

CURRICULUM VITAE

Tihana Galinac Grbac

PERSONAL INFORMATION

Given name: Tihana
Family name: Galinac Grbac
Date of birth: April 29, 1977
Place of birth: Pula, Croatia
Mailing address: Juraj Dobrila University of Pula, Zagrebačka 30, HR-52100 Pula, Croatia
E-mail: tihana.galinac@unipu.hr
Personal web page: tania.unipu.hr/~tgalinac
Orcid ID: 0000-0002-4351-4082
Web of Science Researcher ID: D-7048-2016
Scopus ID: 57202354149
Croatian researcher ID (MBZ): 263085
Croatian Scientific Bibliography (CROSBI) profile: 21783
Croatian Research Information System (CroRIS) ID: 1315

RESEARCH INTERESTS

- Software and System Engineering
- Large Scale Complex and Distributed Software Systems
- Concurrent and Real-time Systems
- Software Evolution and Product Lines
- Sustainability, Reliability, Safety and Performance
- Trustworthy and Responsible Computing
- Software Defined Networks, Internet of Services and Network Management
- Software Engineering Management and Software Process Improvement
- Applied Statistics, Artificial Intelligence, Soft Computing, Search Based, Evolutionary and Multi-objective Optimisation
- Software Metrics and Models
- Experimentation in Software Engineering, Industrial Focus
- Future Emerging Technologies, Telecommunication Systems and its Applications
- Digitalisation and Smart Systems and Technologies (Smart Cities, Smart Government, Smart Industries)
- Advancing Computer Science Teaching Curricula and Practice

EDUCATION

- Doctoral Degree (Ph.D.), February 26, 2009, University of Zagreb, Croatia
Improving Software Development Efficiency by Managing Early Verification Process
Advisors: Željka Car (Faculty of Electrical Engineering and Computing) and Darko Huljenić (Ericsson Nikola Tesla)
- Master of Science Degree (M.Sc.), April 8, 2005, University of Zagreb, Croatia
Quality of Service Analysis in Next Generation Networks
Advisor: Mladen Kos (Faculty of Electrical Engineering and Computing)
- Certified Six Sigma Black Belt™, 2005–2006
Ericsson AB, Borås and Stockholm, Sweden

- University Engineering Degree (Dipl. Ing.), 2000, University of Zagreb, Croatia
Microstrip Antennas with Circular Polarization
Advisor: Zvonimir Šipuš (Faculty of Electrical Engineering and Computing)
- 20+ courses and seminars (2000–2007) on telecommunications, emerging technologies and applications including
Ericsson telecom switching platform AXE10
Ericsson Conectivity Packet Platform, CPP
AXE Design – methods and tools for AXE systems design
Next Generation Networks
3GPP Standards
Signalling System No.7
ISUP
BICC
etc.
Ericsson Nikola Tesla, Zagreb, Croatia
- Several courses and seminars (2000–2007) on programming languages and software development methods and tools including
Sigma Tool for Parallel Design, Ericsson Business Consultings
Programming Language for EXchanges, PLEX, Ericsson AB, Stockholm Sweden
Erlang, Ericsson AB, Stockholm Sweden
Message Generation Test System, MGTS
Testing and Test Control Notation, TTCN
Clear Case – version control system
e-Matrix – product data management system
etc.
Ericsson Nikola Tesla, Zagreb, Croatia
- Several courses and seminars (2000–2007) on improving skills for the management of the software development projects and understanding the business environment including
iPROPS course for project leaders, SEMCON Project Management, Zagreb, Croatia
MicroSoft Project 2003, ITCENTAR, Zagreb, Croatia
The Way Cash Flows, Ericsson University
Lean Six Sigma, Project Management Institute PMI, Zagreb, Croatia
Bussines Advantage IV, Ericsson Nikola Tesla, Zagreb, Croatia
Communication and Presentation Skills, Ericsson Nikola Tesla, Zagreb, Croatia
etc.
- Series of Business English courses (2000–2007), LINK-BS EDUCA CENTAR, Zagreb, Croatia

SCIENTIFIC DEGREES

- 2018–today: Scientific Advisor (the highest scientific degree in Croatia)
- 2013–2018: Senior Scientific Associate
- 2010–2013: Scientific Associate

WORK EXPERIENCE

- 2018–today: Juraj Dobrila University of Pula, Croatia
Full Professor
- 2016–2018: University of Rijeka, Croatia
Associate Professor
- 2010–2016: University of Rijeka, Croatia
Assistant Professor
- 2010–2010: University of Rijeka, Croatia
Senior Teaching Assistant and Junior Researcher

- 2007–2010: University of Rijeka, Croatia
Teaching Assistant and Junior Researcher,
- 2000–2007: Ericsson Nikola Tesla – Research & Development Center, Zagreb, Croatia, with longer visits to Ericsson Montreal Canada (EMC) and Ericsson Asia-Pacific Australia (EAA), Melbourne, Australia, and many shorter visits to Ericsson in Sweden, Germany, Italy, etc.
Leader of Operation Excellence projects at the Ericsson global corporation level, project leader, team leader, technical coordinator, system manager, system engineer, software engineer, lecturer and leader of the Apprentice Courses

PROJECTS

Research projects and networks

- [P1] 2020–2024
HRZZ-IP-2019-04-4216 Reliability and Safety in Complex Software Systems: from Empirical Principles towards Theoretical Models in View of Industrial Applications, RELYSOFT
Principal Investigator, Croatian Science Foundation research project
- [P2] 2020–2023
2020-1-PT01-KA203-078646 Promoting Sustainability as a Fundamental Driver in Software Development Training and Education, SusTrainable
Croatian Principal Investigator, ERASMUS K203 Strategic Partnerships for Higher Education project
- [P3] 2014–present
International Cooperation in Computer Science
Steering Committee member & local coordinator, Central European Exchange Program for University Studies (CEEPUS) network
- [P4] 2015–2018
HRZZ-UIP-2014-09-7945 Evolving Software Systems: Analysis and Innovative Approaches for Smart Management, EVOSOFT
Principal Investigator, Croatian Science Foundation installation research project
- [P5] 2015–2018
HRZZ-DOK-2015-10- Doctoral Student Funded within the project Evolving Software Systems: Analysis and Innovative Approaches for Smart Management, EVOSOFT
Principal Investigator, Croatian Science Foundation doctoral student project
- [P6] 2013–2018
Analysis and Innovative Approaches to Development, Management and Application of Complex Software Systems
Principal Investigator, University of Rijeka research grant project
- [P7] 2012–present
Laboratory and Educational Support in ICT Technologies
Principal Investigator, research project in collaboration with industry funded by Ericsson Nikola Tesla
- [P8] 2018–2019
An Empirical Comparison of Machine Learning Based Approaches/Techniques for Code Smell Detection
Croatian Principal Investigator, Bilateral Croatian – Slovenian project
- [P9] 2018–2019
EU ERASMUS+ 2017-1-SK01-KA203-035402 Focusing Education on Composability, Comprehensibility and Correctness of Working Software (3COWS)
Croatian Principal Investigator, Erasmus+ project
- [P10] 2013–2017
Autonomous Control for a Reliable Internet of Services, ACROSS
Croatian Management Committee Member, EU COST Action 1304

