

University Academic Curriculum Vitae

Personal information Ilenia Fronza
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Education since leaving school

- 2004, Bachelor degree in Mathematics (Class 32 of Mathematical Sciences degrees), University of Trento, Italy
- 2006, Master of Science in Mathematics (Class 45/S of Mathematical Sciences degrees), University of Trento, Italy
- 2007, Second Level Master in Computational and Systems Biology, The Microsoft Research Centre for Computational and Systems Biology – University of Trento, Italy
- 2012, PhD in Computer Science, Free University of Bozen-Bolzano, Italy

Present appointment Researcher with fixed term contract

- April 2017 – now
- Free University of Bozen-Bolzano, Faculty of Computer Science
- Research interests include: dynamic systems and their architecture; software engineering training and education
- Coordinator of the Software Engineering Training and Education (SETE) research area of the Software and Systems Engineering (SwSE) research group.
- Coordinator of Faculty activities in local schools, appointed in March 2015.

Professional experience

From / to	Job title	Name of academic Institution	Academic level	Responsibilities
Nov. 2006 / Dec. 2006	Research assistant	The Microsoft Research Centre for Computational and Systems Biology, Trento, Italy	/	Solving a system of Master Equations for parallel chemical interactions
Nov. 2007 / Dec. 2007	Research assistant	Free University of Bozen-Bolzano, Faculty of Computer Science	/	Analisi di flussi di eventi per la modellazione di processi di business
April 2011 to 2017	Researcher with fixed term contract	Free University of Bozen-Bolzano, Faculty of Computer Science	Junior researcher	Architetture di servizi
April 2017 to now	Researcher with fixed term contract	Free University of Bozen-Bolzano, Faculty of Computer Science	Junior researcher	Dynamic systems and their architecture; software engineering training and education

Experience academic teaching in *Title of courses given last 5 years, name of University/Institute, subject area, academic level (under-/post-graduate/PhD), results of evaluations (full details in appendix)*

Lecturer at Free University of Bozen-Bolzano, Faculty of Computer Science:

- Software Engineering (A.Y. 14/15, 15/16)
 - A.Y. 14/15, 15/16 (results of evaluations are appended)
 - SSD: ING-INF/05

- Bachelor in Computer Science and Engineering (BSc)
- Project and Team Work Management
 - A.Y. 14/15
 - SSD: M-FIL/02
 - Course of Bachelor in Computer Science and Engineering (BSc)
- Project Management and Professional Ethics
 - A.Y. 15/16, 17/18
 - SSD: M-FIL/02
 - Bachelor in Computer Science and Engineering (BSc)
- Empirical Software Engineering Research
 - A.Y. 17/18, 18/19
 - SSD: INF/01
 - Master EMSE (LM-18)
- Seminars in Software and IT Engineering
 - A.Y. 18/19
 - SSD: INF/01
 - Master Computer Science (LM-18)

Lecturer at Free University of Bozen-Bolzano, Faculty of Communication Sciences and Culture:

- Elementi di Informatica per la Comunicazione
 - A.Y. 14/15
 - SSD: INF/01
 - Bachelor in Communication Sciences

Teaching Assistant at Free University of Bozen-Bolzano, Faculty of Computer Science:

- Analysis
 - A.Y. 16/17
 - SSD: MAT/05
 - Bachelor in Computer Science and Engineering (BSc)

Other didactic activities:

- Supervision of several Free Choice and Compulsory Projects
- Supervision of several Bachelor and Master Thesis (Computer Science, and PAS 42A sez. Italiana - in collaboration with Prof. G. Dodero).
- Supervision of several high school students during their stages and "Alternanza Scuola-Lavoro" at the Faculty of Computer Science (46 students in 2018), Free University of Bozen-Bolzano.
- Computational Thinking 2 CP course for High Schools (Bolzano, May 2015, 20 hours, Free University of Bozen-Bolzano and Liceo Pascoli).
- Computational Thinking courses during the ESF project "Toward Computational Thinking in the Schools" (TACITuS – 2014/2015), about 150 hours.
- Computational Thinking during the ESF project Summer of IT Entrepreneurship (SITE – 2014/2016), 24 hours.
- Course "Teaching Computational Thinking using Scratch" for 20 teachers of primary schools, 15 hours, Provincia Autonoma di Bolzano - Dipartimento Istruzione e Formazione italiana - Area Pedagogica (2016).

