

VLADIMIR M. MLADENOVIC



The School of Electrical Engineering

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EDUCATION

PhD, Electrical Eng. – University of Kragujevac, Technical faculty, Cacak, Serbia, March 2009
Title: *Development more functional computer acquisition system in low-voltage networks and electrical installations*

MSc, Electrical Eng. – University of Nis, Faculty of Electrical Engineering, Nis, Serbia, May 2005
Title: *Statistical detection in communication channels when noise and fading present*

Dipl-Ing, Electrical Eng. - University of Nis, Faculty of Electrical Engineering, Nis, Serbia, September 2000
Title: *Using ATM technique in SDH networks*

EXPERIENCE

(Maj 2001 – Februar 2005) **IT manager** at the Serbian Glass Factory

(September 2004 - Present) **Teacher** at the School of Electrical Engineering Paracin, Serbia

Teaching courses:

- Programming in C/C++
- Microprocessors
- Networks&Communications

(September 2005 - September 2006) **Lecturer** at the Advanced School of Electrotechnical Engineering Belgrade – Department in Paracin, Serbia

Teaching courses:

- Computer technique and programming I&II
 - Programming
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TECHNICAL SKILLS

- **Standards:** ISO 11801, IEEE802.1x, IEEE 802.3x
 - **Programming languages**
 - C/C++ (Visual C++), Visual Basic, MS Access, Fortran, 80xx assembler
 - **Operating systems**
 - Windows NT/2000/XP, Windows 95/98/Me, MSDOS, Unix, Linux
 - **Software Packages**
 - Mathematical and statistical packages: MATLAB, Wolfram Research Mathematica
 - Electrical Engineering packages: Spice, CircuitMaker – Spice Simulator, Electronic Workbench
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MAIN RESEARCH INTERESTS

- Coding Theory, Detection Theory, Parameter Estimation, Spectrum Analysis, Digital Signal Processing, Mobile Communications

GOVERNMENT EXPERIENCE THE MINISTRY OF JUSTICE OF SERBIAN GOVERNMENT

Expert Witness

- Computer's systems
- Hardware
- Telecommunication equipments
- Telecommunication system
- Operating systems
- Application softwares

PUBLICATIONS

2002

1. *Coherent detection FSK where fading present*, **V.Mladenovic**, E.Ramusovic, YUINFO 2002, Serbia&Montenegro
2. *Noncoherent detection FSK with envelope detector where fading present*, **V.Mladenovic**, M. Milicevic, ICEST 2002, Nis, Serbia&Montenegro, page 581-583
3. *Coherent detection FSK when fading present with Rician distributing*, **V.Mladenovic**, K. Samir, TELFOR 2002 – IEEE COM SOC Chapter Serbia & Montenegro, Belgrade, Serbia&Montenegro, page 272-274

2003

4. *Performances of cascade complex FSK-ASK telecommunication system*, **V.Mladenovic**, B. Stankovic, INFOTEH 2003, Republic of Serbia
5. *Capacity of fading channel for noncoherent FSK detection*, **V.Mladenovic**, M.Stefanovic, The 2003 International Conference on Communications in Computing (CIC'03, June 23-26, 2003, Las Vegas, Nevada, USA, Paper ID #: 128CI,
6. *The characteristics of the envelop and derivation of the envelop when fading is present*, **V.Mladenovic**, Lj.Jovanov, 6th International Conference on Telecommunications in Modern Satellite, Cable and Broadcasting Services- TELSIXS – IEEE societies: MTT, AP, Communications, and Region 8., October 1-3, 2003, Nis, Serbia&Montenegro, page 653-655
7. *Expanding of Information System in Serbian Glass Factory in Paracin*, **V.Mladenovic**, M.Dupalo, S.Parc, YUINFO 2003, Serbia&Montenegro, page 33

2005

8. *Changing Capacity of Channel When Shadowing and Noise are Present*, **V.Mladenovic**, Stefanavic M., International Conference on Communication, Computer and Power (ICCCP'05 – IEEE Oman Session), Oman February, 2005, Session 4 (CSP)
9. *The Characteristics of the Phase and Derivation of the Phase When Fading is Present*, **V.Mladenovic**, Radenkovic D, International Conference on Communication, Computer and Power (ICCCP'05 - IEEE Oman Session), Oman February, 2005, Session 7 (CSP)
10. *The channel capacity of PSK system with two samples per bit*, **MSc V.Mladenovic**, PhD M.Petrovic, TELFOR 2005 – IEEE COM SOC Chapter Serbia & Montenegro, Belgrade, Serbia&Montenegro, SPS#4.8
11. *System control and monitoring using human machine interface*, **MSc V.Mladenovic**, G.E.E. C.Nilsen, 2005 – IEEE COM SOC Chapter Serbia & Montenegro, Belgrade, Serbia&Montenegro, PU#1.5