- [P11] 2012–2016
Behavioural Types for Large-Scale Reliable Systems, BETTY
Croatian Management Committee Member, EU COST Action 1201
 - [P12] 2007–2013
071-0362027-2329 New Architectures and Protocols in Converged Telecommunication Networks
Researcher, Croatian Ministry of Science and Education research project
 - [P13] 2010–2013
069-0362214-1575 Optimisation and Design of Time-Frequency Distributions
Researcher, Croatian Ministry of Science and Education research project
 - [P14] 2012–2018
Academic cooperation of RITEH, University of Rijeka, Croatia, FERI, University of Maribor, Slovenia, PMF, University of Novi Sad, Serbia
Croatian Principal Investigator
 - [P15] 2012–2016
Software Engineering: Computer Science Education and Research Cooperation
Extended Team Researcher, Deutscher Akademischer Austausch Dienst (DAAD), Germany, Stability Pact for South Eastern Europe project
- Technological, industrial and local government projects
- [P16] 2015–2018
eŽupanija [eCounty]
Project team member, Primorsko-goranska county, Croatia, wide-band communication network development project
 - [P17] 2013–2016
Intelligent Urban Energy Tool (iUrban)
Project team member, City of Rijeka, Croatia, city energy efficiency project
 - [P18] 2010–2013
E-Government for You (EGOV4U)
Project team member, City of Rijeka, Croatia, ICT for social inclusion project
 - [P19] 2014–2015
Center of Competence for Smart Cities – Smart RI
Project application team member, City of Rijeka, Croatia, 2014–2020 Operational Program Competitiveness and Cohesion project
 - [P20] 2007–2008
Speech Driven Information Portal Based on the VoiceXML Technology
Research collaborator, Croatian Ministry of Science and Education technology project
 - [P21] 2006–2007
Code Review One Track (Agile) – Software Development Process Improvement
Project leader, Ericsson global corporate level, operational excellence program
 - [P22] 2005–2006
Better Fault Detection – Six Sigma project on Early Defect Detection in Complex Software System Development
Project leader & Six Sigma black belt, Ericsson global corporate level, software process improvement project
 - [P23] 2006
MSC R13 Core Network Release 6.0
Technical coordinator, Ericsson Nikola Tesla, Zagreb, Croatia, software development project
 - [P24] 2005
Capability Maturity Model Integrated (CMMI) Benefits
Project leader, Ericsson Nikola Tesla, Zagreb, Croatia, software process improvement project
 - [P25] 2005–2006
MSC R12.2 Core Network Release 5.0
Technical coordinator, Ericsson Nikola Tesla, Zagreb, Croatia, software development project

- [P26] 2004
MSC R11 Core Network Release 4.0
Project leader, Ericsson Canada, Montréal, Canada, software verification project
- [P27] 2002–2005
MSC R12.1 Core Network Release 5.0
System engineer, Ericsson Nikola Tesla, Zagreb, Croatia, software development project
- [P28] 2000–2001
MSC R11 Core Network Release 4.0
Ericsson Asia-Pacific Lab Pty, Melbourne, Australia, software project and knowledge transfer project
- [P29] 2000–2002
MSC R9 Core Network Release 2.0 and MSC R10 Core Network Release 3.0
Software engineer, Ericsson Nikola Tesla, Zagreb, Croatia, software development projects

INVITED AND KEY-NOTE TALKS

- (1) Galinac Grbac, Tihana
Algorithms for sustainable system topologies (joint with Grbac, Neven)
The 1st SusTrainable Summer School, SusTrainable-22
University of Rijeka, Croatia, July 4–8, 2022 (invited mini-course)
- (2) Galinac Grbac, Tihana
Understanding the relations between static code metric and energy consumption (joint with Fonović, Dalibor)
Sustrainability Workshop collocated with the 8th International Conference on ICT for Sustainability, ICT4S
University of Plovdiv, Bulgaria, June 17, 2022 (invited talk)
- (3) Galinac Grbac, Tihana
Software engineering meets software defined networks
The 8th International Conference on Software Defined Systems, SDS 2021, and
The 8th International Conference on Internet of Things: Systems, Management and Security, IoTSMS 2021
Gandia, Spain, December 6–9, 2021 (key-note talk)
- (4) Galinac Grbac, Tihana
Dynamic topological structures in software
Teacher Training within Promoting Sustainability as a Fundamental Driver in Software Development Training and Education (SusTrainable) project
Radboud University, Nijmegen, Holland, November 1–5, 2021 (invited talk)
- (5) Domazet, Nikola; Galinac Grbac, Tihana
Programming of advanced management and orchestration of virtualized network resources – selection of case studies
Focusing Education on Composability, Comprehensibility and Correctness of Working Software (3COWS) with Extended Central European Functional Programming (CEFP) Summer School
Eötvös Loránd University, Budapest, Hungary, June 17–21, 2019 (invited mini-course)
- (6) Galinac Grbac, Tihana
Program structures and fault behaviour in complex systems
University of Maribor, Slovenia, February 2018 (invited talk)
- (7) Galinac Grbac, Tihana
Programming of management and orchestration of virtualized network resources
Focusing Education on Composability, Comprehensibility and Correctness of Working Software (3COWS) Winter School
Košice, Slovakia, January 2018 (invited mini-course)
- (8) Galinac Grbac, Tihana
Modeling complex software systems behaviour
University of Novi Sad, Serbia, November 2016 (invited talk)

- (9) Galinac Grbac, Tihana
Modeling fault behaviour in evolving complex open software environments
Workshop on Autonomous Control for Reliable Internet of Services
Bilbao, Spain, October 2016 (invited talk)
- (10) Galinac Grbac, Tihana
Virtualisation technologies in software engineering management
Workshop Software Engineering: Computer Science Education and Research Cooperation
Jahorina (Sarajevo), Bosnia and Herzegovina, August 22–26, 2016 (invited talk)
- (11) Galinac Grbac, Tihana
Service management concepts and challenges in cloud environments
2nd International Summer School on Autonomous Control for Reliable Future Networks and Services
Opatija, Croatia, May 27–31, 2016 (invited talk)
- (12) Galinac Grbac, Tihana
Modeliranje ponašanja sustava uz primjenu informacijsko-komunikacijskih tehnologija [System behavior modelling using the information and communications technologies]
in: Mrak, Maja; Ivaniš, Marja; Kralj, Martin; Ploh, Maja (eds.)
MedRi znanstveni piknik [MedRi Scientific Picnic] – the 5th Internal Student Symposium of the Faculty of Medicine and the Faculty of Health Studies, University of Rijeka
Rijeka, Croatia, December 16, 2016
Rijeka, Croatia: Narodne novine d.d., 2016. p. 11 (invited talk)
- (13) Galinac Grbac, Tihana
Empirical analysis of complex software systems behaviour
Lund University, Dept. of Computer Science, Lund, Sweden, November 16, 2015 (invited talk)
- (14) Galinac Grbac, Tihana
Predicting and simulating complex software systems behaviour
Workshop on Autonomous Control for Reliable Internet of Services
Lovran, Croatia, October 8, 2015 (invited talk)
- (15) Galinac Grbac, Tihana
Modeling complex software system behaviour
Jožef Stefan Institute, Ljubljana, Slovenia, September 2015 (invited talk)
- (16) Galinac Grbac, Tihana
Software engineering perspectives in virtual and software defined network environments
Workshop Software Engineering: Computer Science Education and Research Cooperation
Bohinj, Slovenia, August 24–29, 2015 (invited talk)
- (17) Galinac Grbac, Tihana
Programsko inženjerstvo, trendovi razvoja i perspektiva maloga poduzetništva [Software engineering, development trends and small and medium enterprises perspective]
Pula Informatics Student Association (USIP) Conference, Juraž Dobrila University of Pula, Croatia, July 24, 2015 (invited talk)
- (18) Galinac Grbac, Tihana
Reliability pitfalls of real-time switching telecommunication software platforms
Imperial College London, United Kingdom, February 2015 (invited talk)
- (19) Galinac Grbac, Tihana
Reliable Software Networks
1st European Institute of Innovation & Technology EIT ICTLabs Future Networking Solutions Outreach Workshop
Budapest, Hungary, December 5, 2014 (invited talk)
- (20) Galinac Grbac, Tihana
Potential new case studies for behavioural types: switching software systems
WG/MC Meeting on Behavioural Types for Reliable Large-Scale Software Systems
Rome, Italy, August 31, 2014 (invited talk)

