DRAGAN SAMARDZIJA
CV

EDUCATION

Ph.D. in Electrical Engineering, April 2004
WINLAB, Rutgers, the State University of New Jersey, USA
Thesis: "Multiple Antenna Wireless Systems and Channel State Information"

M.Sc. in Electrical Engineering, June 2000
WINLAB, Rutgers, the State University of New Jersey, USA
Thesis: "Blind Interference Cancellation Schemes for DS-CDMA Systems"
G.P.A. 4.0/4.0

B.Sc. in Electronics and Telecommunications, October 1996
Department of Electrical Engineering, University of Novi Sad, Serbia
G.P.A. 9.28 (out of 10.00) - top 3%

EXPERIENCE

Bell Labs Fellow, 2017
Distinguished Member of Technical Staff, 2014
Research Lab Leader: Stuttgart, Paris, Antwerp, Murray Hill, 2016- present
Department Head, 2014
Nokia Bell Labs, New Jersey, USA

Cloud RAN, virtualization, hardware abstraction
Dedicated (SoC) and CoTS (CPU, GPU) implementation platforms
5G for cyber-physical systems, URLLC
5G short-packet access for massive IoT: waveforms, radio access, connectionless
Low-cost multiple antenna design for higher frequency bands
MIMO/BLAST (theory): detection, estimation and information theory
MIMO/BLAST (practice): chief architect/designer of BLAST and Network MIMO testbed
Propagation measurements for spatial and temporal properties
Real-time prototyping (DSP, FPGA and RF), design and implementation of physical and
MAC layer algorithms (demonstration of MIMO techniques for 3G UMTS and HSDPA)

Adjunct Professor, January – May 2016
Columbia University, School of Engineering

'Wireless Communications - ELAN E4703', senior year and MSc program

University Teacher and Mentor, 2008- present
Faculty of Technical Sciences, University of Novi Sad

M.Sc. course 'Deep Learning for Autonomous and Networked Vehicles'
B.Sc. 3rd-year course 'Computer Network Fundamentals - Wireless Communications'
B.Sc. 2nd-year course 'Internet Fundamentals'
Mentoring B.Sc. and M.Sc. students
Student feedback survey 9.33 out of 10, Jun 2015

Research Assistant, January 1999 - June 2000
WINLAB, Rutgers, New Jersey, USA

> Design, simulation, and performance evaluation of signal processing algorithms for wireless CDMA systems
> Software-defined radio on DSP and FPGA platforms
> Blind interference cancellation

Research Associate, November 1996 - January 1999
Department of Electrical Engineering, University of Novi Sad, Serbia

> Audio and low bit rate speech compression (algorithm design and prototyping)
> Phone-line digital communication systems (algorithm design and prototyping)

AWARDS AND HONORS

- Bell Labs Fellow 2017, "For creation of industry leading wireless solutions and seminal contributions from basic radio theory and algorithmic development, to detailed real-time implementation"
- Distinguished Member of Technical Staff, Bell Labs, 2014
- Central Bell Labs Teamwork Award, Fourth Generation Intelligent Transparent Networks Enhanced through Space-Time Systems Team, 2004
- Central Bell Labs Teamwork Award, HSDPA Demonstration Team, 2003
- As a member of the BLAST project team, a recipient of the 2002 Bell Labs President's Award
- Assistantship at WINLAB, Rutgers, the State University of New Jersey, February 1999-2000
- National Fellowship for Talented Students, Novi Sad, Serbia, 1996-1998