12. *Probability error of unideal extraction of discret phase shift using zero components*, **M.Sc. V.Mladenovic**, PhD S.Bjelic, INFOTEH 2006, Republic of Serbia, Sesija D
13. *Devices in the system of protection for short connection and electric shocks of high currents and overload*, PhD S.Bjelic, **MSc V.Mladenovic**, MSc U.Jaksic, Proceeding Technical Education Conference, Cacak, Serbia&Montenegro April, 2006.
14. *Analogue and digital modular measuring instruments*, MSc U.Jaksic, **MSc V.Mladenovic**, Proceeding Technical Education Conference, Cacak, Serbia&Montenegro, April, 2006.
15. *Settings the audio – video systems*, **MSc V.Mladenovic**, MSc U.Jaksic, Proceeding Technical Education Conference, Cacak, Serbia&Montenegro 13-16 April, 2006
16. *Measuring of nonsymmetrical components in power energy networks*, **MSc V.Mladenovic**, PhD Slobodan Bjelic, The IASTED International Conference on Power, Energy, and Applications PEA(2006), September 11-13, 2006, Gaborone, Botswana, ID#506-047
17. *Detection of signal in two time moments when the noise correlated and in presence fading*, **MSc V.Mladenovic**, 50. Conference ETRAN (Society for Electronics, Telecommunications, Computers, Automation and Nuclear Engineering), Serbian IEEE section, Belgrade 6 – 9. Jun 2006. Serbia&Montenegro, TE3.7
18. *Discret signal processing in function of measurments, control and protection of power system versus short contacts*, **MSc V.Mladenovic**, PhD S.Bjelic, Proceeding of The Advanced School of Electrotechnical Engineering Pozarevac, April 2006.
19. *Process control system using complex modules*, G.E.E. C.Nilsen, **MSc V.Mladenovic**, The Fifteenth National Scientific and Aplied Science Conference - ELECTRONICS-ET2006, 20 – 22 September 2006., Sozopol, Bulgaria, Paper P.3.16, BOOK 4 ISBN 954-438-567-3, page 21-27
20. *The capacity of channel of complex BPSK-LP system*, **MSc V.Mladenovic**, PhD M.Petrovic, The Fifteenth National Scientific and Aplied Science Conference - ELECTRONICS-ET2006, 20 – 22 September 2006., Sozopol, Bulgaria, BOOK 1, ISBN 954-438-564-9, Paper B.1, page 15-19
21. *The voltage dependence of control current symetrical components on the output of the distant current's sonde*, MSc U.Jaksic, **MSc V.Mladenovic**, PhD S.Bjelic, The Fifteenth National Scientific and Aplied Science Conference - ELECTRONICS-ET2006, 20 – 22 September 2006., Sozopol, Bulgaria, BOOK 4 ISBN 954-438-567-3, Paper P.3.17, page 15-20
22. *Algorithm of measurment – information system to make diagnosis faults in electrical networks*, PhD S.Bjelic, **MSc V.Mladenovic**, 14th TELECOMMUNICATIONS FORUM, TELFOR 2006., IEEE COM SOC Chapter Serbia & Montenegro, Belgrade, Serbia 21, 22 and 23. November 2006 (in Serbian), PEL#7.6
23. *Digital filter for obtaining inverse component in electrical networks*, **MSc V.Mladenovic**, PhD M.Petrović, PhD S.Bjelic, 14th TELECOMMUNICATIONS FORUM, TELFOR 2006., IEEE COM SOC Chapter Serbia & Montenegro, Belgrade, Serbia 21, 22 and 23. November 2006 (in Serbian), OS#5.1
24. *Signals and signal processing in Technical Information System of Holcim Serbia*, G.E.E. C.Nilsen, **MSc V.Mladenovic**, 14th TELECOMMUNICATIONS FORUM, TELFOR 2006, IEEE COM SOC Chapter Serbia & Montenegro, Belgrade, Serbia 21, 22 and 23. November 2006, CAA#9.26
25. *Parametrical lowpass filters higher order as models to obtain digital filters*, **MSc V.Mladenovic**, PhD S.Bjelic, Proceeding of The Advanced School of Electrotechnical Engineering Zvecan, December 2006
26. *Influence harmonics of higher order to form of real signal basic frequency in electrical networks*, **MSc V.Mladenovic**, PhD M.Vujicic, Proceeding of The Advanced School of Electrotechnical Engineering Zvecan, December 2006