- (21) Galinac Grbac, Tihana
BETTY project presentation
Workshop Software Engineering: Computer Science Education and Research Cooperation
Sinaia, Romania, August 25–29, 2014 (invited talk)
- (22) Galinac Grbac, Tihana
Predicting and simulating complex software systems behaviour
3rd Workshop on Autonomous Control for Reliable Internet of Services
Larnaca, Cyprus, 2014 (invited talk)
- (23) Galinac Grbac, Tihana
Theory on the distributions and predictive capability of verification faults
2nd Workshop on Software Quality Analysis, Monitoring, Improvement, and Applications, SQAMIA 2013
Novi Sad, Serbia, September 15–17, 2013 (key-note talk)
- (24) Galinac Grbac, Tihana
Software factory for student projects
Workshop Software Engineering: Computer Science Education and Research Cooperation
Bansko, Bulgaria, August 26–31, 2013 (invited talk)
- (25) Galinac Grbac, Tihana
Uslužno orijentirano računarstvo [Service-oriented computing]
8. Dan novih tehnologija [8th New Technologies Day], DaNTe 2013
Rijeka, Croatia, November 6, 2013 (invited talk)
- (26) Galinac Grbac, Tihana
Towards the knowledge-based society at the Software Engineering and Information Processing Laboratory (SEIP Lab)
Workshop Software Engineering: Computer Science Education and Research Cooperation
Opatija, Croatia, September 2–8, 2012 (invited talk)
- (27) Galinac, Tihana; Car, Željka Continuous improvement framework for global software development
13th International Software & Systems Quality Conference, SQC 2008
Düsseldorf, Germany, April 15–18 April, 2008 (invited talk)

VISITING POSITIONS AND FELLOWSHIPS

- October – December 2015
Lund University, Sweden (visiting professor)
- February 2015
Imperial College London, United Kingdom (visiting professor)
Short Term Scientific Mission (STSM) of the EU COST action 1201 (BETTY)
- 2011
Mälardalen University, Västerås, Sweden (visiting professor)
- 2005–2006
Ericsson AB, Stockholm and Borås, Sweden (Six Sigma Black Belt)
- 2004
Ericsson Canada, Montréal, Canada (visiting system manager)
- 2000
Ericsson Asia-Pacific Lab Pty, Melbourne, Australia (project and knowledge transfer)

AWARDS

- 2019
Best paper award at SQAMIA 2019
- 2017
IEEE Croatian Section Award for Exceptional Contribution to Engineering Education
– for exceptional contribution in knowledge transfer from industry and its application in engineering education in the field of computer science

- 2017
Award for Contribution to Realization of the Mission of MIPRO
on the occasion of the 40th anniversary of MIPRO
- 2016
ICT Gold Awards 2016
elected among TOP 50 Most Influential Women in Croatian ICT
- 2012
Best paper award at MIPRO 2012
- 2008
Best paper award at MIPRO 2008

SERVICE

Institutional Responsibilities

- 2018–present
Head of the Software Engineering and Information Processing Laboratory, SEIP Lab
Juraž Dobrila University of Pula, Croatia
- 2020–present
Committee for Scientific and Artistic Work
Juraž Dobrila University of Pula, Croatia
- 2017–2018
Head of the Department of Computer Engineering
Faculty of Engineering, University of Rijeka, Croatia
- 2011–2018
Head and founder of the Software Engineering and Information Processing Laboratory, SEIP Lab
University of Rijeka, Croatia
- 2008–2011
Head of the Computer Engineering Study Program
University of Rijeka, Croatia
- 2005–2007
Project leader and manager of global operation excellence and improvement projects
Ericsson Nikola Tesla, Zagreb, Croatia
- 2000–2005
System and software engineer in a series of R&D projects for telecommunication software in core
network
Ericsson Nikola Tesla, Zagreb, Croatia

Editorial work

- 2016–present
Journal of Communications Software and Systems
Split, Croatia: Croatian Communications and Information Society (CCIS).
- 2013–present
Proceedings of the International Convention on Information and Communication Technology, Elec-
tronics and Microelectronics, MIPRO
Rijeka, Croatia: IEEE.
- 2013–2016
Engineering Review
Rijeka, Croatia: University of Rijeka.
- 2014
Proceedings of the 3rd Workshop on Software Quality Analysis, Monitoring, Improvement, and
Applications, SQAMIA 2014
Aachen: CEUR Workshop Proceedings, vol. 1266, 2014.

Program and Scientific Committees

- Copenhagen, Denmark, April 14–17, 2019
Trondheim, Norway, April 15–17, 2020 and June 21–24, 2021
Gothenburg, Sweden, June 11–13, 2022
Evaluation and Assessment in Software Engineering, EASE
Vision and Emerging Results Track
- Rome, Italy, June 10–13, 2019
The Fourth International Conference on Fog and Mobile Edge Computing, FMEC 2019
- Saint-Petersburg, Russia, October 7–10, 2019
Belgrade, Serbia, October 11–13, 2017
International Symposium on Intelligent Distributed Computing
- Opatija, Croatia, 2013–present
International Convention on Information and Communication Technology, Electronics and Micro-electronics, MIPRO
- 2013–present
Workshop on Software Quality Analysis, Monitoring, Improvement, and Applications, SQAMIA
- Karlstad, Sweden, June 26–30, 2017
International Summer School on Latency Control for Internet of Services
- L'Aquila, Italy, April 22, 2017
International Workshop on Autonomous Control for Performance and Reliability Trade-offs in Internet of Services
Collocated with the 2017 International Conference on Performance Engineering, ICPE 2017
- Croatia, 2016–present
PhD Forum – collocated with ConTEL, SoftCOM or SST conference
- Opatija, Croatia, May 27–31, 2016
Würzburg, Germany, 2015
International Summer School on Autonomous Control for Reliable Software Systems, ACROSS
- September 2016–2018, Osijek, Croatia
International Conference on Smart Systems and Technologies, SST
- Ljubljana, Slovenia, June 8–17, 2016 International Conference on Advanced Systems Engineering, CAiSE
- Cavtat, Croatia, September 7, 2015
Workshop on Enhancing Software Engineering Education, WESEE
- Rhodes, Greece, 2013–2015
International Symposium on Computer Languages, Implementations and Tools, SCLIT
- Lovran, Croatia, June 30 – July 4, 2014
1st International Summer School on Behavioral Types
- Madrid, Spain, September 23–24, 2013
2nd International Workshop on Behavioural Types, BEAT2
- Dubrovnik, Croatia, June 25–27, 2012
Agent and Multi-Agent Systems: Technologies and Applications
6th KES International Conference, KES-AMSTA 2012
- Bratislava, Slovakia, September 1–3, 2011
Rijeka, Croatia, September 26–29, 2012
September 10–13, Budapest, Hungary, 2013
International Conference on Innovative Technologies, IN-TECH

Evaluation Panels and Reviewing

- 2016–2018
Evaluation Panel of the Croatian Science Foundation (HRZZ) for Technical Sciences – Electrical Engineering and Computer Science
- Served as a reviewer for the following journals (in alphabetical order):
Applied Sciences
Applied Soft Computing

Computer Science and Information Systems
 Electronics
 Empirical Software Engineering
 Engineering Review
 Expert Systems with Applications
 IEEE Transactions on Education
 IET Software
 Information and Software Technology
 Journal of Communications Software and Systems
 Journal of Grid Computing
 Journal of Software: Evolution and Process
 Journal of Systems and Software
 Software Quality Journal
 Software Testing, Verification & Reliability
 Symmetry
 etc. etc.