PUBLICATIONS

Journal

1. B. Gokalgandhi, M. Tavares, D. Samardzija, I. Seskar, H. Gacanin, "Reliable Low-Latency Wi-Fi Mesh Networks", IEEE Internet of Things Journal, 2021
2. T. Sizer, D. Samardzija, H, Viswanathan, S. Le, S. Bidkar, P. Dom, E. Harstead, T. Pfeiffer, "Integrated Solutions for Deployment of 6G Mobile Networks", IEEE Journal of Lightwave Technology, 2021
3. M. Uusitalo, H. Viswanathan, H. Kokkoniemi-Tarkkanen, A. Grudnitsky, M. Moisio, T. Härkönen, P. Yli-Paunu, S. Horsmanheimo, D. Samardzija, "Ultra-Reliable and Low-Latency 5G Systems for Port Automation", IEEE Communications Magazine. 2021
4. B. Todorovic, D. Samardzija, "Road Lighting Energy-saving System Based on Wireless Sensor Network", Springer Energy Efficiency, 2017
5. Z. Lukac, S. Ocovaj, D. Samardzija, M. Temerinac, "Fast Edge-preserving Gravity-like Image Interpolation", Computer Science and Information Systems COMSIS, 2017
6. B. Guo, W. Cao, A. Tao, and D. Samardzija, "LTE/LTE-A Signal Compression on the CPRI Interface", Bell Labs Technical Journal, 2013
7. D. Samardzija, J. Pastalan, M. MacDonald, S. Walker, R. Valenzuela, "Compressed Transport of Baseband Signals in Radio Access Networks", IEEE Transactions on Wireless Communications, 2012

8. B. Mrazova, M. Bjelica, D. Kukolj, B. Todorovic, D. Samardzija, "A Human Detection Method for Residential Smart Energy Systems Based on Zigbee RSSI Changes", IEEE Transactions on Consumer Electronics, 2012
9. D. Samardzija, N. Teslic, B. Todorovic, E. Kovac, Dj. Isailovic, B. Miladinovic, "Road Nail: Experimental Solar Powered Intelligent Road Marking System", Journal of Electrical Engineering, 2012
10. F. Verde, Y.-W. P. Hong, D. Samardzija, R. Schober, Z. Tao, "Editorial on Cooperative MIMO Multicell Networks", EURASIP Journal on Advances in Signal Processing, 2011
11. J. Kovacevic, D. Samardzija, M. Temerinac, "Joint Coding Rate Control for Audio Streaming in Short Range Wireless Networks", IEEE Transactions on Consumer Electronics, 2009
12. Z. Ma, M. Zierdt, J. Pastalan, A. Siegel, T. Sizer, A. Wijngaarden, P. Kasireddy, D. Samardzija, "RADIOSTAR: Providing Wireless Coverage Over Gigabit Ethernet", Bell Labs Technical Journal 2009
13. J. Ling, D. Chizhik, D. Samardzija, R. Valenzuela, "Peer-to-Peer MIMO Radio Channel Measurements in a Rural Area", IEEE Transactions on Wireless Communications, 2007
14. D. Samardzija, N. Mandayam, "Impact of Pilot Design on Achievable Data Rates in Multiple Antenna Multiuser TDD Systems", IEEE JSAC, Special Issue on Optimization of MIMO Transceivers, 2007
15. D. Samardzija, N. Mandayam, "Unquantized and Uncoded Channel State Information Feedback in Multiple Antenna Multiuser Systems", IEEE Transactions on Communications 2006
16. D. Samardzija, N. Mandayam, D. Chizhik, "Adaptive Transmitter Optimization in Multiuser Multiantenna Systems: Theoretical Limits, Effect of Delays and Performance Enhancements", EURASIP Journal on Wireless Communications and Networking, 2005
17. D. Samardzija, A. Lozano, C. Papadias, "Design and Experimental Validation of MIMO Multiuser Detection for Downlink Packet Data", EURASIP Journal on Applied Signal Processing, 2005
18. D. Samardzija, N. Mandayam, "Pilot Assisted Estimation of MIMO Fading Channel Response and Achievable Data Rates", IEEE Transactions on Signal Processing, Special Issue on MIMO, 2003
19. A. Burg, E. Beck, D. Samardzija, M. Rupp, et al., "Prototype Experience for MIMO BLAST over Third Generation Wireless System", IEEE JSAC on MIMO Systems and Applications: Part I, 2003
20. D. Samardzija, C. Papadias, R. Valenzuela, "Experimental Evaluation of Unsupervised Channel Deconvolution for Wireless Multiple-Transmitter/Multiple-Receiver Systems", Electronics Letters IEE, 2002
21. D. Samardzija, N. Mandayam, I. Seskar, "Blind Successive Interference Cancellation for DS-CDMA Systems", IEEE Transactions on Communications, 2002
22. D. Samardzija, N. Mandayam, I. Seskar, "Multistage Nonlinear Blind Interference Cancellation for DS-CDMA Systems", Journal of VLSI Signal Processing, 2002 Kluwer Academic Press

