

Jelena Vasiljevic

ePortfolio: www.jelenavasiljevic.com mob: 0432 564576 email: jelena@jelenavasiljevic.com
Address: PO Box 3082 Manuka ACT 2603

Ph.D, MsC, BsC o f electrotechnical engineering

Key Skills

- Ph.D in area of Medical Imaging Cancer Detection
 - Demonstrated ability for independent research
 - Excellent skills to communicate complex information in an easily understandable manner
 - Computer programming proficiency and some molecular biology laboratory experience
 - High level laboratory skills including experience using Multifractal Analysis, Mycroscope, Camera, Coolscope
 - Excellent analysis skills with high attention to detail especially in Medical Imaging, Cancer research, Medical Diagnostic, Artificial Intelligence, Nanotechnology
 - Demonstrated Creativity in Research as well as Communication, Adaptivness, Organisational and Team Ledership Skills
 - Creative and interesting approach in conducting lectures on Faculty of Computer Science
 - Working with other people, in multicultural environments, in positions where communication is important and situations where teamwork is essential
 - Coordination and administration of people, projects and budgets
-

Recent Awards and Achievements

Invited Talk

University of Sydney, ImageX Institute, Sydney, Australia
September 2019.

Invited Talk,

UNSW, Medical Imaging Department, Sydney, Australia
September 2019.

In Semi final World Innovation Competition in Chinna November 2017. ,Bejing
Honoured Lecturer

Top ten Ph.D from Serbia in past several years, awarded by: Centar for Promotion of Science
June 2016, Belgrade – Serbia;

The Best Researcher in 2014, awarded by Institute Mihajlo Pupin.
Dec 2014, Belgrade – Serbia;

First Prize Award – Medident at International Medical Fair 2014 for Project for Cancer Diagnostic
Oct 2014, Belgrade – Serbia;

Special Award on International Technical Fair, for PhD work in the area of Cancer Image Detection
May 2014, Belgrade – Serbia;

One of top ten women 2014, awarded by Magazine Blic Women
January 2015 Belgrade - Serbia

Female Hero , awarded for Projects in Medical Image Cancer Detection Research
8th March 2015, Belgrade – Serbia;

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Listed in Oxford Encyclopedia – under Succesfull People of Serbia;

Media: Multiple reports in media (TV and newspapers) as one of the best medical improvements applying technology in cancer diagnostics.

Science Incubator, <https://fet-eye.eu/siss-2014>

Position: Delegate **One of ten best EU proposals**

Place: Metz, France

Date: August 2014

In final of Competition for The Best Innovation 2006

In Semi- finale of Belgrade Venture Forum 2016.for best Innovation

In Final of ICT Hub competition for investments for Innovation 2017.

Education

PhD in Digital Image Processing (Application of Multifractal analysis in cancer diagnostic),

Faculty of Electrical Engineering, University of Belgrade, Department of Telecommunication - Serbia

PhD Awarded in July 2012, The best score for Ph.D thesis

MSc Degree (Magisterium-science status) in electrotechnical sciences

Faculty of Electrical Engineering, University of Belgrade, Department of Telecommunication - Serbia

MSc Awarded in November 2006, The best Score 10 on all Master subjects and Master thesis

University degree BSc of Electrical Engineering

Faculty of Electrical Engineering, University of Belgrade, Department of Telecommunication - Serbia

Graduated in July 2000

Grammar School Diploma

Grammer School for Mathematics & Computer Programming, Belgrade – Serbia

Professional Experience

Associate Professor of Electrotecnics, Electronics and Telecommunications

Senior Lecturer of Intelligent Systems

School of Computing, Union University, Belgrade, Serbia (<http://raf.edu.rs/en/>)

December 2018– ongoing

Senior Lecturer of Intelligent Systems

School of Computing, Union University, Belgrade, Serbia (<http://raf.edu.rs/en/>)

October 2013 – until December 2018

Main responsibilities:

My responsibilities are split between conducting work as a Senior Lecturer for PhD, Master and Primary Studies as following: (1) Professor of Analysis and Making Genetic sequences - PhD studies. (2) Professor of Bionformatics, Robotics(one year), Neural Networks, Fuzzy Logic and Knowledge Based Systems - Master Studies. (3) Professor of Intelligent Systems (Artificial Inteligence), Genetic Algorithms, Robotics - Primary Studies.

