CURRICULUM VITAE

Personal Information

Name	Sinem Getir Yaman
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Languages

Turkish	Native
English	Full professional proficiency
German	Upper intermediate

Research interests

- Software Evolution
- Model based development of Software
- Incremental Verification
- Quantitative Verification
- Probabilistic Model Checking

Professional Membership

IEEE 982.1 working group on Standard for Measures of the
Software Aspects of Dependability

Education

07.2016-2021	PhD, “Quantitative Verification and Modeling of Evolving Software”, June 2021, Humboldt University Berlin, Supervisor: Prof. Dr. Lars Grunske Co-advisor: Dr. Esteban Pavese (2016-2018) Software Engineering Group
01.2013-06.2016	PhD, “Co-evolution of Software Models with Fault Trees and Incremental Fault Tree Evaluation”, 2013 -subject change Stuttgart University Supervisor: Prof. Dr. Lars Grunske, Co-adviser: Prof. Dr. Matthias Tichy
10.2009 - 07.2012	Master, “Formal Semantics of a Domain Specific Language called SEA_ML”, Ege University International Computer Institute, Supervisor: Asst. Prof. Geylani Kardas. GPA: 87/100
09.2005 – 07.2009	BA, Mathematics & Computer Science, “Parametric time analysis for complex structures”, Ege University Faculty of Science, Supervisor: Prof. Dr. Ernst Althaus, Johannes Gutenberg Uni, Informatics MAINZ, Germany, Prof. Dr. Urfat Nuriyev, Ege University, Mathematics, Computer Science, Izmir. GPA: 3.33/4.00
09.2002 – 09.2005	High School, Mathematics and Science, Private Ege High School, Izmir, Turkey (With Scholarship), GPA: 5.00/5.00

Summer schools

07.07.2014 – 11.07.2014	11th Summer School on “Modeling and Verification of Parallel Processes”, Nantes, France, 2014
31.03.2014 - 04.04.2014	Spring School of the DFG Priority Programme 1593, 2014
08.2013 - 08.2013	Summer School Marktoberdorf 2013, “Software Systems Safety” Advanced Study Institute of the NATO Science for Peace and Security Programme, Marktoberdorf, Germany, 2013

Teaching Experience

05.2019-	Research Associate, post-doc, Software Engineering Group, Courses assisted: OOP programming, Data Structures, Multi-agent Systems.
05.2016-04.2019	Research Associate, Humboldt University Berlin, Software Engineering Group, Development Project:” Conformance Checking of Software and Reliability Models”
10.2012 – 04.2016	Research and teaching Associate, University of Stuttgart, Reliable Software Systems, Courses assisted: “Requirements Engineering and Software-Architecture”. Seminars: “Advanced Software Engineering: Software Analytics”, “Selected Topics in Software Engineering: Software Verification”, “Advanced Software Engineering: Non-Functional Aspects in Software Engineering” Development Project:” A generic framework for multi- view co-evolution and evaluation of models”
09.2010-09.2012	Research and teaching Assistant, Ege University, Izmir, Courses assisted: Programing languages, Data Structures, Discrete Mathematics

Projects&Grants

12.2015 – 05.2019	ENSURE II, the priority research program (SPP1593) supported by German Research Foundation (DFG),(working as a researcher)
10.2012 – 11.2015	ENsurance of Software evolUtion by Run-time cErtication (ENSURE), the priority research program (SPP1593) supported by German Research Foundation (DFG),(working as a researcher)
05.2010 – 09.2012	"A Domain Specific Modeling Language for Semantic Web enabled Multi-agent Systems", TUBITAK (The Scientific & Technological Research Council of Turkey) and ARRS (Slovenian Research Agency) funded bilateral research project. (with project no: 109E125 and budget: $86000) (working as a researcher)
2018	Fraunförderungkomssion (Women support committee) Humboldt University, Berlin FSE'18 conference, 800€
08.2013 - 08.2013	Summer School Marktoberdorf 2013, "Software Systems Safety" Advanced Study Institute of the NATO Science for Peace and Security Programme, supported by DAAD (German Academic Exchange Service) with %50 scholarship
2011	ACM SIGPLAN grants for SPLASH '11, Portland-Oregon (1000$)
2008	%10 Degree scholarship, Mathematics Departments of Ege University

Publications

- **Sinem Getir Yaman**, Esteban Pavese, Lars Grunske:
  Quantitative Verification of Stochastic Regular Expressions In: Fundam. Informaticae 179(2): 135-163, 2021

- Tanja E. J. Vos, I. S. W. B. Prasetya, Sigrid Eldh**, Sinem Getir**, Ali Parsai, Pekka Aho:
  Automating TEST Case Design, Selection and Evaluation Report on 10 Editions of A-TESTWorkshop. ACM SIGSOFT Softw. Eng. Notes 45(1): 21-24 (2020)

