Oscar Nierstrasz — Curriculum Vitæ (short version)

1   Personal Data

Name	Oscar Marius Nierstrasz
Residence	Fluhmattweg 41, CH-3122 Kehrsatz, Switzerland
Telephone	+41 31 961 7065
Mobile	+41 78 628 0817
E-mail	Oscar.Nierstrasz@acm.org
Home page	https://www.oscar.nierstrasz.org
ORCID	0000-0002-9975-9791
Google Scholar ID	Yi00hUYAAAAJ
Birthdate	October 15, 1957 (Laren, The Netherlands)
Citizenship	Canada, Switzerland and Italy

2   Employment History

2022-present	*Soul polisher*, feenk GmbH, Wabern
1996-2021	*Full Professor of Computer Science*
	Institute of Computer Science, University of Bern
1994-1996	*Associate Professor of Computer Science*
	Institute of Computer Science, University of Bern
1987-1994	*Assistant Professor*, CUI, University of Geneva
1986-87	*Maître-Assistant*, CUI, University of Geneva

University education

Ph.D.	1984, Department of Computer Science, University of Toronto.
	Thesis: *Message Flow Analysis.* Supervisor: Prof. D. Tsichritzis
M.Sc.	1981, Department of Computer Science, University of Toronto.
	Thesis: *Automatic Coordination and Processing of Electronic Forms in TLA (an Intelligent Office Information System).* Supervisor: Prof. D. Tsichritzis
B.Math	1979, Departments of Pure Mathematics and Combinatorics and Optimization, University of Waterloo.

3   Selected Professional Activities (2018-2023)

Editorial Board Member   Science of Computer Programming, Advisory Board (SCP — 2014-2020); PeerJ CS[1] (2015-2019).

Committee Member   SIRA[2] Board (2012-2018); SI[3] Board (2012-2018); Swiss National Science Foundation Research Council, Division 2 (2012-2020).

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[1] https://peerj.com/computer-science/
[2] Swiss Informatics Research Association
[3] Swiss Informatics Society

4 Selected Publications (2018-2023)

H-index: 54.

All publications are available online: `https://www.oscar.nierstrasz.org/publications/`.

4.1 Refereed Papers in International Journals

1. Arianna Blasi, Nataliia Stulova, Alessandra Gorla and Oscar Nierstrasz, "RepliComment: Identifying Clones in Code Comments," *Journal of Systems & Software*, 2021, pp. 111069.

2. Pooja Rani, Sebastiano Panichella, Manuel Leuenberger, Mohammad Ghafari and Oscar Nierstrasz, "What do class comments tell us? An investigation of comment evolution and practices in Pharo Smalltalk," *Empirical Software Engineering*, vol. 26, no. 6, 2021, pp. 1–49.

3. Pooja Rani, Sebastiano Panichella, Manuel Leuenberger, Andrea Di Sorbo and Oscar Nierstrasz, "How to Identify Class Comment Types? A Multi-language Approach for Class Comment Classification," *Journal of Systems and Software*, vol. 181, 2021, pp. 111047.

4. Pascal Gadient, Mohammad Ghafari, Patrick Frischknecht and Oscar Nierstrasz, "Security Code Smells in Android ICC," *Empirical Software Engineering*, vol. 24, 2019, pp. 3046–3076.

5. Jan Kurš, Jan Vraný, Mohammad Ghafari, Mircea Lungu and Oscar Nierstrasz, "Efficient parsing with parser combinators," *Science of Computer Programming*, vol. 161, September 2018, pp. 57.88.

6. Max Leske, Andrei Chiş and Oscar Nierstrasz, "Improving live debugging of concurrent threads through thread histories," *Science of Computer Programming*, vol. 161, 2018, pp. 122-148.

7. Leonel Merino, Mohammad Ghafari, Craig Anslow and Oscar Nierstrasz, "A Systematic Literature Review of Software Visualization Evaluation," *Journal of Systems and Software*, vol. 144, October 2018, pp. 165-180.

8. Nevena Milojković, Clément Béra, Mohammad Ghafari and Oscar Nierstrasz, "Mining Inline Cache Data to Order Inferred Types in Dynamic Languages," *Science of Computer Programming, Elsevier, Special Issue on Adv. Dynamic Languages*, vol. 161, 2018, pp. 105-121.

4.2 Refereed Papers in International Conferences

1. Pascal Gadient, Marc-Andrea Tarnutzer, Oscar Nierstrasz and Mohammad Ghafari, "Security Smells Pervade Mobile App Servers," *ACM / IEEE International Symposium on Empirical Software Engineering and Measurement (ESEM)*, October 2021.

2. Pascal Gadient, Pascal Gerig, Oscar Nierstrasz and Mohammad Ghafari, "Phish What You Wish," *21st IEEE International Conference on Software Quality, Reliability, and Security (QRS)*, December 2021.