Duties:

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- Conducting lectures for many students (over 140 students and over 150 lectures)
- Supervising research work (PhD, Master Studies and Primary Studies)
- Completing administrative work required for student assents and Faculty compliance
- Mentoring and supervision of students to achieve their Masters and Bachelor Degrees

Achievements:

- Excellent results in research work supevising students on PHd, Master and Primary studies, about 150 students per year.
- Motivating best students to acomplish their highest potential in science and encouraging them to develop their ideas and talents to inovations
- Successful mentoring on PhD Studies for almost twenty Master and Bachelor Degrees
- Conducting lectures and studies in Artificial Intelligence and all subjects the most interesting, motivating students to find and develop their talents in Science and research work

Research Gate (RG) Statistics:

RG Score **13.78**
Reads **1022**
Citations **44**
h- indeks: 4

Scientific Associate (in the election process for Higher Science Associate position)

“Mihajlo Pupin” Institute, Belgrade, Serbia (<http://www.pupin.rs/en/>)

Sep 2000 - ongoing

Main responsibilities:

Reporting to General Manager and working on scientific & research projects related to various scientific issues, including:

- Digital Image Processing (Application of Multifractal analysis in cancer diagnostic);
- Telecommunications (developing more devices and software in the field of telecommunications research interests include medical image analyzing);
- Biomedical Engineering (with practical and useful application in health improvement);
- Managing research supported by government development grants with budget size over 400,000 e annual (per each project, and there are two usually per year)

Duties:

- Demonstrated experience in Computer Science, progamming in C, C++, Visual C++, C#, Visual C3.NET, ASP.NET, SQL, Matlab, software for multifractal analysis and for statistical analysis;
- Training end-users about deployed software applications developed and customised for supervision of teleprotection equipment (VF equipment).
- Medical Imaging (microscopic, Magnetic resonance , ultrasound, images of skin) Cancer Detection

Achievements:

- Published research paper in the **World top journal** - Biomedical Microdevices. Based on this I received invitation to conduct new research on breast cancer dignostics by applying multifactal analysis on biopsy microscopic images;
- Session Chair and Invited Speaker on the whole Conference of Advanced Computer Science & Information Technology (ACSIT 2016): <http://acsit2016.org/>, in Zurich, Switzerland, June 2016 , again January 2017, January 2018, in Copenhagen on April 2018 and June 2018, and in Vienna on May 2018.
- Vice Chair on WSEAS Conference in Florence - Italy, November 2014
- Project for Cancer research **among ten best in Europe** on Eye Conferences 2014, Science Incubator, <https://fet-eye.eu/siss-2014>, in Metz – France, August 2014,

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- Published two more papers in World top journals, increased citations, many proposals for projects and collaborations
- Several government grant projects

Research Team Coordinator

IMP Telecommunications in "Mihajlo Pupin" Institute, Belgrade, Serbia (<http://www.imptelecom.com/>)
From 2011 to 2013

Main responsibilities:

Reporting to Director of Department for Telecommunication, Supervising Science Research Team, people, budget

Duties:

- Team administration
- Coordinating project resources
- Data analysis
- Document Management
- Producing reports for management
- Stakeholder Management (internal & External)
- organizing weekly time schedule for team
- managing time and duties of all colleagues from team

Achievements:

Excellent organized schedule for the whole team

Good communication between all parts of team and making synergy between their possibilities and duties

Other Employment

Technical Adviser (TA) for Digitalisation

Eagle Space Group (<http://www.eaglespacegroup.com/site/management.html>)
July 2016 - current

Main responsibilities:

Reporting to Director with main responsibilities in providing technical consultancy for ICT infrastructure project in the field of digital technology integration and delivery.

Duties:

- Assessment and gap analysis of technology offering;
- Strategy formulation and stakeholder consultation;
- Project development and team capacity building;
- Strategic Communication and Planning
- Evaluation and performance indicator development; and
- Project audit and reporting for funding bodies.