Significant personal achievements in teaching:

- Since 2011 I have been teaching Computational Thinking and Software Engineering in primary and secondary schools (about 20/30 hours per

year). I tailor each course to fit the school's needs, by designing multidisciplinary activities for each type and grade, in agreement with school teachers. In total, these activities involved more than 400 students of the Province of Bolzano.

- MobileDev (since 2014), summer school for high school students on computational thinking and mobile development. In 2017, I have completely redesigned the teaching format and tools of MobileDev so that it can be recognised as an activity of "Alternanza Scuola Lavoro": <https://mobiledev.inf.unibz.it>. In 2018 MobileDev has been recognized by MIUR as one of the best projects of "Alternanza Scuola-Lavoro" in Italy.

Other academic responsibilities

Internal appointments to faculty and university boards:

- Coordinator of Faculty activities in local schools, appointed in March 2015. This role requires to: handle constant contact with local schools and local School Administration; organize stages or courses for school students at the Faculty; meet teachers frequently to present the Faculty and discuss the possibilities of potential cooperations; collect statistics about Faculty activities in this context.
- "Cultore della materia" for the SSD M-FIL/02, appointed in 2016.
- Member of the Faculty commission for the creation of the new Master in Software engineering (2018)
- Responsible of Double degree Masters in Software Engineering (DDMSE) with University of Latvia (2013).

External appointments at national and international level:

- Coordinator at national level of the group "alternanza scuola-lavoro" (CINI group "Informatica a scuola")

Responsibilities for organizing conferences/seminars/exhibitions:

- Organizer of the Systems of Assessments for Computational Thinking Learning workshop (TACKLE 2018) at EC-TEL 2018 (Leeds, United Kingdom, September 3rd, 2018)
- Running an eight-hours lab for "Rendezvous mit dem Traumberuf" (25-26.10.2018, Bolzano)
- Running three labs for children at MiniNOI (20.10.2018, 27.10.2018, 11.10.2018 TechPark, Bolzano)
- Organizing and teaching every year "MobileDev": project of "Alternanza Scuola-Lavoro" for high school students, on computational thinking and mobile development, (Bolzano, 1 week in September - 30 hours, Free University of Bozen-Bolzano).
- Organizing and teaching Computational Thinking and Software Engineering courses for primary and secondary schools, tailored to fit each school's needs.
- Steering committee of ASEW'11 and ASEW'12 - Alpine Software Engineering Workshop (Corvara (BZ), December 2011 and 2012, Free University of Bozen-Bolzano).
- Steering committee of the Software Engineering Summer School 2011 (Bolzano, July 2011, Free University of Bozen-Bolzano), 2017 (Bolzano, September 2017, Free University of Bozen-Bolzano), and 2018 (Bolzano, July 2017, Free University of Bozen-Bolzano)
- Organizing the 4th International Symposium on Empirical Software

- Engineering and Measurement (ESEM'10, 16-17.09.2010, Bolzano).
- First meetings for the organization of the event "Festival della narrazione scientifica", organized by the Autonomous Province of Bolzano.
- Speaker at "MINT day" for high schools (October 2015), organized by the Autonomous Province of Bolzano.

Memberships

Membership of academic or professional bodies (including membership of Editorial Boards of scientific publications; membership of scientific committees for international conferences)

- During my academic career I have been a reviewer for several international journals and conferences. Some of them include: Journal of Systems and Software (Elsevier), Information Retrieval Journal (Springer), Transactions on Emerging Topics in Computing (IEEE), Journal of Logical and Algebraic Methods in Programming (Elsevier)Computer Science Education (Taylor and Francis), SIGCSE Technical Symposium, SIGITE conference.
- Guest Editor of Cutter IT Journal, special issue on Making managerial dashboards meaningful, January 2013.
- Member of ACM-SIGSOFT, ACM-SIGITE, CINI group "Informatica a scuola"
- Program Committee of the International Workshop on Emerging Trends in Software Metrics 2011, WETSOM'11, co-located with ICSE 2011
- Program Committee of the 6th International Symposium "From Data to Models and Back (DataMod)", 4-5 September 2017, Trento (Italy)
- Organizer of the Systems of Assessments for Computational Thinking Learning workshop (TACKLE 2018) at EC-TEL 2018 (Leeds, United Kingdom, September 3rd, 2018)