- **Sinem Getir**, André van Hoorn, Timo Kehrer, Yannic Noller, Matthias Tichy:
  Supporting Semi-Automatic Co-Evolution of Architecture and Fault Tree Models. SE/SWM 2019: 57-58

- Stefan Kögel, Matthias Tichy, Abhishek Chakraborty, Alexander Fay, Birgit Vogel-Heuser, Christopher Haubeck, Gabriele Taentzer, Timo Kehrer, Jan Ladiges, Lars Grunske, Mattias Ulbrich, Safa Bougouffa**, Sinem Getir**, Suhyun Cha, Udo Kelter, Winfried Lamersdorf, Kiana Busch, Robert Heinrich, Sandro Koch:
  Learning from Evolution for Evolution. Managed Software Evolution 2019: 255-308

- Thomas Thüm, André van Hoorn, Sven Apel, Johannes Bürdek, **Sinem Getir**, Robert Heinrich, Reiner Jung, Matthias Kowal, Malte Lochau, Ina Schaefer, Jürgen Walter: *Performance Analysis Strategies for Software Variants and Versions*. Managed Software Evolution 2019: 175-206

- **Sinem Getir**, Lars Grunske, André van Hoorn, Timo Kehrer, Yannic Noller, Matthias Tichy:
  Supporting semi-automatic co-evolution of architecture and fault tree models. J. Syst. Softw. 142: 115-135 (2018)

- **Sinem Getir**, Esteban Pavese, Lars Grunske: *Formal Semantics for Probabilistic Verification of Stochastic Regular Expressions*. CS&P 2018

- **Sinem Getir**, Duc Anh Vu, Francois Peverali, Daniel Strüber, Timo Kehrer:
  State Elimination as Model Transformation Problem. TTC@STAF 2017: 65-73

- **Sinem Getir**, Lars Grunske, Christian Karl Bernasko, Verena Käfer, Tim Sanwald, Matthias Tichy:
  CoWolf - A Generic Framework for Multi-view Co-evolution and Evaluation of Models. ICMT 2015: 34-40

- Birgit Vogel-Heuser, Stefan Feldmann, Jens Folmer, Jan Ladiges, Alexander Fay, Sascha Lity, Matthias Tichy, Matthias Kowal, Ina Schaefer, Christopher Haubeck, Winfried Lamersdorf, Timo Kehrer, **Sinem Getir**, Mattias Ulbrich, Vladimir Klebanov, Bernhard Beckert: *Selected challenges of software evolution for automated production systems.* INDIN 2015: 314-321

- Moharram Challenger, Sebla Demirkol, **Sinem Getir**, Marjan Mernik, Geylani Kardas, Tomaz Kosar: *On the use of a domain-specific modeling language in the development of multiagent systems*. Eng. Appl. Artif. Intell. 28: 111-141 (2014)

- **Sinem Getir**, Moharram Challenger, Geylani Kardas: *The Formal Semantics of a Domain-Specific Modeling Language for Semantic Web Enabled Multi-Agent Systems*. Int. J. Cooperative Inf. Syst. 23(3) (2014)

- **Sinem Getir**, Michaela Rindt, Timo Kehrer: *A Generic Framework for Analyzing Model Co-Evolution*. ME@MoDELS 2014: 12-21

- Sebla Demirkol, Moharram Challenger, Sinem Getir, Tomaz Kosar, Geylani Kardas, Marjan Mernik: A DSL for the development of software agents working within a semantic web environment. Comput. Sci. Inf. Syst. 10(4): 1525-1556 (2013)

- **Sinem Getir**, André van Hoorn, Lars Grunske, Matthias Tichy: *Co-Evolution of Software Architecture and Fault Tree models: An Explorative Case Study on a Pick and Place Factory Automation System*. NiM-ALP@MoDELS 2013: 32-40

- **Sinem Getir**, Moharram Challenger, Sebla Demirkol, Geylani Kardas: *The Semantics of the Interaction between Agents and Web Services on the Semantic Web*. COMPSAC Workshops 2012: 619-624

- Sebla Demirkol, Moharram Challenger, **Sinem Getir**, Tomaz Kosar, Geylani Kardas, Marjan Mernik: *SEA_L: A Domain-specific Language for Semantic Web enabled Multi-agent Systems*. FedCSIS 2012: 1373-1380

- Moharram Challenger**, Sinem Getir**, Sebla Demirkol, Geylani Kardas: *A Domain Specific Metamodel for Semantic Web Enabled Multi-Agent Systems*. CAiSE Workshops 2011: 177-186

- **Sinem Getir**, Sebla Demirkol, Moharram Challenger, Geylani Kardas: *The GMF-based syntax tool of a DSML for the semantic web enabled multi-agent systems*. SPLASH Workshops 2011: 235-238

References

Prof. Dr. Lars Grunske	lars.grunske@googlemail.com
Prof. Dr. Matthias Tichy	matthias.tichy@uni-ulm.de
Prof. Dr. Timo Kehrer	timo.kehrer@informatik.hu-berlin.de