Editor in Chief for Computer Applications: International Journal, July 2016

<http://airccse.com/caij/index.html>

Duties:

- managing all the day-to-day operations of the academic journal;

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- overseeing all of the assistant, or department, editors of a publication; and
- ensuring each issue is released on time.

Member of Research Team - for Fractals (Physics) and Genetics
Research Station Petnica, Valjevo - Serbia
1991 – 1993

Duties:

- Science research in genetic laboratory
- Research about fractals and genetic and making fusion from knowledge and laboratory experiments

Achievements:

- Excellent results in science research
- Achieved high knowledge about physics and biology with practical applications in research

Technical Leadership in TV Studio

Yu Info TV Channel, Belgrade, Serbia
Apr 2000 to Sep 2000

Main responsibilities:

Supervising all technical aspects of delivering TV program

Duties:

- Supervising the whole technical team of 10 people
- Managing TV program and making all works appropriate and on time
- Engaging internal stakeholders
- Attending and contributing at team meetings

Publications in World top Journal, on SCI list

Jelena Vasiljević, Branimir Reljin, Jelena Sopta, Vesna Mijučić, Goran Tulić, Irini Reljin
Title: Application of Multifractal Analysis on Microscopic Images in the Classification of metastatic Bone Disease
Journal: Biomedical Microdevices, Springer, 2012,
DOI 10.1007/s10544-012-9631-11.

Jelena Vasiljević, Jelena Pribić, Ksenija Kanjer, Wojtek Jonakowski,
Jelena Sopta, Dragica Nikolić-Vukosavljević, Marko Radulović
“Multifractal analysis of tumour microscopic images in the prediction of breast cancer chemotherapy response”
DOI <https://doi.org/10.1007/s10544-015-9995-0>
Journal: Biomedical Microdivices, Spinger, October 2015
Link: <http://link.springer.com/article/10.1007%2Fs10544-015-9995-0>
Print ISSN 1387-2176
Online ISSN 1572-8781
First Online: 25 August 2015
Volumen 5 pages
Link: <http://link.springer.com/article/10.1007%2Fs10544-015-9995-0>

Ksenija Kanjer, Zora Nešković-Konstantinović, Dragica Nikolić-Vukosavljević, Jelena Pribić, Marko Radulović,
Vasiljevic Jelena, Milosevic Nebojsa, Fractal dimension and lacunarity of tumor microscopic images as prognostic indicators of clinical outcome in early breast cancer,

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Biomarkers in Medicine, Future Science Group, vol. ahead of print, no. ahead of print, pp. online on 19 Nov 201 - online on 19 Nov 2015, issn: 1387-2176 (Print) 1572-8781 (Online), udc: , DOI: 10.2217/bmm.15.102, , 2015., 21 strana

Goran Djuricić, **Jelena Vasiljević**, Dušan Ristić, Relja Z.Kovačević, Dalibor V.Ristić, Nebojša Milošević, Marko Radulović, Jelena Sopta,
“Prediction of Chemotherapy Response in Primary Osteosarcoma by Use of the Multifractal Analysis of Magnetic Resonance Images”
Iranian Journal of Radiology, february 2018
DOI: 10.5812/iranjradiol.57623
Pages 7

Journal [Sensors](http://www.mdpi.com/journal/sensors) (ISSN 1424-8220)
Manuscript ID sensors-584902
Type Article
Pages 16
Title

Lazar Berbakov , Čarna Jovanović , Marina Svetel , Jelena Vasiljević , Goran Dimić , Nenad Radulović
Sensors Journal, publisher MDPI,
Impact Factor 3,031,Open Access (<https://www.mdpi.com/journal/sensors>).
Title: Head Tremor in Patients with Essential Tremor and Cervical Distonya by using Inertial Sensors

Conferences & Expos, Journals

Conferences

7th International Conference on Computational Science and Engineering (CSE 2019), Copenhagen, Denmark, April 2019

<https://cse2019.org/index.html>

Position: Invited Speaker&Session Chair

8th International Conference on Advanced Computer Science and Information Technology (ICAIT 2019), Zurich, Switzerland, March 2019

<https://itcse2019.org/icaait/index.html>

Position: Invited Speaker

10th International Conference on Networks & Communication (NeCoM 2018): Copenhagen, Denmark