Research and scholarships

- *Summary of current research and scholarship*
- *Summary of research and scholarship during the previous five years*
- *Research grants and contracts*

Date granted	Award Holder(s)	Funding Body	Title	Amount received (€)
November 2018 – November 2021	Coordinator: FBK, Trento, Italy Principal investigator of unibz unit: Claus Pahl Co-I of the unibz unit: Ilenia Fronza	H2020-ICT-2018-2020	5G for Connected and Automated Car Mobility in the European Union (5G-CARMEN)	Unibz: 127500.00
September 2018 – September 2019	Ilenia Fronza	Free University of Bozen-Bolzano, RTD call 2018	Exploring agile ways of teaching Agile (AGILE)	10000.00
October 2017 – March 2020	Ilenia Fronza	Free University of Bozen-Bolzano, ID call 2017	COMbining COmputational thiNking didAcTics and Software engineering in K-12 (COCONATS)	162000.00
September 2017 – February 2019	Ilenia Fronza (co-I)	Free University of Bozen-Bolzano, RTD call 2017	towardS effectiVe visualisation of leArning foR aGile softwAre developmenT tEams (STARGATE)	9990.00
June 2016 – December 2016	Ilenia Fronza	Free University of Bozen-Bolzano, RTD call 2016	Computational Thinking Assisted Language Learning (ctALL)	7800.00
January 2016 – December 2016	Ilenia Fronza	Free University of Bozen-Bolzano	Green software for drone energy consumption optimization (green4drones)	8595.80
November 2013 – March 2015	Giancarlo Succi, Ilenia Fronza (from November 2014)	European Social Fund	TowArD ComputAtional Thinking in the Schools (TACITuS)	90890.30
January 2014 – May 2015	Alberto Sillitti, Ilenia Fronza (from November 2014)	European Social Fund	Summer of IT Entrepreneurship (SITE)	152950.00
October 2012 – Ongoing	Barbara Russo	EACEA - the Education, Audiovisual and Culture Executive Agency (European Commission)	Joint MSc in Software Engineering (JMSE)	20000.00
August 2012 – August 2014	Alberto Sillitti	Autonomous Province of Bolzano	AQUAS	16000
March 2014 – March 2016	Giancarlo Succi	MIUR - PRIN	Integrated Design and Evolution of Adaptive Systems (IDEAS)	72000
	Barbara Russo	MOY Mediterranean Office of Youth	Double degree Masters in Software Engineering (DDMSE) – didactic project	

Significant achievements in research:

- Best paper award at the 6th Annual Conference on Research in Information Technology (RIIT 2017). Paper: Fronza, I., Ioini, N.E., Corral, L., Moroder, M., Moroder, M. 2017. Monitoring multicopters energy consumption. In Proceedings of the 6th Annual Conference on Research in Information Technology (RIIT 2017), pp. 29-34. DOI: [10.1145/3125649.3125657](https://doi.org/10.1145/3125649.3125657).
- Best paper award at the 13th International Conference on Mobile Web and Intelligent Information Systems (MobiWIS'16). Paper: Corral, L., Fronza, I., El Ioini, N., Janes, A., and Plant, P. 2016. An Android Kernel Extension to Save Energy Resources without Impacting User Experience. In Proceedings of the 13th International Conference on Mobile Web and Intelligent Information Systems (MobiWIS'16, 22-24 August 2016, Vienna, Austria), M. Younas et al. (Eds.): MobiWIS 2016, LNCS 9847, pp. 3-17, 2016, Springer International Publishing. DOI: [10.1007/978-3-319-44215-0_1](https://doi.org/10.1007/978-3-319-44215-0_1)
- Short-listed for "Best Paper award" at the International Conference on Web-based Learning (ICWL'16). Paper: Fronza, I. and Gallo, D. 2016. Towards mobile assisted language learning based on Computational Thinking. International Conference on Web-based Learning (ICWL'16, 26-29 October, 2016, Rome, Italy), ICWL 2016, LNCS 10013, pp. 141-150, 2016, Springer International Publishing, ISBN 978-3-319-47439-7. DOI: [10.1007/978-3-319-47440-3_16](https://doi.org/10.1007/978-3-319-47440-3_16)

Publications

Publications over the last 10 years in chronological order within each category following the International Standard for bibliographic references with DOI whenever possible.

