

CURRICULUM VITAE

PERSONAL DATA

Name: **Adriana Lipovac**
Birth date: September 13th, 1989
Telephone: +385 99 7653378
E-mail: adriana.lipovac@unidu.com

PROFESSIONAL EXPERIENCE

Associate Professor

Department of Electrical Engineering and Computing
Institution: University of Dubrovnik, Croatia.
Starting date: November 2019

Assistant Professor

Department of Electrical Engineering and Computing
Institution: University of Dubrovnik, Croatia.
Starting date - Finish date: January 2016 – October 2019

Teaching Assistant

Department of Electrical Engineering and Computing
Institution: University of Dubrovnik, Croatia.
Starting date - Finish date: October 2012 – December 2015

EDUCATION

Ph. D.

Department of Wireless Communications
Institution: Faculty of Electrical Engineering and Computing, University of Zagreb, Croatia.
Thesis: Error Floor Prediction in Transmission of Orthogonal Frequency Division Multiplex Signal over Time – Dispersive Channel
Conclusion date: October 2014

Ms. C.

Study: Marine Electrical Engineering and Communication Technologies
Department of Electrical Engineering and Computing
Institution: University of Dubrovnik, Croatia
Conclusion date: July 2012

Ms. C.

Study: Business Computing
Department of Electrical Engineering and Computing
Institution: University of Dubrovnik, Croatia
Conclusion date: July 2012

Bs. C.

Department of Telecommunications
Institution: Faculty of Electrical Engineering, University of Sarajevo, Bosnia and Herzegovina
Conclusion date: July 2010

GENERAL RESEARCH INTERESTS

Wireless Networks, Mobile Communications, Optical Networks, Communication Theory, Information Theory

JOURNAL PUBLICATIONS

1. Mihaljević, Ante; **Lipovac, Adriana**; Lipovac, Vladimir; Mušović, Jasmin
Practical BER-Based Estimation of Residual OFDM CFO by Reducing Noise Margin // Wireless communications and mobile computing, 2020 (2020), Article ID 8881436; 1-5
2. **Lipovac, Adriana**; Lipovac, Vladimir; Modlic, Borivoj
Efficient Estimation of CFO-Affected OFDM BER Floor in Small Cells with Resource-Limited IoT End-Points // Sensors, 20 (2020), 20(13), 3747; 1-16
3. **Lipovac, Adriana**
Simple OFDM Error Floor Prediction with Sub- optimal Time Sampling // Wireless personal communications, 1 (2020), 1; 1-14
4. Hamza, Mirza; **Lipovac, Adriana**; Lipovac, Vladimir
Residual Block Error Rate Prediction for IR HARQ Protocol // Tehnički vjesnik : znanstveno-stručni časopis tehničkih fakulteta Sveučilišta u Osijeku, 27 (2020), 4; 1071-1076
5. Isak-Zatega, Sibila; **Lipovac, Adriana**; Lipovac, Vladimir
Logistic regression based in-service assessment of mobile web browsing service quality acceptability // EURASIP journal on wireless communications and networking, (2020) 2020:96 (2020), 96; 1-21

6. **Lipovac, Adriana;** Škaljo Edvin; Lipovac, Vladimir; Njemčević Pamela
Practical Prediction of CFO-Made OFDM Symbol Distortion // Automatic control and computer sciences, 53 (2019), 4; 351-363
7. **Lipovac, Adriana;** Mihaljević, Ante
In-Service BER Based Estimation of OFDM PAPR and CFO-induced Peak Phase Deviation // Journal of communications software and systems, 15 (2019), 1; 44-51
8. Njemčević Pamela; **Lipovac, Adriana;** Lipovac, Vladimir.
Recommendations for Shadow Fading Estimation from Received Composite Signal Samples // Wireless networks. (2018), online; 1-11
9. **Lipovac, Adriana;** Lipovac, Vladimir; Njemčević Pamela.
Suppressing the OFDM CFO-Caused Constellation Symbol Phase Deviation by PAPR Reduction // Wireless communications and mobile computing. 2018 (2018), ID 3497694; 1-8
10. Njemčević, Pamela; **Lipovac, Adriana;** Lipovac, Vladimir.
Improved Model for Estimation of Spatial Averaging Path Length. // Wireless communications and mobile computing. 2018 (2018), Article ID 4704218; 1-13
11. **Lipovac, Adriana;** Lipovac, Vladimir; Hamza, Mirza.
Verification of OFDM Error Floor Prediction in Time-Dispersive LTE FDD DL Channel // Wireless personal communications. 93 (2017), 3; 853-875
12. **Lipovac, Adriana;** Lipovac, Vladimir; Modlic, Borivoj.
Modeling OFDM Irreducible BER with Impact of CP Length and CFO in Multipath Channel with Small Delay Dispersion // Wireless communications and mobile computing. 16 (2016), 9; 1065-1077
13. Štajduhar, Andrija, **Lipovac, Adriana.**
On Fluid Dynamics of Freshwater and Seawater in Marine Systems. // Naše more: znanstveni časopis za more i pomorstvo. 63 (2016), 1; 1-4
14. **Lipovac, Adriana.**
OFDM Error Floor Prediction in a Small-Time- Dispersion Channel // Wireless personal communications. 75 (2014), 1; 645-663
15. **Lipovac, Adriana;** Obradović, Ines; Zakarija, Ivona.
Ethernet Transport Performance and Triple-Play QoS in Large Ship Environment // Our Sea, International Journal of Maritime Science & Technology, 61 (2014), 5-6; 124-131