Conference

1. B. Strbac, M. Gostovic, Z. Lukac, D. Samardzija, "YOLO Multi-Camera Object Detection and Distance Estimation", IEEE ZINC, 2020
2. D. Chizhik, J. Du, R. Valenzuela, D. Samardzija, S. Kucera, D. Kozlov, R. Fuchs, "Diffusion Model for Cluttered Industrial Environments at 28 GHz", IEEE Symposium on Antennas and Propagation, 2020
3. J. Otterbach, T. Schlitter, R. Fuchs, H. Heimpel, M. Macdonald, D. Samardzija, "PHY Layer for 5G Radio-Based Precise Positioning in 5GCAR Vulnerable Road User", ITG Workshop on Smart Antennas, 2020

4. M. Arvinte, M. Tavares, D. Samardzija, "Beam Management in 5G NR using Geolocation Side Information", CISS, 2019

5. H. Kokkoniemi-Tarkkanen, S. Horsmanheimo, A. Grudnitsky, M. Moisio, Z. Li, M. Uusitalo, D. Samardzija, T. Härkönen, P. Yli-Paunu, "Enabling Safe Wireless Harbor Automation via 5G URLLC", IEEE 5G World Forum, 2019

6. M. Pilipovic, D. Samardzija, "Optimized Wireless Connectivity for Cyber-Physical Systems with Publisher/Subscriber Architecture", IEEE UEMCON, 2019

7. R. Bhatia, B. Gupta, S. Benno, J. Esteban, D. Samardzija, M. Tavares, T. Lakshman, "Massive Machine Type Communications over 5G using Lean Protocols and Edge Proxies", IEEE 5G World Forum, 2018

8. M. Zivkovic, J. Otterbach, M. Tavares, D. Harman, D. Samardzija, "An SDR-based Turbo-SIC Implementation: Towards a 5G New Radio Advanced Receiver for Uplink Boosting", IEEE PIMRC, 2017

9. M. Tavares, D. Samardzija, H. Viswanathan, H. Huang, C. Kahn, "A 5G Lightweight Connectionless Protocol for Massive Cellular Internet of Things", IEEE WCNC, 2017

10. P. Weitkemper, J. Koppenborg, J. Bazzi, R. Rheinschmitt, K. Kusume, D. Samardzija, R. Fuchs, A. Benjebbour, "Hardware Experiments on Multi-Carrier Waveforms for 5G", IEEE Wireless Communications and Networking Conference, 2016

11. B. Mrazovac, B. M. Todorovic, D. Kukolj, D. Samardzija, "A Solution for Enabling Intelligent Street Lighting in Smart Cities", VDE-Kongress, 2014

12. S. Sen, T. Zhang, M. M. Buddhikot, S. Banerjee, D. Samardzija, S. Walker, "Dual Technology Femto Cell Architecture for Robust Communication using Whitespaces", IEEE International Symposium on Dynamic Spectrum Access Networks (DySPAN), 2012 [awarded the best technical paper with student authors]

13. M. Vasic, D. Samardzija, M. Temerinac, B. Miladinovic, "A Radio-frequency Method for Remote Controller Positioning and Device Pairing: Experimental Evaluations", IEEE International Conference on Consumer Electronics (ICCE), 2012