Proceedings

Joint 1st Co-Creation in the Design, Development and Implementation of Technology-Enhanced Learning Workshop and Systems of Assessments for Computational Thinking Learning Workshop, CC-TEL 2018 and TACKLE 2018; Leeds; United Kingdom; 3 September 2018. CEUR Workshop Proceedings, Volume 2190, 2018. ISSN: 16130073

Book chapters

Fronza, I., El Ioini, N., Pahl, C. and Corral, L. (2019) Bringing the Benefits of Agile Techniques Inside the Classroom: A Practical Guide. In *Agile and Lean Concepts for Teaching and Learning*, 133-152, 2019, Springer. Citation index. Scopus: NA, Google scholar: 0

Journal papers in refereed academic journals

Fronza, I., El Ioini, N., and Corral, L. Teaching computational thinking using agile software engineering methods: A framework for middle schools (2017) *ACM Transactions on Computing Education*, 17 (4) Citation index. Scopus: 2, Google scholar: 5

di Bella, E., Fronza, I., Phaphoom, N., Sillitti, A., Succi, G., and Vlasenko, J. (2013) Pair Programming and Software Defects – A Large, Industrial Case Study, *Software Engineering*, IEEE Transactions on, vol.39, no.7, pp.930-953, July 2013. DOI: [10.1109/TSE.2012.68](https://doi.org/10.1109/TSE.2012.68) Citation index. Scopus: 42, Google scholar: 63 Impact of Journal (2014): 1.614

Fronza, I., Sillitti, A., Succi, G., Terho, M., and Vlasenko, J. (2013) Failure prediction based on log files using Random Indexing and Support Vector Machines. *Journal of Systems and Software*, Volume 86, Issue 1, January 2013, Pages 2-11. DOI: [10.1016/j.jss.2012.06.025](https://doi.org/10.1016/j.jss.2012.06.025) Citation index. Scopus: 44, Google Scholar: 65 Impact of Journal (2014): 1.352

Fronza, I. and Gallo, D. 2016. "Der, die, o das?": il Computational Thinking nella didattica del tedesco L2/L3. (2016) *Mondo Digitale**, vol. 15, no. 64, pp. 1-10. ISSN: 1720-898X. URL:http://mondodigitale.aicanet.net/2016-3/DidamaticaSessioni/Didattica/paper_54.pdf Citation index. Scopus: 0, Google scholar: 0

* Every year, Mondo Digitale dedicates one issue to the Proceedings of DIDAMATICA, which are subject to a peer review process.

Fronza, I. and Zanon, P. 2015. Introduction of computational thinking in a hotel management school. (2015) Mondo Digitale*, vol. 14, pages 28-34. ISSN: 1720-898X

URL:http://mondodigitale.aicanet.net/2015-3/dida6/didamatica2015_submission_66.pdf

Citation index. Scopus: 5, Google Scholar: 5

* Every year, Mondo Digitale dedicates one issue to the Proceedings of DIDAMATICA, which are subject to a peer review process.

Fronza, I., El Ioini, N., Janes, A., Sillitti, A., Succi, G., and Corral Velazquez, L.R. (2014) "If I had to vote on this laboratory, I would give nine": Introduction on Computational Thinking in the lower secondary school: Results of the experience, Mondo Digitale*, vol. 13, no. 51, pp. 757-765. ISSN: 1720-898X, URL: http://mondodigitale.aicanet.net/2014-3/03_Computational_Thinking/03_14.pdf

Citation index. Scopus: 9, Google scholar: 10

* Every year, Mondo Digitale dedicates one issue to the Proceedings of DIDAMATICA, which are subject to a peer review process.