<http://airccse.org/csit/V8N87.html>

<https://airccj.org/CSCP/vol8/csit88707.pdf>

Position: Invited Speaker&Session Chair

DOI : 10.5121/csit.2018.80707

7th International Conference on Information Technology Convergence and Services (ITCSE 2018), Vienna, Austria, April 2018

<http://airccse.org/csit/V8N89.html>

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<https://airccj.org/CSCP/vol8/csit88908.pdf>

Position: Invited Speaker&Session Chair
DOI : 10.5121/csit.2018.80908

4th International Conference on Image Processing and Pattern Recognition (IPPR 2018), Copenhagen, Denmark, April 2018

<http://airccse.org/csit/V8N85.html>

Invited Position: Invited Speaker&Session Chair
DOI : 10.5121/csit.2018.80514

11th International Conference on Security and its Applications (CNSA 2018), Zurich, Switzerland, January 2018

<https://airccj.org/CSCP/vol8/csit88107.pdf>

Position: Invited Speaker&Session Chair
DOI : 10.5121/csit.2018.80107

5th Conference of Advanced Computer Science & Information Technology (ACSIT 2017), Sydney, Australia, June 2017

<http://airccj.org/CSCP/vol7/csit77004.pdf>

DOI : 10.5121/csit.2017.70804

2nd International Conference on Computer Science, Information Technology and Applications (CCIST 2017), Zurich, Switzerland, January 2017

<https://airccj.org/CSCP/vol7/csit76322.pdf>

Position: Invited Speaker&Session Chair
DOI : 10.5121/csit.2017.70122

Conference of Advanced Computer Science & Information Technology (ACSIT 2016), Zurich, Switzerland, Jun 2016

<http://airccj.org/CSCP/vol6/csit65506.pdf>

Position: Session Chair
DOI : 10.5121/csit.2016.60806

International Conference on Pure Mathematics - Applied Mathematics (PM-AM 2015), Vienna, Austria March 15-17, 2015

Jelena Vasiljevic, Jelena Pribic, Ksenija Kanjer, Wojtek Jonakowski, Jelena Sopta, Dragica Nikolic Vukosavljevic and Marko Radulovic "Prediction and evaluation of response to breast cancer chemotherapy by use of multifractal analysis", WSEAS Conference Cambridge (Vienna) 2015., pg. 290 – 294.,

<http://www.inase.org/library/2015/vienna/MAPUR.pdf>

<https://pdfs.semanticscholar.org/f59e/5597420241dfc918b2561ec797008d113cb7.pdf>

Proceedings "New Developments in Pure and Applied Mathematics"

<https://www.semanticscholar.org/paper/Prediction-and-evaluation-of-response-to-breast-by-Vasiljevi%C4%87-Pribic/f59e5597420241dfc918b2561ec797008d113cb7>

3rd International Conference on Circuits, Systems, Communications, Computers and Applications (CSCCA '14), Florence, Italy, November 2014

Position: Vice-Chair Person in the Opening of the Conference
* Short Welcome Speech during the Opening of the Conference

Science Incubator, Metz, France, August 2014

<https://fet-eye.eu/siss-2014>

Position: Delegate (one of the best EU project authors in Europe)

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The Blue Sky Conference in Budapest, 17-19 June (FP7/FET EYE), Budapest, Hungary, Jun 2014

<http://europlan-uk.eu/eng/news=80>

Position: Presenter

WSEAS Conference Geneva 2014.

Jelena Vasiljevic, Wojtek Jonakowski, Jelena Sopta, Ksenija Kanjer, Jelena Pribic, Dragica Nikolic Vukosavljevic and Marko Radulovic "Prediction of sensitivity to breast cancer chemotherapy by use of multifractal analysis"

ISBN: 978-1-61804-266-8

Pages: 197 – 202, Volumen: 6

<http://www.wseas.us/e-library/conferences/2014/Geneva/ELECTR/ELECTR-29.pdf>

22nd TELECOMMUNICATIONS FORUM, International Conference Telfor 2014., Belgrade, Serbia

Aleksandar Stančić, Marija Prokopijević, i **Jelena Vasiljević**, "Software for application in multifractal analysis for classification of metastasis bone tumors as per primary cancer classification",

<http://2014.telfor.rs/files/PROGRAM-TELFOR2014.pdf>

Conference in Cambridge, February 2013.

