Personal Information

Name	Larisa Safina
Citizenship	Russia
DBLP	http://dblp.uni-trier.de/pers/hd/s/Safina:Larisa
LinkedIn	https://www.linkedin.com/in/lsafina/

Professional Experience

2020 - current **Postdoc**, *INRIA*, Lille, France.
Working on the implementation of the Rigorous System Design approach in the JavaBIP exogenous coordination framework, allowing its effective use in industrial development projects. The primary goals of the project are to obtain behavioral models of the coordinated software entities and to detect the deviations between these models and the corresponding executable code in the face of software evolution

2019-2020 **Research Engineer**, *INRIA*, Lille, France.

2015-2019 **Researcher, Lecturer**, *Software Science and Engineering laboratory, Innopolis University*, Innopolis, Russian Federation.
Working on various research projects in the fields of software engineering, software architecture, microservices, and type systems. Teaching undergraduate- and graduate courses, co-supervising students theses.

2013-2014 **Head of Quality Assurance**, *FIX, LLC*, Kazan, Russian Federation.

2011-2013 **Software Test Engineer**, *Fujitsu GDC Russia*, Kazan, Russian Federation.

Education

2020 **Ph.D in Computer Science**, *University of Southern Denmark, Denmark*.
Thesis: *Formal methods and patterns for microservices*

2015 **Master degree in Software Engineering**, *Innopolis University, Russia*.
Thesis: *Development of energy saving portal as a part of automated lighting control and monitoring system*

2012 **Master degree in Computational Mathematics and Cybernetics**, *Kazan State University, Russia*.
Thesis: *Boundary elements method for Dirichlet problem solving*

Selected Publications

2019 Luís Cruz-Filipe, Fabrizio Montesi, and Larisa Safina *Implementing Choreography Extraction*, Electronic libraries, CoRR, abs/1910.11741, 2019

Saverio Giallorenzo, Fabrizio Montesi, Larisa Safina, and Stefano Pio Zingaro *Ephemeral data handling in microservices.* In Elisa Bertino, Carl K. Chang, Peter Chen, Ernesto Damiani, Michael Goul, and Katsunori Oyama, editors, *2019 IEEE International Conference on Services Computing, SCC 2019, Milan, Italy, July 8–13, 2019*, pages 234–236. IEEE, 2019

2017 Nicola Dragoni, Saverio Giallorenzo, Alberto Lluch-Lafuente, Manuel Mazzara, Fabrizio Montesi, Ruslan Mustafin, and Larisa Safina *Microservices: Yesterday, today, and tomorrow.* In Manuel Mazzara and Bertrand Meyer, editors, *Present and Ulterior Software Engineering*, pages 195–216. Springer, 2017

Full Publications List

2020   Evgeny Bobrov, Antonio Bucchiarone, Alfredo Capozucca, Nicolas Guelfi, Manuel Mazzara, Alexandr Naumchev, and Larisa Safina *Devops and its philosophy: Education matters!* In Antonio Bucchiarone, Nicola Dragoni, Schahram Dustdar, Patricia Lago, Manuel Mazzara, Victor Rivera, and Andrey Sadovykh, editors, *Microservices, Science and Engineering*, pages 349–361. Springer, 2020

        Julien Lange, Anastasia Mavridou, Larisa Safina, and Alceste Scalas, editors *Proceedings 13th Interaction and Concurrency Experience, ICE 2020, Online, 19 June 2020*, volume 324 of *EPTCS*, 2020

2019   Saverio Giallorenzo, Fabrizio Montesi, Larisa Safina, and Stefano Pio Zingaro *Ephemeral data handling in microservices.* In Elisa Bertino, Carl K. Chang, Peter Chen, Ernesto Damiani, Michael Goul, and Katsunori Oyama, editors, *2019 IEEE International Conference on Services Computing, SCC 2019, Milan, Italy, July 8–13, 2019*, pages 234–236. IEEE, 2019

        Saverio Giallorenzo, Fabrizio Montesi, Larisa Safina, and Stefano Pio Zingaro *Ephemeral data handling in microservices - technical report.* CoRR, abs/1904.11327, 2019

        Luís Cruz-Filipe, Fabrizio Montesi, and Larisa Safina *Implementing Choreography Extraction*, Electronic libraries, CoRR, abs/1910.11741, 2019

2018   Manuel Mazzara, Alexandr Naumchev, Larisa Safina, Alberto Sillitti, and Konstantin Urysov *Teaching devops in corporate environments - an experience report.* In Jean-Michel Bruel, Manuel Mazzara, and Bertrand Meyer, editors, *Software Engineering Aspects of Continuous Development and New Paradigms of Software Production and Deployment - First International Workshop, DEVOPS 2018, Chateau de Villebrumier, France, March 5–6, 2018, Revised Selected Papers*, volume 11350 of *Lecture Notes in Computer Science*, pages 100–111. Springer, 2018