14. D. Samardzija, A. Domazetovic, "Coherent Joint-Processing CoMP in Pico-Cellular Lamp-Post Street Deployment", The Twelfth IEEE International Workshop on Signal Processing Advances in Wireless Communications (SPAWC), 2011

15. D. Samardzija, E. Kovac, Dj. Isailovic, B. Miladinovic, N. Teslic, M. Katona, "Road Nail: Intelligent Road Marking System Testbed", IEEE Vehicular Networking Conference (VNC), 2010

16. H. Huang, O. Alrabadi, J. Daly, D. Samardzija, C. Tran, R. Valenzuela, S. Walker, "Increasing Throughput in Cellular Networks with Higher-Order Sectorization", Asilomar Conference on Signals, Systems and Computers, 2010

17. D. Samardzija, M. Pilipovic, J. Kovacevic, M. Temerinac, "Performance of LTE Linear MIMO Detectors: Achievable Data Rates and Complexity", IEEE International Symposium on Consumer Electronics (ISCE), 2010

18. H. Huang, D. Samardzija, "Determining Backhaul Bandwidth Requirements for Network MIMO", European Signal Processing Conference (EUSIPCO), 2009

19. J. Kovacevic, D. Samardzija, M. Temerinac, "Optimized Joint Coding Algorithm for Audio Streaming in Short Range Wireless Networks", IEEE International Conference on Consumer Electronics (ICCE), 2009

20. O. Ileri, D. Samardzija, N. Mandayam, "Dynamic Property Rights Spectrum Access: Flexible Ownership Based Spectrum Management ", IEEE DySPAN, 2007

21. D. Samardzija, B. K. Park, O. Boric-Lubecke, V. M. Lubecke, A. Host-Madsen, T. Sizer , "Experimental Evaluation of Multiple Antenna Techniques for Remote Sensing of Physiological Motion", IEEE MTT-S International Microwave Symposium (IMS), 2007

22. D. Samardzija, H. Huang, C. Woodworth, S. Walker, R. Valenzuela, T. Sizer, "Implementation Aspects of Downlink Multiuser MIMO System with Distributed and Coherently Coordinated Transmit Antennas", European Signal Processing Conference (EUSIPCO), 2007

23. D. Samardzija, H. Huang, R. Valenzuela, T. Sizer, "An Experimental Downlink Multiuser MIMO System with Distributed and Coherently-Coordinated Transmit Antennas ", IEEE ICC, 2007

24. D. Samardzija, "Some Analogies Between Thermodynamics and Shannon Theory", Conference on Information Sciences and Systems (CISS), 2007

25. D. Samardzija, L. Xiao, N. Mandayam, "Impact of Pilot Assisted Channel State Estimation on Multiple Antenna Multiuser TDD Systems with Spatial Filtering", Conference on Information Sciences and Systems (CISS), 2006

26. O. Ileri, D. Samardzija, T. Sizer, N. Mandayam, "Demand Responsive Pricing and Competitive Spectrum Allocation via a Spectrum Server", IEEE DySPAN, 2005

27. J. Ling, D. Chizhik, D. Samardzija, R. A. Valenzuela, "Wideband and MIMO Measurements in Wooded and Open Areas", IEEE Conference on Antennas and Propagation, 2005

28. O. Boric-Lubecke, V. M. Lubecke, A. Host-Madsen, D. Samardzija, K. Cheung, "Doppler Radar Sensing of Multiple Subjects in Single and Multiple Antenna Systems", 7th International Conference on Telecommunications in Modern Satellite, Cable and Broadcasting Services (TELSIKS)

29. D. Chizhik, J. Ling, D. Samardzija, R. A. Valenzuela, "Spatial and Polarization Characterization of MIMO Channels in Rural Environment", IEEE Vehicular Technology Conference (VTC), 2005