Lamberto Tronchin, Valerio Tarabusi, University of Bologna, **Jelena Vasiljevic**, Institute "Mihajlo Pupin", University of Belgrade "Applying signal processing in the auralization of musical pieces for subjective evaluation",

<http://www.wseas.us/e-library/conferences/2013/CambridgeUK/ELSINA/ELSINA-00.pdf>

WSEAS Conference Malta, 2012.

Lamberto Tronchin, Kristian Fabbri, **Jelena Vasiljević** "New DSP to measure acoustic efficiency of road barriers. Part 2: Sound Insulation Index"

ISSN: 1790-5117, ISBN: 978-1-61804-119-7 pg. 41-46

<http://www.wseas.us/e-library/conferences/2012/Sliema/SENVIS/SENVIS-00.pdf>

8th conference on Signal, Speech and Image Processing, Santander, Cantabria, Spain, September 2008

Jelena Vasiljevic, Natasa Zivic, Branimir Reljin, Vladimir Celebic and Iva Salom

Position: Presenter

https://www.researchgate.net/publication/234784900_Classifications_of_digital_medical_images_with_multifractal_analysis

Journals

e-RAF Journal on Computing (e-RAF JoC), February 2018.

Aleksandar Pluskoski, Igor Ciganovic, Jelena Vasiljevic, Sladjan Kantar "Algorithms for identification of primary tumors based on microskolic images of metastasis in bones"

https://raf.edu.rs/erac-journal-on-computing/aktuelni-volumen-naucni-radovi/item/download/80_94e216cb3dcb3e370e0ec6c943e78e7b

International Journal of Computer Science & Information Technology, 2017.

<http://airccj.org/CSCP/vol7/csit77004.pdf>

DOI : 10.5121/csit.2017.70804

e-RAF Journal on Computing (e-RAF JoC). February 2015

A. Stancic, **Jelena Vasiljevic**, M. Prokopijevic , "Software for application in either multifractal analysis or classification of metastasis bone tumours",

Pages: S18 - S27, Volumen 10

https://raf.edu.rs/erac-journal-on-computing/arhiva/item/download/64_07fdbe9eba67432ebe7e13750b11383c

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e-RAF Journal on Computing (e-RAF JoC), September 2014

Nural network for classification of metastasis bone tumours by the primary cancer classification

M. Prokopijević, **J. Vasiljević**

https://raf.edu.rs/erac-journal-on-computing/arhiva/item/download/60_53d95892e07d885b2f3dea2d6fc3a831

Monography : „The Application of Artificial Intelligence Tools in Cancer Diagnostic“ – author Jelena Vasiljević, ISBN 978-86-7991-410-1, Publisher – CET, (In Serbian - Primena alata veštačke inteligencije u dijagnostici karcinoma)

CIP - 616-006.04-07:004.891 004.8

Expos

International Medical Fair, Belgrade, Serbia, October 2014

Position: Opening Speech & The First Award

International Technical Fair

Position: Presenter

Place: Belgrade, Serbia

Date: May 2014

Invited Talk

**University of Sydney, ImageX Institute, Sydney, Australia
September 2019.**

Invited Talk,

**UNSW, Medical Imaging Department, Sydney, Australia
September 2019.**

Technology

Software: I have a lot of experience in **Computer Science**, programming in C, C++, Microsoft Visual C++, C#, Visual C#.NET, ASP.NET, SQL, Matlab, software for Multifractal Analysis Statistical software (DTREG, SPSS, MathLab).

Other Interests

- Cultural, Folk & Latino Dance
 - Member of swimming team for Faculty of Electrical Engineering, University of Belgrade
 - Awarded member of sports team for Institute Mihajlo Pupin (swimming, athletics, volleyball and basketball) on several sports competitions
 - Active in community group for art drawing, creative writing, singing
 - Fast reading, NLP, Maps of Mind, Quantum Medicine, Theta
 - Interest in alternative medicine as Healing Practitioner
 - Drivers Licence since 1992
-

Languages

English (Fluent)

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German (Good)

French (Good)

Spanish (Basic)

Italian (Basic)