2007

27. *Influence of nondominant higher harmonics to dominant basic harmonic in electrical networks*, PhD S.Bjelic, **MSc V.Mladenovic**, Proceeding of The Advanced School of Electrotechnical Engineering Zvecan, March, 2007, page 127-132
28. *Estimation of time characteristic of measurement – information system*, **MSc V.Mladenovic**, PhD S.Bjelic, Proceeding of The Advanced School of Electrotechnical Engineering Zvecan, March, 2007, page 121-126
29. *Signal detection of coherent PSK in two time moment sampling when correlated noise and fading are present*, **MSc V.Mladenovic**, PhD S.Bjelic, Proceeding of The Advanced School of Electrotechnical Engineering Zvecan, March, 2007, page 113-120
30. *Negative electromagnetic radiation effects mobile phones in security environment*, PhD S.Bjelic, **MSc V.Mladenovic**, International discussion Protection of environment in industrial environments, Kosovska Mitrovica 19-20 April 2007
31. *Digital filter for obtaining negative sequence component in electrical networks*, PhD M.Vujcic, **MSc V.Mladenovic**, ETRAN 2007, Serbian IEEE section
32. *Electrical filters for analyses of cross processes*, PhD S.Bjelic, **MSc V.Mladenovic**, ETRAN 2007, Serbian IEEE section
33. *The probability error of detection of faults using zero component in symmetrical system of electrical networks*, PhD S.Bjelic, **MSc V.Mladenovic**, Electric Power Engineering 2007 the 8th International Scientific Conference, June 12 - 14, 2007, Czech Republic, Paper N° 2
34. *The capacitance coupling like alternative to inductance for measurement symmetrical current's components in electrical networks*, MSc U.Jaksic, BSc S.Tonic, PhD S.Bjelic, **MSc V.Mladenovic**, PhD M.Vujcic, 8th INTERNATIONAL CONFERENCE ON APPLIED ELECTROMAGNETICS PES 2007, IEEE Serbia&Montenegro Section, September 3 – 5, 2007, Niš, Serbia, O2-6
35. *Broadband VHF aeronautical communication system*, **MSc V.Mladenovic**, PhD M.Lutovac, 15th TELECOMMUNICATIONS FORUM, TELFOR 2007, IEEE COM SOC Chapter Serbia & Montenegro Belgrade, Serbia 20, 21 and 22. November 2007, RC#3.16
36. *Separation of negative sequence using prototype of allpass filter*, **MSc V.Mladenovic** PhD S.Bjelic, 15th TELECOMMUNICATIONS FORUM, TELFOR 2007, IEEE COM SOC Chapter Serbia & Montenegro Belgrade, Serbia 20, 21 and 22. November 2007, SP#5.6
37. *Stochastic character of unsymmetrical components as prerequisite for processes of acquisition and detection*, PhD M. Vujcic, **MSc V.Mladenovic**, 15th TELECOMMUNICATIONS FORUM, TELFOR 2007, IEEE COM SOC Chapter Serbia & Montenegro Belgrade, Serbia 20, 21 and 22. November 2007, AEE#7.8
38. *Development of aeronautical communication system using computer algebra systems*, PhD M.D.Lutovac, **MSc V.M.Mladenovic**, XXV Symposium of a new technologies in post office and telecommunication traffic - PosTel 2007, Belgrade, 11-12. December 2007.

2008

39. *Methodological Approach Development Of Data Acquisition And Processing Systems In Electrical Networks*, **MSc V. Mladenovic**, PhD S. Bjelic, TEHNIKA, Serbian scientific and technical magazine
40. *A New Methodology of Research of Appearances in Electrical Networks using Digital Signal Processing*, **MSc V. Mladenovic**, PhD S. Bjelic, ETRAN 2008, Serbian IEEE section

2009

41. *Modeling events faults using negative sequence component and 3rd harmonic in data acquisition systems of electrical networks*, **PhD EE V. Mladenovic**, PhD EE S. Bjelic, 9th INTERNATIONAL CONFERENCE ON APPLIED ELECTROMAGNETICS PES 2009, IEEE Serbia&Montenegro Section, August 31 - September 02, 2009, Niš, Serbia

42. *Post-processing with advanced symbolic simulation and design using SchematicSolver and Mathematica*, PhD EE M. Lutovac, **PhD EE V. Mladenovic**, 9th International Conference on Telecommunications in Modern Satellite, Cable and Broadcasting Services- TELSIS – IEEE societies: MTT, AP, Communications, and Region 8., October 7 - 9, 2009. Nis, Serbia&Montenegro