30. D. Samardzija, N. Mandayam, "Unquantized and Uncoded Channel State Information Feedback on Wireless Channels", IEEE Wireless Communications and Networking Conference (WCNC), 2005

31. D. Samardzija, O. Boric-Lubecke, A. Host-Madsen, V. M. Lubecke, T. Sizer, A. D. Droitcour, G. T. A. Kovacs, "Applications of MIMO Techniques to Sensing of Cardiopulmonary Activity", IEEE/ACES International Conference on Wireless Communications and Applied Computational Electromagnetics, 2005

32. D. Samardzija, A. Lozano, C. Papadias, "Experimental Validation of MIMO Multiuser Detection for UMTS High-Speed Downlink Packet Access", IEEE Global Telecommunications Conference (GLOBECOM), 2004

33. D. Samardzija, D. Chizhik, N. Mandayam, "Downlink Multiple Antenna Transmitter Optimization on Spatially and Temporally Correlated Channels with Delayed Channel State Information", Conference on Information Sciences and Systems (CISS), 2004

34. D. Samardzija, N. Mandayam, "Unquantized and Uncoded Channel State Information Feedback on Wireless Channels", Conference on Information Sciences and Systems (CISS), 2004

35. D. Samardzija, N. Mandayam, "Multiple Antenna Transmitter Optimization Schemes for Multiuser Systems", IEEE Vehicular Technology Conference (VTC), 2003

36. D. Samardzija, N. Mandayam, "Pilot Assisted Estimation of MIMO Fading Channel Response and Achievable Data Rates", DIMACS Workshop on Signal Processing for Wireless Communications, Rutgers University, 2002

37. D. Samardzija, N. Mandayam, "Estimation of Fading Channel Response and System Capacity Considerations", Conference on Information Sciences and Systems (CISS), 2002

38. D. Samardzija, C. Papadias, R. Valenzuela, "Experimental Evaluation of Unsupervised Channel Deconvolution for Wireless Multiple-Transmitter/Multiple-Receiver Systems", GLOBECOM 2001

39. D. Samardzija, P. Wolniansky, J. Ling, "Performance Evaluation of the VBLAST Algorithm in W-CDMA Systems", the IEEE Vehicular Technology Conference (VTC), 2001

40. H. Zheng, D. Samardzija, "Performance Evaluation of Indoor Wireless System Using BLAST Testbed", the IEEE Vehicular Technology Conference (VTC), Atlantic City, 2001
41. H. Zheng, D. Samardzija, " Performance Evaluation of Indoor Wireless Video System Using BLAST Testbed", Conference on Information Sciences and Systems (CISS), 2001
42. D. Samardzija, N. Mandayam, I. Seskar, "Multistage Blind Interference Cancellation and Channel Estimation for DS-CDMA Systems", Conference on Information Sciences and Systems (CISS), 2001
43. D. Samardzija, N. Mandayam, I. Seskar, "Nonlinear Adaptive Blind Interference Cancellation for DS-CDMA Systems", the IEEE Vehicular Technology Conference (VTC), 2000
44. D. Samardzija, N. Mandayam, I. Seskar, "Blind Interference Cancellation for the Downlink of CDMA Systems", 34th Annual Conference on Information Sciences and Systems (CISS), 2000
45. A. Domazetovic, D. Samardzija, "Implementation of 4880 bps CELP on MASC 3500 DSP", Conference on Telecommunications ETRAN, 1998
46. D. Samardzija, Z. Lukac, "A Solution of CELP Encoder at 5.3kbit/s and 6.3kbit/s on ITT MASC 3500 Processor", Conference on Telecommunications ETRAN, 1998
47. Z. Lukac, D. Samardzija, M. Temerinac, "Real-Time Implementation of Low Delay CELP (ITU-T Rec. G.728) on ITT DSP MAS 3503 C", Conference on Telecommunications ETRAN, 1997
48. D. Samardzija, Z. Lukac, M. Temerinac, "Real-Time Implementation of QAM Modem on ITT DSP MAS 3503 C", Conference on Telecommunications ETRAN, 1997
49. D. Samardzija, M. Popovic, "Design of QAM Modem Based on Pattern Recognition Approach", Conference on Telecommunications ETRAN, 1996