PLENARY LECTURES

1. **Lipovac, Adriana**

Practical Enhancement of Fiber Installation and Maintenance Test Tools - Example of Extending OTDR Distance Range by Optical Pre-amplifier // Proc. European Lasers, Photonics and Optics Technologies Summit - ELOS 2020, Paris, 2020. str. 1-64

2. **Lipovac, Adriana**

Estimating and Concurrent Suppressing OFDM Major Impairments: Residual CFO and High PAPR // Proceeding of the 8th International conference on Fiber Optics in Access Networks - FOAN 2019, Sarajevo, Bosna i Hercegovina, 2019. str. 1-7

CONFERENCE PUBLICATIONS

1. Mušović, Jasmin; Lipovac, Vladimir; **Lipovac, Adriana**

Spectral and Network Deployment Efficiency Analysis in a k-Tier Network // Proc. 27th International Conference on Software, Telecommunications and Computer Networks (SoftCOM 2019), Split, 2019. str. 1-5

2. **Lipovac, Adriana**; Bjelopera, Anamaria, Grbavac, Ivan; Obradović, Ines; Sjekavica, Tomo

Practical Cross-Layer Testing of HARQ-Induced Delay Variation on IP/RTP QoS and VoLTE QoE // Proc. European Conference on Networks and Communications - EuCNC 2019, Valencia, Spain / Cardona, Narcis (ur.), Valencia, Španjolska, 2019. str. 1-6

3. **Lipovac, Adriana**; Škaljo, Edvin; Lipovac, Vladimir; Njemčević, Pamela

BER-Based Estimation of OFDM CFO-Caused Symbol Phase Deviation // Proceedings of the International Scientific Conference on Advances in Wireless and Optical Communications RTUWO 2018, Riga, Latvija, 2018. str. 1-5

4. **Lipovac, Adriana**; Mihaljević, Ante

BER Based OFDM PAPR Estimation // Proceedings of the 26th International Conference on Software, Telecommunications and Computer Networks (SoftCOM) Supetar-Split, Croatia, 2018. str. 1-6

5. **Lipovac, Adriana**; Isak-Zatega, Sibila; Njemčević, Pamela.

In-service Testing OFDM Error Floor by Constellation Analysis // Proceedings of the 25th International Conference on Software, Telecommunications and Computer Networks (SoftCOM 2017), Split, Croatia, 2017