2017   Nicola Dragoni, Ivan Lanese, Stephan Thordal Larsen, Manuel Mazzara, Ruslan Mustafin, and Larisa Safina. *Microservices: How to make your application scale.* In Alexander K. Petrenko and Andrei Voronkov, editors, *Perspectives of System Informatics - 11th International Andrei P. Ershov Informatics Conference, PSI 2017, Moscow, Russia, June 27–29, 2017, Revised Selected Papers*, volume 10742 of *Lecture Notes in Computer Science*, pages 95–104. Springer, 2017

2017   Nicola Dragoni, Saverio Giallorenzo, Alberto Lluch-Lafuente, Manuel Mazzara, Fabrizio Montesi, Ruslan Mustafin, and Larisa Safina *Microservices: Yesterday, today, and tomorrow.* In Manuel Mazzara and Bertrand Meyer, editors, *Present and Ulterior Software Engineering*, pages 195–216. Springer, 2017

        Bogdan Mingela, Nikolay Troshkov, Manuel Mazzara, Larisa Safina, and Alexander Tchitchigin *Towards static type-checking for jolie.* CoRR, abs/1702.07146, 2017

        Evgenii Akentev, Alexander Tchitchigin, Larisa Safina, and Manuel Mazzara *Verified type checker for jolie programming language.* CoRR, abs/1703.05186, 2017

2016   Larisa Safina, Manuel Mazzara, Fabrizio Montesi, and Victor Rivera *Data-driven workflows for microservices: Genericity in jolie.* In Leonard Barolli, Makoto Takizawa, Tomoya Enokido, Antonio J. Jara, and Yann Bocchi, editors, *30th IEEE International Conference on Advanced Information Networking and Applications, AINA 2016, Crans-Montana, Switzerland, 23–25 March, 2016*, pages 430–437. IEEE Computer Society,2016

Alexander Tchitchigin, Max Talanov, Larisa Safina, and Manuel Mazzara *Robot dream.* In Gordan Jezic, Yun-Heh Jessica Chen-Burger, Robert J. Howlett, and Lakhmi C. Jain, editors, *Agent and Multi-Agent Systems: Technology and Applications, 10th KES International Conference, KES-AMSTA 2016, Puerto de la Cruz, Tenerife, Spain, June 15–17, 2016, Proceedings*, volume 58 of *Smart Innovation, Systems and Technologies*, pages 291–298. Springer, 2016

Manuel Mazzara, Kevin Khanda, Ruslan Mustafin, Victor Rivera, Larisa Safina, and Alberto Sillitti *Microservices science and engineering.* In Paolo Ciancarini, Stanislav Litvinov, Angelo Messina, Alberto Sillitti, and Giancarlo Succi, editors, *Proceedings of 5th International Conference in Software Engineering for Defence Applications - SEDA 2016, Rome, Italy, May 10th, 2016*, volume 717 of *Advances in Intelligent Systems and Computing*, pages 11–20. Springer, 2016

Kizilov Mikhail, Antonio Bucchiarone, Manuel Mazzara, Larisa Safina, and Victor Rivera *Domain objects and microservices for systems development: A roadmap.* In Paolo Ciancarini, Stanislav Litvinov, Angelo Messina, Alberto Sillitti, and Giancarlo Succi, editors, *Proceedings of 5th International Conference in Software Engineering for Defence Applications - SEDA 2016, Rome, Italy, May 10th, 2016*, volume 717 of *Advances in Intelligent Systems and Computing*, pages 97âĂŞ107. Springer, 2016

Alexey Bandura, Nikita Kurilenko, Manuel Mazzara, Victor Rivera, Larisa Safina, and Alexander Tchitchigin *Jolie community on the rise.* In *9th IEEE International Conference on Service-Oriented Computing and Applications, SOCA 2016, Macau, China, November 4-6, 2016*, pages 40–43. IEEE Computer Society, 2016

Alexander Tchitchigin, Larisa Safina, Manuel Mazzara, Mohamed Elwakil, Fabrizio Montesi, and Victor Rivera *Refinement types in jolie.* CoRR, abs/1602.06823, 2016

Alexander Tchitchigin, Max Talanov, Larisa Safina, and Manuel Mazzara *Neuromorphic robot dream.* CoRR, abs/1607.08131, 2016

Manuel Mazzara, Ruslan Mustafin, Larisa Safina, and Ivan Lanese *Towards microservices and beyond: An incoming paradigm shift in distributed computing.* CoRR,abs/1610.01778, 2016