TEACHING AND SUPERVISING

PhD Students

- Mladen Šverko
ongoing since 2020, supervised jointly with Miljenko Mikuc
Faculty of Electrical Engineering and Computing, University of Zagreb, Croatia
- Nikola Tanković
Optimizing Cloud Information System Configuration Compliant with Service Level Agreement
Doctoral dissertation, Faculty of Electrical Engineering and Computing, University of Zagreb, November 8, 2017. supervised jointly with Mario Žagar
- Goran Mauša
Improvement of Software Defect Prediction Methods Based On Machine Learning
Doctoral dissertation, Faculty of Electrical Engineering and Computing, University of Zagreb, July 18, 2016. supervised jointly with Bojana Dalbelo Bašić

Supervised Postdoc Researchers

- 2016–2018 João Pita Costa
University of Rijeka, Croatia
funded by the Croatian Science Foundation project HRZZ-UIP-2014-09-7945
- 2016–2018 Goran Mauša
University of Rijeka, Croatia
- 2016–2018 Damir Arbula
University of Rijeka, Croatia
- 2017–2019 Nikola Tanković
Juraj Dobrila University of Pula, Croatia

Doctoral Courses

- Bruno Blašković, Tihana Galinac Grbac
Analysis and Synthesis of Real-Time Systems
Postgraduate doctoral study programme, Faculty of Electrical Engineering and Computing, University of Zagreb, Croatia
- Tihana Galinac Grbac, Darko Huljenić
Introduction to Soft Computing and Applications
Postgraduate doctoral study programme, University of Rijeka, Croatia, 2013–2018.

Graduate and Undergraduate Courses

- 2019–today: Complex Systems Engineering, University of Pula

- 2019–today: Computer Networks, University of Pula
- 2019–today: Data Structures and Algorithms, University of Pula
- 2019–today: IT Applications, University of Pula
- 2019–today: Operating Systems, University of Pula
- 2019–today: Software Engineering, University of Pula
- 2013–2018: Software Engineering Management, University of Rijeka
- 2013–2018: Object Oriented Programming, University of Rijeka
- 2011–2018: Programming, University of Rijeka
- 2010–2018: Telecommunication Devices and Networks, University of Rijeka
- 2010–2012: Industrial practice, University of Rijeka
- 2009–2018: Software Engineering, University of Rijeka

MEMBERSHIPS

- 2006–present
member of IEEE
2007–2009 vice-chair of IEEE Technology Management Croatia Section
2007–present member of IEEE Women in Engineering
- 2008–present
member of ACM
since 2012 member of Croatian ACM Section Executive Committee
- 2009–present
member of HU MIPRO
2013–2019 chair of the MIPRO Telecommunications & Information Conference CTI
2018–present chair and founder of the MIPRO Systems and Software Engineering Conference SSE

PUBLICATIONS

Journal papers

- [1] Grbac, Neven; Galinac Grbac, Tihana
Letter to the editor: on the paper “The double Pareto-Lognormal distribution – a new parametric model for size distributions” and its correction
Communications in Statistics – Theory and Methods, 53 (2024), 11; 4207-4209.
<https://doi.org/10.1080/03610926.2023.2174788>
- [2] Kathiravelu, Pradeeban; Fonović, Dalibor; Galinac Grbac, Tihana; Zaiman, Zachary; Veiga, Luís; Gichoya, Judy Wawira; Purkayastha, Saptarshi; Mahmoudi, Babak
The telehealth dilemma – Health-care deserts meet Internet’s remote regions
IEEE Computer (cover feature in the special issue on computing in telemedicine), 56 (Sept. 2023), 9; 39-49.
<https://doi.org/10.1109/MC.2023.3252945>
- [3] Šverko, Mladen; Galinac Grbac, Tihana; Mikuc, Miljenko
SCADA systems with focus on continuous manufacturing and steel industry: a survey on architectures, standards, challenges and industry 5.0
IEEE Access, 10 (Oct. 2022), 109395-109430.
<https://doi.org/10.1109/ACCESS.2022.3211288>
- [4] Tanković, Nikola; Galinac Grbac, Tihana
Run-time interpretation of information system application models in mobile cloud environments
Computer Science and Information Systems, 17 (Jan. 2020), 1; 1-28.
<https://doi.org/10.2298/CSIS180829021T>
- [5] Vranković, Ana; Galinac Grbac, Tihana; Car, Željka
Software structure evolution and relation to subgraph defectiveness
IET Software, 13 (Oct. 2019), 5; 355-367.
<https://doi.org/10.1049/iet-sen.2018.5060>

- [6] Tanković, Nikola; Galinac Grbac, Tihana; Žagar, Mario
ElaClo: A framework for optimizing software application topology in the cloud environment
Expert Systems with Applications, 30 (Dec. 2017); 62–86.
<https://doi.org/10.1016/j.eswa.2017.07.001>
- [7] Mauša, Goran; Galinac Grbac, Tihana
Co-evolutionary multi-population genetic programming for classification in software defect prediction: an empirical case study
Applied Soft Computing, 55 (June 2017); 331–351.
<https://doi.org/10.1016/j.asoc.2017.01.050>
- [8] Peršurić, Željka; Osuga, Junichi; Galinac Grbac, Tihana; Peter-Katalinić, Jasna; Kraljević Pavelić, Sandra
MALDI-SpiralTOF technology for assessment of triacylglycerols in Croatian olive oils
European Journal of Lipid Science and Technology, 119 (Feb. 2017), 2; Art. no. 1500375 (10 p).
<https://doi.org/10.1002/ejlt.201500375>
- [9] Galinac Grbac, Tihana; Runeson, Per; Huljenić, Darko
A quantitative analysis of the unit verification perspective on fault distributions in complex software systems: an operational replication
Software Quality Journal, 24 (Dec. 2016), 4; 967–995.
<https://doi.org/10.1007/s11219-015-9273-7>
- [10] Mauša, Goran; Galinac Grbac, Tihana; Bašić Dalbelo, Bojana
A systematic data collection procedure for software defect prediction
Computer Science and Information Systems, 13 (Jan. 2016), 1; 173–197.
<https://doi.org/10.2298/CSIS141228061M>
- [11] Galinac Grbac, Tihana; Huljenić, Darko
On the probability distribution of faults in complex software systems
Information and Software Technology, 58 (Feb. 2015); 250–258.
<https://doi.org/10.1016/j.infsof.2014.06.014>
- [12] Galinac Grbac, Tihana; Car, Željka; Huljenić, Darko
A quality cost reduction model for large-scale software development
Software Quality Journal, 23 (June 2015), 2; 363–390.
<https://doi.org/10.1007/s11219-014-9240-8>
- [13] Brestovac, Goran; Marin, Dea; Oroz, Tara; Vidović, Aleksandar; Bozóki, Szilárd; Grgurić, Andrej; Mošmondor, Miran; Galinac Grbac, Tihana
Ambient orchestration in assisted environment
Engineering Review, 34 (May 2014), 2; 119–129.
- [14] Galinac Grbac, Tihana; Runeson, Per; Huljenić, Darko
A second replicated quantitative analysis of fault distributions in complex software systems
IEEE Transactions on Software Engineering, 39 (Apr. 2013), 4; 462–476.
<https://doi.org/10.1109/TSE.2012.46>
- [15] Galinac Grbac, Tihana; Car, Željka; Huljenić, Darko
Quantifying value of adding inspection effort early in the development process: a case study
IET Software, 6 (June 2012), 3; 249–259.
<https://doi.org/10.1049/iet-sen.2011.0104>
- [16] Galinac, Tihana
Empirical evaluation of selected best practices in implementation of software process improvement
Information and Software Technology, 51 (Sep. 2009), 9; 1351–1364.
<https://doi.org/10.1016/j.infsof.2009.05.002>
- [17] Galinac, Tihana
Analysis of quality management in modern European software development
Engineering Review, 28 (Dec. 2008), 2; 65–76.

- [18] Galinac, Tihana; Car, Željka
Establishing measurements for software process improvement
International Journal of Software Measurement, 1 (2007); 24–42.
- [19] Galinac Grbac, Tihana; Huljenić, Darko
Defect detection effectiveness and product quality in global software development
Lecture Notes in Computer Science, 6759 (2011); 113–127.
https://doi.org/10.1007/978-3-642-21843-9_11
- [20] Macke, Dirk; Galinac, Tihana
Optimized software process for fault handling in global software development
Lecture Notes in Computer Science, 5007 (2008); 395–406.
https://doi.org/10.1007/978-3-540-79588-9_34
- [21] Galinac, Tihana; Car, Željka
Software verification process improvement proposal using Six Sigma
Lecture Notes in Computer Science, 4589 (2007); 51–64.