6. **Lipovac, Adriana**; Modlic, Borivoj; Grgić, Mislav.
OFDM Error Floor Based EVM Estimation // Proceedings of the 24rd International Conference on Software, Telecommunications and Computer Networks (SoftCOM 2016), Split, Croatia, 2016
7. Hamza, Mirza; Lipovac, Vladimir; **Lipovac, Adriana**.
BER-Based BLER Prediction for LTE FDD DL Channel with Small Delay Dispersion // Proceedings of the 11th International Wireless Communications and Mobile Computing Conference - 2015 (IWCMC 2015), Dubrovnik, Croatia, 2015
8. **Lipovac, Adriana**.
Qualifying CP Length for LTE FDD Downlink Channel with Small Delay Dispersion // Proceedings of the 23rd International Conference on Software, Telecommunications and Computer Networks (SoftCOM 2015), Brač, Croatia, 2015
9. **Lipovac, Adriana**; Lipovac, Vladimir; Modlic, Borivoj.
Optimal Sample Delay for OFDM Error Floor over Small-Delay Dispersion Channel // Proceedings of the World Wireless Symposium WTS 2015, Dubrovnik, Croatia, 2015
10. **Lipovac, Adriana**; Lipovac, Vladimir; Hamza, Mirza.
Verification of OFDM Error Floor in Time- Dispersive LTE FDD DL Channel // Proceedings of the Global Wireless Summit 2014 - Wireless VITAE 2014, Aalborg, Denmark, 2014
11. **Lipovac, Adriana**.
Modeling OFDM Error Floor in a Small-Time- Dispersion Channel // Proceedings of the 11th International Conference on Applied Electromagnetics, Wireless and Optical Communications (ELECTROSCIENCE '13), Dubrovnik, Croatia, 2013
12. **Lipovac, Adriana**; Bjelopera, Anamaria.
LTE in Classroom: Turning Math into Live Signal Simulation and Analysis // Proceedings of the 55th International Symposium ELMAR-2013, Zadar, Croatia, 2013
13. **Lipovac, Adriana**; Lipovac, Vladimir; Hamza, Mirza.
Analysis of OFDM Error Floor in Indoor Channels by Stochastic Modeling // Proceedings of the Global Wireless Summit 2013 - Wireless VITAE 2013, Atlantic City, New Jersey, USA, 2013
14. Basic, Nermina; Lipovac, Vladimir; **Lipovac, Adriana**.
Practical Analysis of xDR Based Signaling Network Performance and End-to-End QoS // Lecture Notes in Computer Science, Springer-Verlag NDT 2012, Part II, CCIS / Springer-Verlag, (2012), 34-45

15. **Lipovac, Adriana**; Hadžialić, Mesud; Zlatar, Slađan.

Testing Wander on Practical Transmission Systems // Proc. VIII Intl. Symposium on Telecommunications BIHTEL 2010, Sarajevo, 2010

PROJECTS

1. EuConNeCts4, Topic: CT-19-2019: Advanced 5G validation trials across multiple vertical industries
2. COST Action CA15104 Inclusive Radio Communication Networks for 5G and beyond - IRACON

TEACHING ACTIVITIES

University of Dubrovnik

- October 2012 – February 2013: BSc course “Basics of Communications” (practicum)
- October 2012 – February 2013: MSc course “Statistics Theory of Telecommunications” (practicum)
- February 2013 – June 2015: BSc course “Electrical Measurements and Instrumentation” (lab)
- February 2013 – June 2017: MSc course “Communications Networks Management” (practicum)
- October 2013 – February 2015: BSc course “Basics of Electrical Engineering 1” (practicum)
- October 2013 – February 2017: BSc course “Marine Communication Systems” (practicum)
- October 2013 – February 2016: MSc course “Mobile Maritime Communications Networks” (practicum)
- February 2014 – June 2015: BSc course “Basics of Electrical Engineering 2” (practicum)
- February 2013 – now: MSc course “Architecture of *All-IP* New Generation Networks” (lectures + practicum)
- October 2015 – now: BSc course “Basics of Communications” (lectures + practicum)
- October 2015 – now: MSc course “Statistics Theory of Telecommunications” (lectures + practicum)
- October 2016 – now: MSc course “Mobile Maritime Communications Networks” (lectures + practicum)
- February 2018 – now: BSc course “Electrical Measurements and Instrumentation” (lectures)

LANGUAGE SKILLS

- Croatian – native
- English – excellent in writing and speaking
- German – intermediate in writing and speaking

OTHER ACTIVITIES

- Local Organizing Committee Chair for the European Conference on Networks and Communications, EuCNC 2020
- Member of the Editorial Board (Topic Editor) for the Electronics, MDPI
- Member of the Editorial Board (Co-Editor) for Fiber and Integrated Optics, Taylor & Francis Online
- Member of the Editorial Board for the Journal of Communications Software and Systems (JCOMSS)
- Local organization Co-Chair for the Global Wireless Summit GWS 2016
- Local organization Co-Chair for the International Wireless Communications and Mobile Computing Conference IWCMC 2015
- Head of the Laboratory for Radiocommunication Systems of the University of Dubrovnik
- President of the Committee for Internal Quality Assurance and Improvement System of the Department of Electrical Engineering and Computing, University of Dubrovnik