Conference Speaker

2019	IEEE International Conference on Services Computing, Milan, Italy
2019	21st International Conference on Coordination Models and Languages, Copenhagen, Denmark
2019	The International Conference on Microservices 2019, Dortmund, Germany
2017	A.P. Ershov Informatics Conference 10th edition (PSI), Moscow, Russia
2016	The 9th IEEE International Conference on Service Oriented Computing & Applications (SOCA), Macau, China
2016	The International Conference on Advanced Information Networking and Applications (AINA), Crans-Montana, Switzerland
2016	10th International KES Conference on Agents and Multi-Agent Systems: Technologies and Applications (AMSTA), Tenerife, Spain
2013	14st International Conference on Software Quality Assurance (SQA Days), Lvov, Ukraine

Conference Chair

2021   14th Interaction and Concurrency Experience (ICE) workshop co-located with 16th International Federated Conference on Distributed Computing Techniques (DisCoTec)

2020   13th Interaction and Concurrency Experience (ICE) workshop co-located with 15th International Federated Conference on Distributed Computing Techniques (DisCoTec)

Conference PC Member

2021   23rd International Conference on Coordination Models and Languages (COORDINATION)

2021   2nd IEEE International Conference on Autonomic Computing and Self-Organizing Systems (ACSOS)

2021   2nd International Conference on Nonlinearity, Information and Robotics (NRI), Innopolis, Russia

2020   Agility with Microservices Programming workshop co-located with 21st International Conference on Agile Software Development (XP)

2019   The International Conference on Microservices 2019, Dortmund, Germany

2019   Workshop on Cloud Native Applications Design and Experience (CNAX19), Aukland, New Zealand

2018   3rd International Workshop on Microservices: Science and Engineering (MSE), Toulouse, France

2017   2nd Workshop on Microservices: Science and Engineering, Trento, Italy

Subreviewer

2021   The 26th International Conference on Formal Methods for Industrial Critical Systems (FMICS)

2020   22rd International Conference on Coordination Models and Languages (COORDINATION)

Publicity Chair

2021   Agility with Microservices Programming (AMP) Workshop at 22nd International Conference on Agile Software Development (XP)

Virtualization chair

2021   International conference on formal methods in software engineering (FormaliSE) colocated with 43rd International Conference on Software Engineering (ICSE), 2021

Ethics Committee member

2021   Microservices Community, a European-based international community interested in the software paradigm of Microservices

Grants

2019   Erasmus+ grant for staff training between Innopolis University, Russia, and University of Birmingham, UK

2019   Travel grant for the International Conference on Microservices 2019

2018   COST action CA15123 grant for the EUTypes Summer School on Types for Programming and Verification, Ohrid, Macedonia

2017   Travel grant for the School and Workshop on Univalent Mathematics, Birmingham, UK

Teaching Experience

Year	Description
2019	Personal Software Process, secondary instructor, Innopolis University
2018	Theory of Computation, teacher assistant, Innopolis University
2018	Software Architecture, teacher assistant, Innopolis University
2018	First Year Project in Computer Science, mentor, University of Southern Denmark
2017	Personal Software Process, primary instructor, Innopolis University
2017	Data Modeling and Databases, teacher assistant, Innopolis University
2017	First Year Project in Computer Science, mentor, University of Southern Denmark
2016	Theory of Computation, teacher assistant, Innopolis University
2015	Theory of Computation, teacher assistant, Innopolis University
2014	Introduction to Software Testing, primary instructor, Kazan State University

Workshops and Schools

Year	Description
2021	Oregon Programming Languages Summer School (OPLSS), virtual
2020	The 3rd Summer School on Practice and Theory of Distributed Computing (SPTDC), virtual
2019	School and Workshop on Univalent Mathematics, Birmingham, UK
2018	2018 EUTypes Summer School on Types for Programming and Verification, Ohrid, Macedonia
2017	School and Workshop on Univalent Mathematics, Birmingham, UK
2017	The 2nd Winter School in Engineering and Computer Science on Formal Verification, Jerusalem, Israel
2017	Instructional Skills Workshops, Innopolis, Russia
2016	BETTY Summer School on Behavioral Types, Limassol, Cyprus
2016	Spring Young Researchers' Colloquium on Software Engineering (SYRCoSE), Krasnovidovo, Russia

Certification

Year	Description
2015	Managing of Software Development, Carnegie Mellon University
2015	Methods of Software Development, Carnegie Mellon University
2015	Models of Software Systems, Carnegie Mellon University
2015	Architectures for Software Systems, Carnegie Mellon University
2015	Analysis of Software Artifacts, Carnegie Mellon University
2013	ISEB Intermediate
2011	ISEB Foundation

Language Competence

Language	Level
Russian	Mother tongue
English	Full professional proficiency
Italian	B1
French	A1/A2