Book chapters

- [22] Galinac Grbac, Tihana
The role of functional programming in management and orchestration of virtualized network resources. Part I: System structure for complex systems and design principles
in: Composability, Comprehensibility and Correctness of Working Software, 7th Winter School, Kosice, Slovakia, January 22–26, 2018, Revised Selected Papers
Lecture Notes in Computer Science vol. 11916, Springer, 2023
<https://arxiv.org/pdf/2107.12136.pdf>
- [23] Galinac Grbac, Tihana; Domazet, Nikola
The role of functional programming in management and orchestration of virtualized network resources. Part II: Network evolution and design principles
in: Porkoláb, Zoltán; Zsók, Viktória (eds.)
Composability, Comprehensibility and Correctness of Working Software, 8th Summer School, CEFEP 2019, Budapest, Hungary, June 17–21, 2019, Revised Selected Papers
Lecture Notes in Computer Science vol. 11950, Springer, Oct. 2023. pp. 136–164.
https://doi.org/10.1007/978-3-031-42833-3_5
- [24] Cardellini, Valeria; Galinac Grbac, Tihana; Kassler, Andreas; Kathiravelu, Pradeeban; Lo Presti, Francesco; Marotta, Antonio; Nardelli, Matteo; Veiga, Luís
Integrating SDN and NFV with QoS-aware service composition
in: Ganchev, Ivan; van der Mei, Rob; van den Berg, Hans (eds.)
Autonomous Control for a Reliable Internet of Services
Cham, Switzerland: Springer, 2018. pp. 212–240.
https://doi.org/10.1007/978-3-319-90415-3_9
- [25] Cardellini, Valeria; Galinac Grbac, Tihana; Nardelli, Mateo; Tanković, Nikola; Truong, Hong-Linh
QoS-based elasticity for service chains in distributed edge cloud environments
in: Ganchev, Ivan; van der Mei, Rob; van den Berg, Hans (eds.)
Autonomous Control for a Reliable Internet of Services
Cham, Switzerland: Springer, 2018. pp. 182–211.
https://doi.org/10.1007/978-3-319-90415-3_8
- [26] Arvidsson, Åke; van den Berg, Hans; Burakowski, Wojciech; Galinac Grbac, Tihana et al.
State of the art and research challenges in the area of autonomous control for a reliable Internet of Services
in: Ganchev, Ivan; van der Mei, Rob; van den Berg, Hans (eds.)
Autonomous Control for a Reliable Internet of Services
Cham, Switzerland: Springer, 2018. pp. 1–22.
https://doi.org/10.1007/978-3-319-90415-3_1

Conference papers

- [27] Šverko, Mladen; Galinac Grbac, Tihana
Automated HMI design as a custom feature in industrial SCADA systems
in: Longo, Francesco; Shen, Weiming; Padovano, Antonio (eds.)
Proceedings of 5th International Conference on Industry 4.0 and Smart Manufacturing, ISM 2023
Iscte – University Institute of Lisbon, Portugal, November 22–24, 2023
Procedia Computer Science, vol. 232, Elsevier, 2024. pp. 1789–1798
- [28] Šverko, Mladen; Galinac Grbac, Tihana
On data preprocessing in data mining to improve human-machine interface data visualization
in: Budimac, Zoran; Vranić, Valentino; Lang, Ján (eds.)
Proceedings of 10th Workshop on Software Quality Analysis, Monitoring, Improvement, and Applications, SQAMIA 2023
Bratislava, Slovakia, September 10–13, 2023
Aachen: CEUR Workshop Proceedings, vol. 3588, 2023. pp. 150-161.
- [29] Puh, Emili; Galinac Grbac, Tihana; Grbac, Neven
Preliminary study of higher dimensional software structures
in: Budimac, Zoran; Vranić, Valentino; Lang, Ján (eds.)
Proceedings of 10th Workshop on Software Quality Analysis, Monitoring, Improvement, and Applications, SQAMIA 2023
Bratislava, Slovakia, September 10–13, 2023
Aachen: CEUR Workshop Proceedings, vol. 3588, 2023. pp. 13-25.
- [30] Šverko, Mladen; Galinac Grbac, Tihana; Huljenić, Darko
Performance optimization in transition toward open industrial control systems
Proceedings of 31th International Conference on Software, Telecommunications and Computer Systems, SoftCOM 2023
Split, Croatia, September 21–23, 2023
Split: Fakultet elektrotehnike, strojarstva i brodogradnje Sveučilišta u Splitu, 2023. 6 pages
<https://doi.org/10.23919/SoftCOM58365.2023.10271622>
- [31] Franjić, Mihaela; Galinac Grbac, Tihana; Brumen, Boštjan
User experience of Croatian national & nature parks' website – a comparison
in: Stephanidis, Constantine; Antona, Margherita; Ntoa, Stavroula; Salvendy, Gavriel (eds.)
Proceedings of 25th International Conference on Human-Computer Interaction, HCII 2023, Part I
Copenhagen, Denmark, July 23–28, 2023
Communications in Computer and Information Science (CCIS), vol. 1832, Springer, Cham, 2023.
pp. 561-570.
https://doi.org/10.1007/978-3-031-35989-7_71
- [32] Fonović, Dalibor; Galinac Grbac, Tihana
A quantitative study of C/C++ FOSS software buildability
in: Budimac, Zoran (ed.)
Proceedings of the 9th Workshop on Software Quality Analysis, Monitoring, Improvement, and Applications, SQAMIA 2022
Novi Sad, Serbia, September 11–14, 2022
Aachen: CEUR Workshop Proceedings, vol. 3237, 2022. pp. 3:1-3:10.
- [33] Galinac Grbac, Tihana; Sokolović, Dragan; Kovač, Jurica; Etinger, Darko; Fonović, Dalibor; Kukuljan, Dario; Simić, Srđan Danijel; Tanković, Nikola
Modeling complex software systems: a case study on sustainable water supply maintenance
in: Budimac, Zoran (ed.)
Proceedings of the 9th Workshop on Software Quality Analysis, Monitoring, Improvement, and Applications, SQAMIA 2022
Novi Sad, Serbia, September 11–14, 2022
Aachen: CEUR Workshop Proceedings, vol. 3237, 2022. pp. 5:1-5:12.
- [34] Galinac Grbac, Tihana; Grbac, Neven
Algorithms for sustainable system topologies

