOOP for Robotics – Implementing bio-inspired hexapod locomotion*, ETH project report, 2010, available at se.ethz.ch/old/projects/ganesh_ramanathan/report.pdf.
- [20] Sebastian Nanz, Faraz Torshizi, Michela Pedroni and Bertrand Meyer: *Design of an Empirical Study for Comparing the Usability of Concurrent Programming Languages*, in ESEM 2011 (ACM/IEEE International Symposium on Empirical Software Engineering and Measurement), 22-23 September 2011 (best paper award).
- [21] Bertrand Meyer, Marco Piccioni, Nadia Polikarpova, Julian Tschannen, Scott West, Christian Estler and Mischael Schill: *Introduction to Programming: The ETH Cloud Course*, online course (MOOC), first released September 2013,

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- [22] Bertrand Meyer, Marco Piccioni and Nadia Polikarpova: *Computing: Art, Magic, Science*, part 1, known as CAMS 1, edX MOOC (online course), released September 2014, available at www.edx.org/course/computing-art-magic-science-ethx-cams-2x#.UMtFmPQqDs.
- [23] Marco Piccioni, H-Christian Estler and Bertrand Meyer: *SPOC-supported introduction to Programming*, in Proceedings of ITiCSE 2014, 9th Annual Conference on Innovation and Technology in Computer Science Education, June 23-25, 2014, Uppsala, Sweden.
- [24] Jiwon Shin, Andrey Rusakov and Bertrand Meyer: *Concurrent Software Engineering and Robotics Education*, in 37th International Conference on Software Engineering (ICSE 2015), Florence, May 2015, IEEE Press, pages 370-379.
- [25] Paolo Antonucci, Christian Estler, Durica Nikolic, Marco Piccioni and Bertrand Meyer: *An Incremental Hint System For Automated Programming Assignments*, in ITiCSE '15, Proceedings of 2015 ACM Conference on Innovation and Technology in Computer Science Education, 6-8 July 2015, Vilnius, ACM Press, pages 320-325.