Journal papers in professional journals

Corral, L., Fronza, I., and El Ioini, N. (2015) The Future of Energy-Aware Software: The Case of Drones. Cutter IT Journal, issue "What's Over the Technology Horizon", vol. 28, no. 8, pp. 19-23. ISSN: 1522-7383

Citation index. Scopus: 3, Google scholar: 1

Fronza, I. 2013. Making Managerial Dashboards Meaningful: Opening statement. (2013) Cutter IT Journal, 26 (1), 2013, pp. 3-5. ISSN: 1522-7383. **Included in the five [Top Cutter IT Journal Articles for 2013](#).**

Citation index. Scopus: 0, Google scholar: 0

Conference papers

Corral, L. and Fronza, I. (2018). Design Thinking and Agile Practices for Software Engineering: An Opportunity for Innovation. In *Proceedings of the 19th Annual SIG Conference on Information Technology Education* (pp. 26-31). DOI: [10.1145/3241815.3241864](https://doi.org/10.1145/3241815.3241864)

Citation index. Scopus: NA, Google scholar: 0

Fronza, I. and Pahl, C. Fostering Software Engineering Principles in K-12 Through Non-Programming Activities. (2018) In *Proceedings of the 19th Annual SIG Conference on Information Technology Education* (pp. 188).

DOI: [10.1145/3241815.3241841](https://doi.org/10.1145/3241815.3241841)

<p>Citation index. Scopus: NA, Google scholar: 0</p>
<p>Colombi, A., Fronza, I., Pahl, C., and Basso, D. (2018). COCONATS: Combining Computational Thinking Didactics and Software Engineering in K-12. In <i>Proceedings of the 19th Annual SIG Conference on Information Technology Education</i> (pp. 162) DOI: 10.1145/3241815.3241886 Citation index. Scopus: NA, Google scholar: 0</p>
<p>Fronza, I. and Pahl, C. (2018) End-User Software Engineering in K-12 by Leveraging Existing Curricular Activities (2018) Proceedings of the 13th International Conference on Software Technologies (ICSOFT), DOI: 10.5220/0006846702830289 Citation index. Scopus: NA, Google scholar: NA</p>
<p>Fronza, I. and Pahl, C. (2018) Envisioning a Computational Thinking Assessment Tool. Systems of Assessments for Computational Thinking Learning Workshop, CC-TEL 2018 and TACKLE 2018; Leeds; United Kingdom; 3 September 2018. ISSN: 16130073. http://ceur-ws.org/Vol-2190/TACKLE_2018_paper_2.pdf Citation index. Scopus: 0, Google scholar: NA</p>
<p>Fronza, I. and Pahl, C. (2018) Leveraging Curricular Activities to Foster Software Engineering Principles in Non-Vocational Schools, KOLI Calling 2018; November 2018. To appear. Citation index. Scopus: 0, Google scholar: NA</p>
<p>Basso, D., Fronza, I., Colombi, A., and Pahl, C. (2018) Improving Assessment of Computational Thinking Through a Comprehensive Framework, KOLI Calling 2018; November 2018. To appear. Citation index. Scopus: 0, Google scholar: NA</p>
<p>Corral, L., Fronza, I., and El Ioini, N. (2017) The incorporation of drones as object of study in energy-Aware software engineering. Proceedings of the 19th International Conference on Enterprise Information Systems (ICEIS), 2, pp. 721-726. DOI: 10.5220/0006338607210726. Citation index. Scopus: 1, Google scholar: 1</p>
<p>Fronza, I., El Ioini, N., and Corral, L. Leveraging robot programming to foster computational thinking. 2017. - Proceedings of the 9th International Conference on Computer Supported Education (CSEDU), 2, pp. 109-116. DOI: 10.5220/0006310101090116 Citation index. Scopus: 0, Google scholar: 2</p>
<p>Fronza, I. and Wang, X. Towards an Approach to Prevent Social Loafing in Software Development Team. (2017) International Symposium on</p>