3. Pascal Gadient, Oscar Nierstrasz and Mohammad Ghafari, "Security Header Fields in HTTP Clients," *21st IEEE International Conference on Software Quality, Reliability, and Security (QRS)*, December 2021.

4. Mohammadreza Hazhirpasand, Arash Ale Ebrahim and Oscar Nierstrasz, "Stopping DNS Rebinding Attacks in the Browser," *Proceedings of the 7th International Conference on Information Systems Security and Privacy - ICISSP*, 2021.

5. Mohammadreza Hazhirpasand, Oscar Nierstrasz and Mohammad Ghafari, "Dazed and Confused: What's Wrong with Crypto Libraries?," *2021 18th International Conference on Privacy, Security and Trust (PST)*, 2021, pp. 1-6.

6. Mohammadreza Hazhirpasand, Oscar Nierstrasz, Mohammadhossein Shabani and Mohammad Ghafari, "Hurdles for Developers in Cryptography," *2021 IEEE International Conference on Software Maintenance and Evolution (ICSME)*, 2021, pp. 659-663.

7. Mohammadreza Hazhirpasand, Mohammad Ghafari and Oscar Nierstrasz, "Worrisome Patterns in Developers: A Survey in Cryptography," *2021 36th IEEE/ACM International Conference on Automated Software Engineering Workshops (ASEW)*, 2021, pp. 185-190.

8. Mohammadreza Hazhirpasand, Mohammad Ghafari and Oscar Nierstrasz, "Crypto Experts Advise What They Adopt," *2021 36th IEEE/ACM International Conference on Automated Software Engineering Workshops (ASEW)*, 2021, pp. 179-184.

9. Pascal Gadient, Mohammad Ghafari, Marc-Andrea Tarnutzer and Oscar Nierstrasz, "Web APIs in Android through the Lens of Security," *27th edition of the IEEE International Conference on Software Analysis, Evolution and Reengineering (SANER)*, March 2020.

10. Mohammadreza Hazhirpasand, Mohammad Ghafari and Oscar Nierstrasz, "CryptoExplorer: An Interactive Web Platform Supporting Secure Use of Cryptography APIs," *27th edition of the IEEE International Conference on Software Analysis, Evolution and Reengineering (SANER)*, March 2020, pp. 632–636.

11. Mohammadreza Hazhirpasand, Mohammad Ghafari and Oscar Nierstrasz, "Java Cryptography Uses in the Wild," *Proceedings of the 14th ACM / IEEE International Symposium on Empirical Software Engineering and Measurement (ESEM)*, 2020.

12. M. Ghafari, M. Eggiman and O. Nierstrasz, "Testability First!," *2019 ACM/IEEE International Symposium on Empirical Software Engineering and Measurement (ESEM)*, September 2019, pp. 1-6.

13. M. Hazhirpasand, M. Ghafari, S. Krüger, E. Bodden and O. Nierstrasz, "The Impact of Developer Experience in Using Java Cryptography," *2019 ACM/IEEE International Symposium on Empirical Software Engineering and Measurement (ESEM)*, September 2019, pp. 1-6.

14. Leonel Merino, Mario Hess, Alexandre Bergel, Oscar Nierstrasz and Daniel Weiskopf, "PerfVis: Pervasive Visualization in Immersive Augmented Reality for Performance Awareness," *Companion of the 2019 ACM/SPEC International Conference on Performance Engineering*, ICPE '19, ACM, New York, NY, USA, 2019, pp. 13–16.

15. Leonel Merino, Ekaterina Kozlova, Oscar Nierstrasz and Daniel Weiskopf, "VISON: An Ontology-Based Approach for Software Visualization Tool Discoverability," *VISSOFT'19: Proceedings of the 7th IEEE Working Conference on Software Visualization*, IEEE, 2019.

16. Nitish Patkar, Pascal Gadient, Mohammad Ghafari and Oscar Nierstrasz, "Towards a Catalogue of Mobile Elicitation Techniques," *25th International Conference on Requirements Engineering: Foundation for Software Quality (REFSQ)*, 2019.

17. Claudio Corrodi, Timo Spring, Mohammad Ghafari and Oscar Nierstrasz, "Idea: Benchmarking Android Data Leak Detection Tools," *Engineering Secure Software and Systems*, Mathias Payer, Awais Rashid and Jose M. Such (Eds.), Springer International Publishing, Cham, 2018, pp. 116–123.

18. Leonel Merino, Alexandre Bergel and Oscar Nierstrasz, "Overcoming Issues of 3D Software Visualization through Immersive Augmented Reality," *VISSOFT'18: Proceedings of the 6th IEEE Working Conference on Software Visualization*, IEEE, 2018, pp. 54–64.

19. Yuriy Tymchuk, Mohammad Ghafari and Oscar Nierstrasz, "JIT Feedback — what Experienced Developers like about Static Analysis," *26th IEEE International Conference on Program Comprehension (ICPC 2018)*, 2018, pp. 64–73.