- in: Koopman, Pieter; Lubbers, Mart; Fernandes, João Paulo (eds.)
 SusTrainable: Promoting Sustainability as a Fundamental Driver in Software Development Training and Education
 Teacher Training, November 1–5, 2021, Nijmegen, The Netherlands
 Nijmegen, The Netherlands: arXiv, 2022. pp. 64–72.
<https://doi.org/10.48550/arxiv.2204.13993>
- [35] Šverko, Mladen; Galinac Grbac, Tihana
 Complex systems – network component security of SCADA systems
 in: Koričić, Marko; Skala, Karolj; et al. (eds.)
 Proceedings of the 44th International Convention on Information, Communication and Electronic Technology, MIPRO 2021
 Opatija, Croatia, September 27 – October 1, 2021
 Rijeka: MIPRO HU, 2021. pp. 1630–1635,
<https://doi.org/10.23919/MIPRO52101.2021.9596701>
- [36] Samardžić, Marko; Šajina, Romeo; Tanković, Nikola; Galinac Grbac, Tihana
 Microservice performance degradation correlation
 in: Koričić, Marko; Skala, Karolj; et al. (eds.)
 Proceedings of the 43rd International Convention on Information, Communication and Electronic Technology, MIPRO 2020
 Opatija, Croatia, September 28 – October 2, 2020
 Rijeka: MIPRO HU, 2021. pp. 1623–1626.
- [37] Mauša, Goran; Galinac Grbac, Tihana; Brezočnik, Lucija; Podgorelec Vili; Heričko, Marjan
 Software metrics as identifiers of defect occurrence severity
 in: Budimac, Zoran; Koteska, Bojana (eds.)
 Proceedings of the 8th Workshop on Software Quality Analysis, Monitoring, Improvement, and Applications, SQAMIA 2019
 Ohrid, North Macedonia, September 22–25, 2019
 Aachen: CEUR Workshop Proceedings, vol. 2508, 2019. pp. 1–9.
- [38] Pita Costa, João; Galinac Grbac, Tihana
 A methodology to evaluate the evolution of networks using topological data analysis
 in: Mladenović, Dunja ; Grobelnik, Marko (eds.)
 Proceedings of the 20th International Multiconference INFORMATION SOCIETY – IS 2017 Volume C
 Ljubljana, Slovenia: Institut “Jožef Stefan”, Ljubljana, 2018. pp. 43–47.
- [39] Mohović, Marino; Mauša, Goran; Galinac Grbac, Tihana
 Using threshold derivation of software metrics for building classifiers in defect prediction
 in: Budimac, Zoran (ed.)
 Proceedings of the 7th Workshop on Software Quality Analysis, Monitoring, Improvement, and Applications, SQAMIA 2018
 Novi Sad, Serbia, August 27–30, 2018
 Novi Sad, Serbia: University of Novi Sad, Faculty of Sciences, Department of Mathematics and informatics, 2018. pp. 11:1–11:9.
- [40] Miletić, Matija; Vukušić, Monika; Mauša, Goran; Galinac Grbac, Tihana
 Cross-release code churn impact on effort-aware software defect prediction
 in: Skala, Karolj; Koričić, Marko; et al. (eds.)
 Proceedings of the 41st International Convention on Information, Communication and Electronic Technology, MIPRO 2018
 Opatija, Croatia, May 21–25, 2018.
 Rijeka, Croatia: HU MIPRO, 2018. pp. 1460–1466.
<https://doi.org/10.23919/MIPRO.2018.8400263>
- [41] Grbac Babić, Sanja; Galinac Grbac, Tihana; Lerga, Jonatan
 Community structure of a complex software-system in evolution

- in: Skala, Karolj; Koričić, Marko; et al. (eds.)
 Proceedings of the 41st International Convention on Information and Communication Technology,
 Electronics and Microelectronics, MIPRO 2018
 Opatija, Croatia, May 21–25, 2018.
 Rijeka, Croatia: HU MIPRO, 2018. pp. 1467–1471.
<https://doi.org/10.23919/MIPRO.2018.8400264>
- [42] Mauša, Goran; Galinac Grbac, Tihana
 The stability of threshold values for software metrics in software defect prediction
 in: Ouhammou, Yassine; Ivanović, Mirjana; Abelló, Alberto; Bellatreche, Ladjel (eds.)
 Proceedings of 7th International Conference on Model and Data Engineering, MEDI 2017
 Barcelona, Spain, October 4–6, 2017
 Lecture Notes in Computer Science, vol 10563
 Cham, Switzerland: Springer 2017. pp. 81–95.
- [43] Miletić, Matija; Vukušić, Monika; Mauša, Goran; Galinac Grbac, Tihana
 Relationship between design and defects for software in evolution
 in: Budimac, Zoran (ed.)
 Proceedings of the 6th Workshop on Software Quality Analysis, Monitoring, Improvement, and
 Applications, SQAMIA 2017
 Belgrade, Serbia, September 11–13, 2017
 Novi Sad, Serbia: University of Novi Sad, 2017. pp. 10:1–10:10.
- [44] Grbac Babić, Sanja; Galinac Grbac, Tihana
 Network analysis of evolving software-systems
 in: Begušić, Dinko; Rožić, Nikola; Radić, Joško; Šarić, Matko (eds.)
 Proceedings of the 25th Conference on Software, Telecommunications and Computer Networks, Soft-
 COM 2017
 Split, Croatia, September 21–23, 2017
 Split, Croatia: University of Split, 2017. pp. 6–9.
- [45] Galinac Grbac, Tihana; Runeson, Per; Huljenić, Darko
 Unit verification effects on reused components in sequential project releases
 in: Felderer, Michael; Holmström Olsson, Helena; Skavhaug, Amund (eds.)
 Proceedings of the 43rd Euromicro Conference on Software Engineering and Advanced Applications,
 SEAA 2017
 Vienna, Austria, August 30 – September 1 2017
 USA: IEEE Conference Publishing Services (CPS), 2017. pp. 74–82.
- [46] Galinac Grbac, Tihana; Domazet, Nikola
 On the applications of Dijkstra’s shortest path algorithm in software defined networks
 in: Ivanović, Mirjana; Bădică, Costin; Dix, Jürgen; Jovanović, Zoran; Malgeri, Michele; Savić, Miloš
 (eds.)
 Proceedings of the 11th International Symposium on Intelligent Distributed Computing, IDC XI
 2017
 Beograd, Serbia, October 11–13, 2017
 Studies in Computational Intelligence (SCI), volume 737
 Cham, Switzerland: Springer, 2017. pp. 39–45.
- [47] Pita Costa, João; Galinac Grbac, Tihana
 The topological data analysis of time series failure data in software evolution
 in: Binder, Walter; Cortellessa, Vittorio (eds.)
 Proceedings of the 8th ACM/SPEC on International Conference on Performance Engineering Com-
 panion, ICPE Companion 2017
 L’Aquila, Italy, April 22–26, 2017
 New York, NY, USA: ACM, 2017. pp. 25–30.
- [48] Galinac Grbac, Tihana; Mauša, Goran
 On the distribution of software faults in evolution of complex systems

- in: Drira, Khalil; Oquendo, Flavio; Ali Babar, Muhammad; Legay, Axel (eds.)
 Proceedings of the International Colloquium on Software-intensive Systems-of-Systems at 10th European Conference on Software Architecture, SiSoS@ECSA 2016
 Copenhagen, Denmark, November 29, 2016
 New York, USA: ACM, 2016. pp. 2:1–2:7
<https://doi.org/10.1145/3175731.3176181>
- [49] Hržić, Franko; Poljančič, Domagoj; Galinac Grbac, Tihana
 Secure operations as congestion control mechanism within OpenStack based cloud laboratory
 in: Žagar, Drago; Martinović, Goran; Rimac-Drlje, Snježana (eds.)
 International Conference on Smart Systems and Technologies, SST 2016
 Osijek, Croatia, October 12–14, 2016
 Osijek, Croatia: Faculty of Electrical Engineering, Computer Science and Information Technology, 2016. pp. 129–135.
- [50] Mauša, Goran; Galinac Grbac, Tihana
 Assessing the impact of untraceable bugs on the quality of software defect prediction datasets
 in: Budimac, Zoran; Horváth, Zoltán; Kozsik, Tamás (eds.)
 Proceedings of the 5th Workshop on Software Quality Analysis, Monitoring, Improvement, and Applications, SQAMIA 2016
 Budapest, Hungary, August 29–31, 2016
 Novi Sad, Serbia: University of Novi Sad, 2016. pp. 47–56.
- [51] Galinac Grbac, Tihana; Runeson, Per
 Plug-in software engineering case studies
 in: Jedlitschka, Andreas; Bener, Ayse; Duarte, Carlos Henrique; Ghaisas, Smita (eds.)
 Proceedings of the 4th International Workshop on Conducting Empirical Studies in Industry, CESI 2016
 within the 38th International Conference on Software Engineering, ICSE 2016
 Austin, TX, USA, May 17, 2016
 New York, NY, USA: ACM, 2016. pp. 21–24.
- [52] Kathiravelu, Pradeeban; Galinac Grbac, Tihana; Veiga, Luís
 Building blocks of Mayan: Componentizing the eScience workflows through software-defined service composition
 in: Reiff-Marganiec, Stephan (ed.)
 23rd IEEE International Conference on Web Services, ICWS 2016
 San Francisco, CA, USA, June 27 – July 02, 2016
 USA: IEEE, 2016. pp. 372–379. <https://doi.org/10.1109/ICWS.2016.55>
- [53] Rubinić, Emil; Mauša, Goran; Galinac Grbac, Tihana
 Software defect classification with a variant of NSGA-II and simple voting strategies
 in: Baros, Márcio; Labiche, Yvan (eds.)
 Proceedings of the 7th International Symposium on Search-Based Software Engineering, SSBSE 2015
 Lecture Notes in Computer Science, LNCS, vol. 9275
 Bergamo, Italy, September 5–7, 2015
 Cham, Switzerland: Springer, 2015. pp. 347–353.
- [54] Tanković, Nikola; Bogunović, Nikola; Galinac Grbac, Tihana; Žagar, Mario
 Analyzing incoming workload in cloud business services
 in: Rožić, Nikola; Begušić, Dinko; Šarić, Matko; Šolić, Petar (eds.)
 Proceedings of the 23rd International Conference on Software, Telecommunications and Computer Networks, SoftCOM 2015
 Split – Bol (Island of Brač), Croatia, September 16–18, 2015
 USA: IEEE, 2015. pp. 300–304.
<https://doi.org/10.1109/SOFTCOM.2015.7314068>
- [55] Grbac Babić, Sanja; Galinac Grbac, Tihana
 Graph-based analysis and metrics of evolving open-source software systems