<p>Empirical Software Engineering and Measurement (ESEM), pp. 241-246. DOI: 10.1109/ESEM.2017.37 Citation index. Scopus: 0, Google scholar: 0</p>
<p>Fronza, I., Ioini, N.E., Corral, L., Moroder, M., Moroder, M. 2017. Monitoring multicopters energy consumption. In Proceedings of the 6th Annual Conference on Research in Information Technology (RIIT 2017), pp. 29-34. DOI: 10.1145/3125649.3125657. BEST PAPER AWARD. Citation index. Scopus: 0, Google scholar: 0</p>
<p>Fronza, I. and Gallo, D. 2016. Towards mobile assisted language learning based on Computational Thinking. International Conference on Web-based Learning (ICWL'16, 26-29 October, 2016, Rome, Italy), ICWL 2016, LNCS 10013, pp. 141-150, 2016, Springer International Publishing, ISBN 978-3-319-47439-7. DOI: 10.1007/978-3-319-47440-3_16. Short-listed for ICWL 2016 "Best Paper award". Citation index. Scopus: 0, Google scholar: 0</p>
<p>Djurdjevic-Pahl, A., Pahl, C., Fronza, I., El Ioini, N. 2017. A pathway into computational thinking in primary schools. <i>Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)</i>, 10108 LNCS, pp. 165-175. ISSN: 03029743, ISBN: 978-331952835-9. DOI: 10.1007/978-3-319-52836-6_19 Citation index. Scopus: 1, Google scholar: 1</p>
<p>Fronza, I., El Ioini, N., and Corral, L. 2016. Teaching Software Design Engineering Across the K-12 Curriculum: Using Visual Thinking and Computational Thinking. In <i>Proceedings of the 17th Annual Conference on Information Technology Education (SIGITE '16)</i>. ACM, New York, NY, USA, 97-101. DOI: 10.1145/2978192.2978220. Citation index. Scopus: 0, Google scholar: 1</p>
<p>Fronza, I., Corral, L., and El Ioini, N. 2016. Computational Thinking Through Mobile Programming: A Case Study in a Liberal Education Context. In Proceedings of the 13th International Conference on Mobile Web and Intelligent Information Systems (MobiWIS'16, 22-24 August 2016, Vienna, Austria), M. Younas et al. (Eds.): MobiWIS 2016, LNCS 9847, pp. 67-80, 2016, Springer International Publishing. DOI: 10.1007/978-3-319-44215-0_6 Citation index. Scopus: 1, Google scholar: 0</p>
<p>Corral, L., Fronza, I., El Ioini, N., and Ibershimi, A. 2016. A Measurement Tool to Track Drones Battery Consumption During Flights. In Proceedings of the 13th International Conference on Mobile Web and Intelligent Information Systems (MobiWIS'16, 22-24 August 2016, Vienna, Austria), M. Younas et al. (Eds.): MobiWIS 2016, LNCS 9847, pp.</p>

334-344, 2016, Springer International Publishing. DOI: [10.1007/978-3-319-44215-0_28](https://doi.org/10.1007/978-3-319-44215-0_28)

Citation index. Scopus: 3, Google scholar: 2

Corral, L., Fronza, I., El Ioini, N., Janes, A., and Plant, P. 2016. An Android Kernel Extension to Save Energy Resources without Impacting User Experience. In Proceedings of the 13th International Conference on Mobile Web and Intelligent Information Systems (MobiWIS'16, 22-24 August 2016, Vienna, Austria), M. Younas et al. (Eds.): MobiWIS 2016, LNCS 9847, pp. 3-17, 2016, Springer International Publishing. DOI: [10.1007/978-3-319-44215-0_1](https://doi.org/10.1007/978-3-319-44215-0_1) **BEST PAPER AWARD.**

Citation index. Scopus: 1, Google scholar: 2

Fronza, I., Corral, L., El Ioini, N., and Ibershimi, A. 2016. Towards Optimization of Energy Consumption of Drones with Software-Based Flight Analysis. In Proceedings of the International Conference on Software Engineering and Knowledge Engineering (SEKE'16, San Francisco, USA, June 30-July 3, 2016). DOI: [10.18293/SEKE2016-050](https://doi.org/10.18293/SEKE2016-050).

