

CURRICULUM VITAE

Levan Shoshiashvili

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Applied electromagnetism, Heat exchange phenomena, Bioelectromagnetism, Modeling and visualization

Research Interests

Education

№	Years	Name of the University/Institute, Country	Academic Degree	Major / Specialty
1	1986-93	TSU	Master	Physics
2	2006	TSU	Cand. Of Phys. Math Science, acad doctor	Physics. Radiophysics

Work Experience

№	Years	Position	Department / Unit	Organization
1	1992-95	Laborant	Phys.Dep.Chair of Gen.Phys.	TSU
2	2001-09	Sci.Resercher	Lab. Of Applied Electrodynamics	TSU
4	2008-12	Sci.Resercher	Dep.of Biocybernetics	Ins.of Cybernetics
5	2009--- up to now	Assistant Professor	Dep. Of Electronics and Elec. Engineering	TSU

Participation in Research Projects (over the last 5 years)

№	Years	Position / Responsibility	Project Title	Donor Organization
1	2015-17	Sci. Researcher	Near Infrared Irradiation Based Novel Medical Device for Visualization and Diagnostics of the Prostate Cancer at the Early Stage of its Development	Shota Rustaveli Natioanal Science Foundation
2	2013-15	Co-Leader	Cancer Treatment Using Nano-Particles: Understanding Hyperthermia at Cell-level	SR NSF

3	2012-13	Manager. Project leader	GeoTeX-Support of georgian language in TeX	GNSF
4	2010-13	Sci. Researcher	Study of influence Electomagnetic fields used in GSM 1800 on single neuron	GNSF
5	2008-10	Programmer	Development of the Network Infrastructure at R&E Center and Mod of Distance Learning at TSU	NATO

List of Publications in the International Peer Reviewed Journals (over the last 5 years)*

№	Publication Title	Journal title, series, volume issue (publication date): page(s) or, book / monograph title, edition #, series publisher, city, year published
1	Mitigation of eddy current heating during magnetic nanoparticle hyperthermia therapy	International Journal of Hyperthermia, 32:7, 735-748, 2016, DOI:10.1080/02656736.2016.1195018
2	Effect of high SARs produced by cell phone like radiofrequency fields on mollusk single neuron	Electromagnetic biology and medicine 32 (1), pp.48-58 , 2013
3	Acute effect of exposure of mollusk single neuron to 900-MHz mobile phone radiation	Electromagnetic biology and medicine 30 (3), pp.170-179 , 2011
4	Infrared light enables visualization of the prostate carcinoma after radical prostatectomy	<i>Oncol Discov.</i> 2016; 4:2. http://dx.doi.org/10.7243/2052-6199-4-2
5	Infrared transillumination detection of prostate carcinoma in vitro	Journal of Cancer Science and Therapy. 2016, 8 (9). DOI: 10.4172/1948-5956.C1.084

Participation in International Forums/Conferences (up to 5 events)

№	Year	Event title	Venue	Presentation title
1	2014	Direct and Inverse Problems of Electromagnetic and Acoustic Wave Theory (DIPED), 2014 XIXth International Seminar/Workshop	Tbilisi, Georgia	Bio heat equation modeling on macro and micro scales
2	2010	6th International Workshop on Biological Effects of Electromagnetic Fields	Turkey	Influence of Radiofrequency EMF Short Term Exposure on Neuron Habituation to Intracellular Stimulation

3	2009	DIPED	Lviv, Ukraine	Diferent Effects of the Extremally low frequency magnetic fields on neurons action potential and synaptic habituation
4	2008	Euroem 2008 European Electromagnetics, 21-25 July 2008, Swiss Federal Institute of Technology (EPFL)	Lausanne, Switzerland	Influence of SAR Averaging Schemes on the Correlation with Temperature Rise in the 30-800 MHz Range
5	2007	Bioelectromagnetics Society 29th Annual Meeting	Kanazawa, Japan	Study Of Cell Phone Irradiation Effects On The Mollusk Single Neuron Habituation.

Created Programs:

1. **GeoTex** Georgian language support for TeX/
<https://www.ctan.org/author/shoshiashvili?lang=en>
2. **EMagRE** Modeling of Heat exchange phenomena(EM modeling- work on progress)
<http://lshoshia.science.tsu.ge/index.php?module=pages&type=user&func=display&lang=en&pageid=12>
3. **ImSeg** Image Segmentation and analysis (developed in “Near Infrared Irradiation Based Novel Medical Device for Visualization and Diagnostics of the Prostate Cancer at the Early Stage of its Development” project. Work in progress)
<http://lshoshia.science.tsu.ge/index.php?module=content&type=user&func=view&lang=en&pid=6>