- in: Heričko, Marjan (ed.)
 Proceedings of the 18th International Multiconference INFORMATION SOCIETY – IS 2015 Volume D
 Ljubljana, Slovenia, October 12–13, 2015
 Ljubljana, Slovenia: Institut “Jožef Stefan”, 2015. pp. 9–13.
- [56] Tanković, Nikola; Galinac Grbac, Tihana
 AGM: A DSL for mobile cloud computing based on directed graph
 in: Budimac, Zoran (ed.)
 Proceedings of the 5th Symposium on Computer Languages, Implementations and Tools, SCLIT 2015
 AIP Conference Proceedings, vol. 1738
 Rhodes, Greece, September 23–29, 2015
 Melville, NY, USA: AIP Publishing LLC, 2016. Art. no. 240008 (4 p).
<https://doi.org/10.1063/1.4952027>
- [57] Galinac Grbac, Tihana; Car, Željka; Vuković, Marin
 Software engineering education on requirements and architecture modeling
 in: Crnković, Ivica; Galster, Matthias (eds.)
 Proceedings of the 2015 European Conference on Software Architecture – Workshops, ECSAW 2015
 Dubrovnik – Cavtat, Croatia, September 7–11, 2015
 New York, NY, USA: ACM, 2015. pp. 36:1–44:8.
<https://doi.org/10.1145/2797433.2797471>
- [58] Galinac Grbac, Tihana; Caba, Cosmin; Soler, José
 Software defined networking demands on software technologies
 in: Biljanović, Petar et al. (eds.)
 Proceedings of 38th International Convention on Information and Communication Technology, Electronics and Microelectronics, MIPRO 2015
 Opatija, Croatia, May, 25–29, 2015
 HU MIPRO: Rijeka, Croatia, 2015. pp. 507–512.
- [59] Mauša, Goran; Bogunović, Nikola; Galinac Grbac, Tihana; Dalbelo Bašić, Bojana
 Rotation forest in software defect prediction
 in: Budimac, Zoran; Heričko, Marjan (eds.)
 Proceedings of the 4th Workshop on Software Quality Analysis, Monitoring, Improvement, and Applications, SQAMIA 2015
 Maribor, Slovenija, June 8–10, 2015
 Aachen: CEUR Workshop Proceedings, vol. 1375, 2019. pp. 35–43.
- [60] Spahić, Damir; Mauša, Goran; Kraljević Pavelić, Sandra; Galinac Grbac, Tihana
 Data storage and analysis system for conducting biotechnological experiments
 in: Biljanović, Petar et al. (eds.)
 Proceedings of 38th International Convention on Information and Communication Technology, Electronics and Microelectronics, MIPRO 2015
 Opatija, Croatia, May, 25–29, 2015
 HU MIPRO: Rijeka, Croatia, 2015. pp. 528–536.
- [61] Mauša, Goran; Galinac Grbac, Tihana; Dalbelo Bašić, Bojana
 Data collection for software defect prediction – an exploratory case study of open source software projects
 in: Biljanović, Petar et al. (eds.)
 Proceedings of 38th International Convention on Information and Communication Technology, Electronics and Microelectronics, MIPRO 2015
 Opatija, Croatia, May, 25–29, 2015
 HU MIPRO: Rijeka, Croatia, 2015. pp. 513–519.
- [62] Tanković, Nikola; Galinac Grbac, Tihana; Truong, Hong-Linh; Dustdar, Schahram
 Transforming vertical web applications into elastic cloud applications

- in: Jensen, Christian S.; Parashar, Manish; Yeom, Heonyoung
 Proceedings of the 2015 IEEE International Conference on Cloud Engineering, IC2E 2015
 Tempe, AZ, USA, March 9–13, 2015
 USA: IEEE Computer Society Conference Publishing Services (CPS), 2015. pp. 135–144.
<https://doi.org/10.1109/IC2E.2015.15>
- [63] Mauša, Goran; Perković, Paolo; Galinac Grbac, Tihana; Štajduhar, Ivan
 Techniques for bug-code linking
 in: Budimac, Zoran; Galinac Grbac, Tihana (eds.)
 Proceedings of the 3rd Workshop on Software Quality Analysis, Monitoring, Improvement, and Applications, SQAMIA 2014
 Lovran, Hrvatska, September 19–22, 2014
 Aachen: CEUR Workshop Proceedings, vol. 1266, 2014. pp. 47–55.
- [64] Petrić, Jean; Galinac Grbac, Tihana; Dubravac, Mario
 Processing and data collection of program structures in open source repositories
 in: Budimac, Zoran; Galinac Grbac, Tihana (eds.)
 Proceedings of the 3rd Workshop on Software Quality Analysis, Monitoring, Improvement, and Applications, SQAMIA 2014
 Lovran, Croatia, September 19–22, 2014
 Aachen: CEUR Workshop Proceedings, vol. 1266, 2014. pp. 57–66.
- [65] Petrić, Jean; Galinac Grbac, Tihana
 Software structure evolution and relation to system defectiveness
 in: Shepperd, Martin; Hall, Tracy; Myrtveit, Ingunn
 Proceedings of the 18th International Conference on Evaluation and Assessment in Software Engineering, EASE 2014
 London, England, UK, May 13–14, 2014
 New York, NY, USA: ACM, 2014. pp. 34:1–34:10.
<https://doi.org/10.1145/2601248.2601287>
- [66] Tanković, Nikola; Galinac Grbac, Tihana; Žagar, Mario
 Experiences from building an EUD business portal
 in: Biljanović, Petar et al. (eds.)
 Proceedings of 37th International Convention on Information and Communication Technology, Electronics and Microelectronics, MIPRO 2014
 Opatija, Croatia, May, 26–30, 2014
 HU MIPRO: Rijeka, Croatia, 2014. pp. 635–640.
<https://doi.org/10.1109/MIPRO.2014.6859629>
- [67] Galinac Grbac, Tihana; Mauša, Goran; Dalbelo Bašić, Bojana
 Stability of software defect prediction in relation to levels of data imbalance
 in: Budimac, Zoran (ed.)
 Proceedings of the 2nd Workshop on Software Quality Analysis, Monitoring, Improvement, and Applications, SQAMIA 2013
 Novi Sad, Serbia, September 15–17, 2013
 Aachen: CEUR Workshop Proceedings, vol. 1053, 2013. pp. 1–10.
- [68] Mauša, Goran; Galinac Grbac, Tihana; Dalbelo Bašić, Bojana; Pavčević, Mario-Osvin
 Hill climbing and simulated annealing in large scale next release problem
 in: Kuzle, Igor; Capuder, Tomislav; Pandžić, Hrvoje (eds.)
 Proceedings of IEEE EuroCon 2013
 Zagreb, Croatia, July, 1–4, 2013
 USA: IEEE, 2013. pp. 452–459.
- [69] Mauša, Goran; Galinac Grbac, Tihana; Dalbelo Bašić, Bojana
 Multivariate logistic regression prediction of fault-proneness in software modules
 in: Biljanović, Petar et al. (eds.)
 Proceedings of the 35th International Convention on Information and Communication Technology,