Citation index. Scopus: 2, Google scholar: 2

Fronza, I. and Trebeschi, S. 2016. Overview: ownership visualization word cloud. In Proceedings of the 18th International Conference on Enterprise Information Systems (ICEIS 2016, Rome, Italy, April 25-28, 2016), vol. 1, pages 405-412. DOI: [10.5220/0005753804050412](https://doi.org/10.5220/0005753804050412)¹¹_{SEP}

Citation index. Scopus: 0, Google scholar: 0

Fronza, I., El Ioini, N., and Corral, L. 2016. Blending Mobile Programming and Liberal Education in a Social-Economic High School. In *Proceedings of the International Conference on Mobile Software Engineering and Systems* (MOBILESoft '16). ACM, New York, NY, USA, 123-126. DOI: [10.1145/2897073.2897096](https://doi.org/10.1145/2897073.2897096).

Citation index. Scopus: 1, Google scholar: 3

Corral, L., Fronza, I., El Ioini, N., Janes, A., and Plant, P. 2016. Preserving Energy Resources using an Android Kernel Extension: a Case Study. Preserving energy resources using an Android kernel extension: a case study. In *Proceedings of the International Conference on Mobile Software Engineering and Systems* (MOBILESoft '16). ACM, New York, NY, USA, 23-24. DOI: [10.1145/2897073.2897124](https://doi.org/10.1145/2897073.2897124).

Citation index. Scopus: 0, Google scholar: 1

Corral, L. and Fronza, I. 2015. Better Code for Better Apps: A Study on Source Code Quality and Market Success of Android Applications. In Proceedings of the 2nd IEEE/ACM International Conference on Mobile Software Engineering and Systems (MobileSoft'15, May 16-17, 2015, Florence, Italy), pages 22-32. DOI: [10.1109/MobileSoft.2015.10](https://doi.org/10.1109/MobileSoft.2015.10)

Citation index. Scopus: 9, Google scholar: 17

Corral, L., Fronza, I., Gennari, R., and Melonio, A. 2015. From Game Design with Children to Game Development with University Students: What Issues Come Up?. In Proceedings of the 11th Biannual Conference on Italian SIGCHI Chapter (CHIItaly'15, September 28–30, Rome, Italy), ACM, New York, NY, USA, pages 30-33. DOI: [10.1145/2808435.2808441](https://doi.org/10.1145/2808435.2808441)
Citation index. Scopus: 2, Google scholar: 1

Fronza, I., El Ioini, N., and Corral, L. 2015. Students Want to Create Apps: Leveraging Computational Thinking to Teach Mobile Software Development. In Proceedings of the 16th Annual Conference on Information Technology Education (SIGITE'15, September 30–October 3, 2015, Chicago, IL, USA). ACM, New York, NY, USA, pages 21-26. DOI: [10.1145/2808006.2808033](https://doi.org/10.1145/2808006.2808033)
Citation index. Scopus: 10, Google scholar: 15

Fronza, I., Janes, A., Sillitti, A., Succi, G., and Trebeschi, S. 2013. Cooperation wordle using pre-attentive processing techniques. Tested for colorblind observers. The 6th International Workshop on Cooperative and Human Aspects of Software Engineering (CHASE'13, ICSE 2013 Workshop, May 2013, San Francisco, USA), pages 57-64. DOI: [10.1109/CHASE.2013.6614732](https://doi.org/10.1109/CHASE.2013.6614732)
Citation index. Scopus: 9, Google scholar: 12

Abrahamsson, P., Fronza, I., Moser, R., Pedrycz, W., and Vlasenko, J. 2011. Predicting Development Effort from User Stories. In Proceedings of the 5th International Symposium on Empirical Software Engineering (ESEM'11, Banff, Canada, 23-24 September, 2011). DOI: [10.1109/ESEM.2011.58](https://doi.org/10.1109/ESEM.2011.58)
Citation index. Scopus: 19, Google scholar: 35

Fronza, I., Sillitti, A., Succi, G., and Vlasenko, J. 2011. Failure Prediction based on Log Files Using the Cox Proportional Hazard Model. In Proceedings of the International Conference on Software Engineering and Knowledge Engineering (SEKE'11, Miami, USA, 7-9 July, 2011), pages 456-461. ISBN: 1-891706-29-2
URL:http://www.ksi.edu/seke/Proceedings/seke/SEKE2011_Proceedings.pdf.
Citation index. Scopus: 5, Google scholar: 4

