

Gleb V. Tcheslavski  
P.O. Box 10029, Beaumont, TX, 77710-0029  
409-880-7622  
gleb@lamar.edu

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## EDUCATION

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*Virginia Tech, Blacksburg, VA*

**Ph.D. in Electrical Engineering**

Dissertation: "Coherence and Phase Synchrony Analysis of Electro-encephalogram (EEG)"  
Area: Digital Signal Processing

[2001-  
2005]

*Bauman Moscow State Technical University, Moscow, Russia*

**Engineer-Developer (BS+MS equivalent) in Electrical/Electronic Engineering**

Thesis 2: "Development and Simulation of Millimeter Band Radar with Long Sounding Signals"

[1990-  
1997]

Area: Radar Applications

Thesis 1: "Development and Implementation of a Wireless Computer Network Link"

Area: Networking Hardware Development

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## ACADEMIC AWARDS

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- Postdoctoral Fellowship, University of Houston

[2006 –  
2007]

- President's Graduate Scholarship, Russia, BMSTU

[1996 –  
1997]

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## TEACHING EXPERIENCE

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*Lamar University, Beaumont, TX*

**Associate Professor**

Developed syllabi, overall courses structure, and administered all grades.

[2014 –  
present]

*Lamar University, Beaumont, TX*

**Assistant Professor**

Developed syllabi, overall course structure, and administered all grades.

[2008 –  
2014]

*Lamar University, Beaumont, TX*

**Visiting Assistant Professor**

Developed syllabus and overall course structure, and administered all grades.

[2007 –  
2008]

*Virginia Tech, Blacksburg, VA*

**Graduate Teaching Assistant** – Physics PHYS 2215, PHYS 2216, PHYS 2306

Conducted laboratory exercise in Introductory Physics, graded assignments, held office hours, administered recitation sessions

[2002 –  
2005]

*Bauman Moscow State Technical University, Moscow, Russia*

**Teaching Assistant**

Assisted in conducting laboratory exercises in Introductory Radio-electronics

[1997 –  
1999]

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## SIGNIFICANT PROFESSIONAL PUBLICATIONS

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H. Shrivastava, **G.V. Tcheslavski**, 2018, "On the potential of EEG for biometrics: combining power spectral density with a statistical test", *International Journal of Biometrics*, 10(1), 52-64.

K.A. Islam, **G. Tcheslavski**, 2017, "On Use of Independent Component Analysis for Ocular Artifacts Reduction of Electroencephalogram and while Using Kurtosis as the Threshold", *International Journal of Bioautomation*, 21(3), 251-260.

Md. Reshad Ul Hoque, **G.V. Tcheslavski**, 2016, "EEG-based study of driver's cognitive response to virtual traffic environment via parametric spectral analysis of event related potentials", Joint Spring 2016 Meeting of the Texas Sections of APS, AAPT, and Zone 13 of SPS - March 31 - April 2, 2016.

K.A. Islam, **G.V. Tcheslavski**, 2015, "Independent Component Analysis for EOG artifacts minimization of EEG signals using kurtosis as a threshold", *Proceedings of Electrical Information and Communication Technology (EICT), 2015 2nd International Conference on, IEEE, Khulna, Bangladesh, 10-12 December 2015*, 137-142.

S.R. Yeddula, **G.V. Tcheslavski**, 2015, "Design and analysis of low cost electro-dermal response system using Texas Instrument's MSP430 Value Line Launchpad", *International Journal of Bioautomation*, 19(1), 79-94.

L. Porter, **G.V. Tcheslavski**, 2013, "Using Photoplethysmography for blood pressure estimation with telemedicine application", *International Journal of Engineering Research and Technology* 2(11), 2202-2205.

R. Guntaka, **G.V. Tcheslavski**, 2013, "On the EEG-based automated detection of alcohol dependence", *International Journal of Bioautomation*, 17(3), 167-176.

F.F. Gonnen, **G.V. Tcheslavski**, 2012, "Techniques to assess Stationarity and Gaussianity of EEG: an overview", *International Journal of Bioautomation*, 16(2), 135-142.

**G.V. Tcheslavski**, F.F. Gonnen, 2012, "Alcoholism-related alterations in spectrum, coherence, and phase synchrony of topical electroencephalogram", *Computers in Biology and Medicine*, 42, 394-401.

**G.V. Tcheslavski**, A.A. (Louis) Beex, 2010, "Effects of smoking, schizotypy, and eyes open/closed conditions on the  $\gamma_1$  rhythm phase synchrony of the electroencephalogram", *Biomedical Signal Processing and Control*, 5, 164-173.

J. Prigmore, **G. Tcheslavski**, C. Bahrim, 2010, "An IGCT-Based Electronic Circuit Breaker Design for a 12.47kV Distribution System", *IEEE PES General Meeting*, July 2010

**G.V. Tcheslavski**, 2008, "Effects of tobacco smoking and schizotypal personality on spectral contents of spontaneous EEG", *International Journal of Psychophysiology*, 70, 88-93.

**G.V. Tcheslavski**, A.A. (Louis) Beex, 2006, "Phase synchrony and coherence analyses of EEG as tools to discriminate between children with and without attention deficit disorders", *Biomedical Signal Processing and Control*, 1, 2006, 151-161.

V.A. Kalatsky, E.M. O'Connor, **G.V. Tcheslavski**, 2006, "Concurrent multidimensional imaging of visual space representations in mouse visual cortex by Fourier optical imaging of intrinsic signals". *Society of Neuroscience Abstract*, 2006; 503.9.

**G.V. Tcheslavski**, A.A. (Louis) Beex, 2005, "Properties and parameter selection for phase synchrony processing of EEG signals," *Proceedings of the Second IASTED International*

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Multi-Conference Signal and Image Processing (ACIT-SIP), June 20-24, 2005, Novosibirsk, Russia, 164-169.

B.A. Rozanov, **G.V. Tcheslavski**, 1999, "Two-step Algorithm of Detection and Estimation In Radar Station With Long Sounding Signals," BMSTU Herald, series "Design of Devices", #4. (In Russian).

**G.V. Tcheslavski**, 1999, "Millimeter Band Radar Station with Long Sounding Signals," 4<sup>th</sup> International Conference of Students on Fundamental Sciences "Lomonosov' 99". Moscow State University, April 20-23. (In Russian).

B.A. Rozanov, **G.V. Tcheslavski**, 1998, "On Energy Potential of Millimeter-Wave Radar" MSMW'98 Symposium Proceedings. Kharkov, Ukraine, September 15-17. (In English).

- B.A. Rozanov, **G.V. Tcheslavski**, 1997, "Signal Processing in Radar Station with Quasi-continuous Emission" BMSTU Herald, series "Design of devices" #4. (In Russian).

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