Book

1. *Deep Learning for Autonomous Vehicles*, D. Samardzija, M. Milosevic, Textbook in Serbian. FTN, University of Novi Sad, 2021
2. *Multiple Antenna Channels: Capacity, Coding and Signal Processing*, edited by G.J. Foschini and S. Verdu, DIMACS Series in Discrete Mathematics and Theoretical Computer Science, American Mathematical Society, 2002
   D. Samardzija, N. Mandayam "Pilot Assisted Estimation of MIMO Fading Channel Response and Achievable Data Rates", Part III

GRANTED PATENTS

1. Switched-beam communication node, EP3675280A1, 2018
2. A proxy for serving internet-of-things (iot) devices, WO2018187135A1, 2017
3. Successive interference cancellation and multi-user minimum mean square channel estimation based on soft decoding information, WO2018183424A1, 2017
4. Method, apparatus, computer program product and computer program, EP3688941A1, 2017
5. Methods and systems for beam searching, WO2018048714A1, 2016
6. System and method of controlling network traffic using preamble detection and automated optimization of random access channel parameters, WO2017222789A1, 2016
7. Conformal antenna array, JP2015111940A, 2011
8. Method and apparatus for determining tag location, WO2015130458A1, 2014
9. Controlling uplink transmissions from interfering stations, EP3053389A1, 2013
10. Opportunistic information forwarding using wireless terminals in the internet-of-things, US9565633B2, 2014
11. Methods and systems for caching content in a network, WO2014209584A1, 2013
12. Synchronization of transmission intervals in wi-fi, TWI513354B, 2012

13. Methods, apparatus and user equipment for wireless communication using a short-range base station with multiple radio interfaces of different technologies, EP2910046B1, 2012
14. Method for compressing/decompressing multi -carrier modulation signal and corresponding compressor/decompressor, WO2013084058A1, 2011
15. Method and apparatus for signal compression and decompression, EP2673884A1, 2011
16. Antenna array for supporting multiple beam architectures, EP2661787A2, 2011
17. Channel information feedback reduction in communication network US20120196607A1, 2011

GRANTS

- ''Modernizing Laboratories for Innovative Technologies (DRIVE)", Interreg IPA CBC Croatia-Serbia Program , 2017-2019
- ''GOALI: MIMO Techniques for Remote Sensing of Physiological Motion", granted by National Science Foundation, 2004, collaboration between University of Hawaii and Bell Labs
- ''High Performance Cognitive Radio Platform with Integrated Physical and Network Layer Capabilities", granted by National Science Foundation, 2004, collaboration between WINLAB (Rutgers University), Bell Labs, and Georgia Institute of Technology
- ''Fourth Generation Intelligent Transparent Networks Enhanced through Space-Time Systems (FITNESS)", granted by the European Union Information Society Technologies, 2001-2003, collaboration between Bell Labs, Motorola and a number of European universities

INVITED TALKS AND TRANNINGS

- '' 5G, 6G, NextG: Wireless Network Designers Discuss Architecture and Innovation", Panel, Princeton Engage, 2021
- ''5G-Advanced and Path to 6G", ICCE, The IEEE 5G World Forum, 2021
- ''5G Next Generation Wireless Access", ICCE, Berlin, 2017
- ''Use Cases for Next Generation Wireless Systems", WCNC, San Francisco, 2017
- ''LTE and LTE Advanced", TELEFOCAL, Brisbane, 2013
- ''Overview of LTE and LTE Advanced", TELEFOCAL, Singapore, 2011
- ''WiMAX RF Planner", TELEFOCAL, Cairo, 2008
- ''WiMAX Broadband Wireless Access", TELEFOCAL, Fiji, 2007
- ''Indoor NetworkMIMO Experiment", Technical University Federico Santa Lucia, Valparaiso, 2007
- ''UMTS and HSDPA Technology and Services", 2nd Southeastern Europe Broadband Conference Program, Belgrade, 2007
- ''An Experimental Downlink Multiuser MIMO System with Distributed and Coherently-Coordinated Transmit Antennas", Heinrich Hertz Institute, Berlin, 2007
- ''HSDPA Radio Planning", TELEFOCAL, Singapore, 2006
- ''Applications of MIMO Techniques to Sensing of Cardiopulmonary Activity" University of Hawaii, 2005