Fronza, I., Sillitti, A., Succi, G., and Vlasenko, J. 2011. Toward a non-invasive control of applications. A biomedical approach to failure prediction. In Proceedings of the 14th International Conference on Enterprise Information System (ICEIS'11, Beijing, China, 8-11 June, 2011), pages 83-91. DOI: [10.5220/0003493000830091](https://doi.org/10.5220/0003493000830091)
Citation index. Scopus: 0, Google scholar: 0

Abrahamsson, P., Fronza, I., and Vlasenko, J. 2011. Failure Prediction Using the Cox Proportional Hazard Model. In Proceedings of the 6th International Conference on Software and Data Technologies, (ICSOFT'11, Seville, Spain 18-21 July, 2011), pages 201-206. DOI: [10.5220/0003557802010206](https://doi.org/10.5220/0003557802010206)

Citation index. Scopus: 0, Google scholar: 4

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Further data

Presentations at scientific conferences over past 3 years (invited or selected, keynote, nature and status of conference)

- 18th Koli Calling International Conference on Computing Education Research (Koli Calling 2018, 22-25 November 2018, Koli, Finland)
- Systems of Assessments for Computational Thinking Learning workshop (TACKLE 2018 at EC-TEL 201, September 3rd, 2018, Leeds, United Kingdom), chair
- 19th Annual Conference on Information Technology Education (SIGITE 2018, 3-6 October 2018, Fort Lauderdale, Florida), selected
- 49th ACM Technical Symposium on Computer Science Education (ICSOFT 2018, 26-28 July 2018, Porto, Portugal), selected
- 49th ACM Technical Symposium on Computer Science Education (SIGCSE 2018, 21-24 February 2018, Baltimore, Maryland, USA), invited
- ACM / IEEE International Symposium on Empirical Software Engineering and Measurement (ESEM 2017, 9-10 November 2017, Toronto, Canada), selected
- 18th Annual Conference on Information Technology Education and the 6th Annual Conference on Research in Information Technology (SIGITE-RIIT 2017, 4-7 October 2017, Rochester, NY), selected
- 15th International Conference on Web-based Learning (ICWL'16, 26-29 October 2016, Rome, Italy), selected
- 17th Annual Conference on Information Technology Education (SIGITE'16, September 29–October 1, 2016, Boston, MA, USA), selected
- 18th International Conference on Enterprise Information Systems (ICEIS'16, Rome, Italy, April 25-28, 2016), selected
- DIDAMATICA 2016 (Udine, Italy, April 19-21, 2016), selected
- 16th Annual Conference on Information Technology Education (SIGITE'15, September 30–October 3, 2015, Chicago, IL, USA), selected

Entrepreneurship

Patent – with Nokia Finland.

Title: System and method for determining context

Description: The invention relates to determining a context of a system so that the system can be controlled or the context information be used in the system. The context of a system is described with tags or words that characterize e.g. the state of the system, the surroundings of the system and the state of the user. These tags are determined at multiple time instances. The tags are collected over a first time span and a second time span, and the two (or more) sets of tags are used to determine the context of the system. If the determination using the two sets gives a different result, that is, there is a large distance between the two derived contexts, it is determined that a change in context has occurred. Detecting the change in context can be used to control the system, e.g. by changing the applications presented to the user on the user interface, or by changing the state and/or priority of applications.

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Publication number: US20150154285, 04/06/2015 / EP2817735,

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Application number: 14/378,015

<https://www.google.com/patents/US20150154285>

**Language
competence**

Italian, written and spoken: mother tongue

English, written and spoken: C1 (CAE) - certificate is appended

German, written and spoken: B2 (Goethe Zertifikat) - certificate is appended

The Autonomous Province of Bolzano bilingual certificate B level, Zweisprachigkeitsnachweis, Bescheinigung über Kenntnis der italienischen und der deutschen Sprache (Autonome Provinz Bozen – Südtirol) – certificate is appended

Date

14.11.2018

Signature

A handwritten signature in black ink, appearing to read "Jalla Kronta". The signature is stylized with a large initial 'J' and a prominent 'K'.