- Electronics and Microelectronics, MIPRO 2012
Opatija, Croatia, May 21–25, 2012
Rijeka, Croatia: HU MIPRO, 2012. str. 813–818.
- [70] Mauša, Goran; Galinac Grbac, Tihana; Dalbelo Bašić, Bojana
Overview of search-based optimization algorithms used in software engineering
in: Car, Zlatan; Kudláček, Jan; Pepelnjak, Tomaž (eds.)
Proceedings of International Conference on Innovative Technologies, IN-TECH 2012
Rijeka, Croatia, September 26–29, 2012
Rijeka, Croatia: University of Rijeka, 2012. pp. 409–412.
- [71] Grgurina, Robi; Brestovac, Goran; Galinac Grbac, Tihana
Development environment for Android application development: an experience report
in: Biljanović, Petar et al. (eds.)
Proceedings of the 34th International Convention on Information and Communication Technology, Electronics and Microelectronics, MIPRO 2011
Opatija, Croatia, May 23–27, 2011
Rijeka, Croatia: HU MIPRO, 2011. pp. 420–425.
- [72] Ivček, Mario; Galinac, Tihana
Adapting Agile practices in globally distributed large scale software development
in: Biljanović, Petar et al. (eds.)
Proceedings of the 32nd International Convention on Information and Communication Technology, Electronics and Microelectronics, MIPRO 2009
Opatija, Croatia, May 25–29, 2009
Rijeka, Croatia: HU MIPRO, 2009. pp. 139–144.
- [73] Ivček, Mario; Galinac, Tihana
Aspects of quality assurance in global software development organization
in: Biljanović, Petar et al. (eds.)
Proceedings of the 31st International Convention on Information and Communication Technology, Electronics and Microelectronics, MIPRO 2008
Opatija, Croatia, May 26–30, 2008
Rijeka, Croatia: HU MIPRO, 2008. pp. 150–155.
- [74] Galinac, Tihana
Focused competence planning for large scale software development
in: Messnarz, Richard; Goericke, Stephan; Koinig, Sonja (eds.)
Industrial Proceedings of the European Software Process Improvement, EuroSPI 2007
Potsdam, Germany, September 26–28, 2007
Potsdam, Germany: ASQF Publication Series about SW Quality, 2007. pp. 8.1–8.10.
- [75] Galinac, Tihana; Golubić, Stjepan; Hudek, Vlasta
Benchmarking of ICT conferences in Croatia
in: Biljanović, Petar et al. (eds.)
Proceedings of the 30th International Convention on Information and Communication Technology, Electronics and Microelectronics, MIPRO 2007
Opatija, Croatia, May 21–25, 2007
Rijeka, Croatia: HU MIPRO, 2007. pp. 25–30.
- [76] Golubić, Stjepan; Galinac, Tihana; Car, Željka
Synergy between business and process improvement models
in: Márquez-Segura, Enrique; Rodríguez, Juan Antonio (eds.)
Proceedings of the 13th IEEE Mediterranean Electrotechnical Conference, MELECON 2006
Malaga, Spain, May 16–19, 2006
USA: IEEE, 2006. pp. 773–776.
<https://doi.org/10.1109/MELCON.2006.1653213>
- [77] Galinac, Tihana
Six Sigma methodology for software development process improvement

- in: Biljanović, Petar et al. (eds.)
 Proceedings of the 29th International Convention on Information and Communication Technology,
 Electronics and Microelectronics, MIPRO 2006
 Opatija, Croatia, May 22–26, 2006
 Rijeka, Croatia: HU MIPRO, 2006. pp. 128–133.
- [78] Galinac, Tihana; Golubić, Stjepan
 Software reliability as one of the key attribute of quality model
 in: Biljanović, Petar et al. (eds.)
 Proceedings of the 28th International Convention on Information and Communication Technology,
 Electronics and Microelectronics, MIPRO 2005
 Opatija, Croatia, May 30 – June 3, 2005
 Rijeka, Croatia: HU MIPRO, 2005. pp. 153–158.
- [79] Galinac, Tihana; Golubić, Stjepan
 Project overlapping and its influence on the product quality
 in: Ježić, Gordan ; Gledec, Gordan (eds.)
 Proceedings of the 8th International Conference on Telecommunications, ConTEL 2005
 Zagreb, Croatia, June 15–17, 2005
 Zagreb, Croatia: University of Zagreb, 2005. pp. 655–662.
- [80] Huljenić, Darko; Galinac, Tihana
 Influence on basic call set-up by integration of packet and circuit switched core network
 in: Biljanović, Petar et al. (eds.)
 Proceedings of the 25th International Convention on Information and Communication Technology,
 Electronics and Microelectronics, MIPRO 2002
 Opatija, Croatia, May 20–24, 2002
 Rijeka, Croatia: HU MIPRO, 2002. pp. 180–185.

Conference abstracts

- [81] Grbac Babić, Sanja; Galinac Grbac, Tihana
 Community detection for software-systems in evolution
 in: Kvaternik, Sandra; Torbarina, Fran; Vitali, Natalija; Čanadija, Marko; Travaš, Vanja; Vukelić,
 Goran (eds.)
 Book of Extended Abstracts – My First Conference 2017
 Rijeka, Croatia, September 28, 2017
 Rijeka, Croatia: University of Rijeka, 2017. pp. 18–19.
- [82] Mauša, Goran; Kalafatović, Daniela; Giralt, Ernest; Galinac Grbac, Tihana
 Decision support system for combinatorial peptide libraries
 in: Abstract book of the 1st European PhD and Postdoc Symposium of the European Academy for
 Biomedical Science, ENABLE 2017
 Barcelona, Spain, November 15–17, 2017
 p. 119
- [83] Grbac Babić, Sanja; Galinac Grbac, Tihana
 Analysis of evolving software-systems as complex networks
 in: Dobrijević, Ognjen; Džanko, Matija (eds.)
 PhD Forum – Book of Abstract of the 14th International Conference on Telecommunications, Con-
 TEL 2017
 Zagreb, Croatia, June 28–30, 2017
 Zagreb, Croatia: University of Zagreb, 2017. pp. 7–8.
- [84] Mauša, Goran; Dalbelo Bašić, Bojana; Galinac Grbac, Tihana
 Critical level of data imbalance for machine learning algorithms in software defect prediction
 in: Lončarić, Sven; Šmuc, Tomislav (eds.)
 Proceedings of the 1st International Workshop on Data Science, IWDS 2016
 Zagreb, Croatia, November 30, 2016

- Zagreb, Croatia: Centre of Research Excellence for Data Science and Cooperative Systems, 2016. p. 36.
- [85] Peršurić, Željka; Osuga, Junichi; Peter Katalinić, Jasna; Galinac Grbac, Tihana; Kraljević Pavelić, Sandra
 Analysis of triacylglycerols in olive oil as markers for geographical and vegetable oil certification by MALDI-TOF MS
 in: Book of Abstracts of the 8th Summer Course for Mass Spectrometry in Biotechnology and Medicine, MSBM 2014
 Dubrovnik, Croatia, July 6–12, 2014, p. 62.
- [86] Mauša, Goran; Galinac Grbac, Tihana; Dalbelo Bašić, Bojana
 Software defect prediction with bug-code analyzer – a data collection tool demo
 in: Rožić, Nikola; Begušić, Dinko (eds.)
 Proceedings of the 22nd International Conference on Software, Telecommunications and Computer Networks, SoftCOM 2014
 Split, Croatia, September 17–19, 2014
 Split, Croatia: University of Split, 2014. pp. 425–426.
<https://doi.org/10.1109/SOFTCOM.2014.7039122>