MENTORING/ADVISING

- Bojan Uljarevic, B.Sc. thesis, "Motion Detection using Signal Strength Analysis in Wireless Sensor Networks", University of Novi Sad, 2021

- Strahinja Mrsic, B.Sc. thesis, "Implementation of Intruder Detection by Raspberry Pi Device", University of Novi Sad, 2021
- Srdjan Usorac, M.Sc. thesis, "An Integrated System of Infrastructure Cameras for Traffic Participant Monitoring", University of Novi Sad, 2020
- Milan Musikic, B.Sc. thesis, "Implementation of Intrusion Detection by Android Device", University of Novi Sad, 2020
- Branislav Sredojev, M.Sc. thesis, "Design and Implementation of Data Transport and Protection Based on WebRTC Technology", University of Novi Sad, 2015
- Dragan Posarac, M.Sc. thesis, "Implementation of P2P Video Link Using WebRTC over WebSocket", University of Novi Sad, 2015
- Bankovic Lazar, M.Sc. thesis, "One Realization of a Simple Mesh Protocol, Implemented as a Kernel Object for LINUX Kernel 2.6", University of Novi Sad, 2014
- Tara Petric, B.Sc. thesis," Opportunistic Information Harvesting in Wireless Sensor Networks", University of Novi Sad, 2014
- Djordje Dokic, B.Sc. thesis, "One Solution 1 Gbit LAN Interconnecting Subsystem in FPGA", University of Novi Sad, 2014
- Nikola Pilja, B.Sc. thesis, "One Solution of Parsing IP Flow Fata at OSI Layers", University of Novi Sad, 2014
- Aleksandar Miljkovic, M.Sc. thesis, "Smart Garden: Application of Network-enhanced Environmental Cognition", University of Novi Sad, 2011
- Milos Vasic, M.Sc. thesis, "Radio-frequency Method for Remote Controller Positioning and Device Pairing", University of Novi Sad, 2011
- Marko Vucicevic, B.Sc. thesis, "Cellular Connectivity for Intelligent Road-marking System", University of Novi Sad, 2010
- Erne Kovac, M.Sc. thesis, "Power Supply Subsystem for Intelligent Road-marking System", University of Novi Sad, 2010
- Djordje Isailovic, M.Sc. thesis, "Sensor Subsystem for Intelligent Road-marking System", University of Novi Sad, 2010
- Bojan Miladinovic, M.Sc. thesis, "Wireless Communication Subsystem for Intelligent Road-marking System", University of Novi Sad, 2010
- Milos Pilipovic, M.Sc. thesis, "Joint Source and Channel Coding for Wireless Transmission of Audio Signals", University of Novi Sad, 2008
- Byung-Kwon Park, "MIMO Sensing: Detection of Cardio and Pulmonary Activity", internship at Bell Labs, 2006
- Omer Ileri, "Dynamic Spectrum Access and Pricing", internship at Bell Labs, 2005, external member of the Ph.D. proposal committee
- Nabil Muhamed, Internship at Bell Labs, 2003

SERVICES

- Reviewer for IEEE journals and conferences (Transactions on Communications, Transactions on Wireless Communications, Information Theory, Signal Processing, Vehicular Technology, Selected Areas in Communications)

REFERENCES AVAILABLE UPON REQUEST