PERSONAL INFORMATION

Name and surname	Lazar Dašić
Date and place of birth	1999., Kragujevac
Scientific title	Junior Research Assistant
E-mail	lazar.dasic@kg.ac.rs
Educational-scientific / educational-artistic field	Technical and technological sciences
University, Faculty, Organizational unit	University of Kragujevac, Institute for Information Technologies, Department of technical and technological sciences
Research field and areas	Electrical Engineering and Computer Science, Artificial Intelligence

EDUCATION

BACHELOR

Year	2017 – 2021
Place	Kragujevac
Institution	Faculty of Engineering, University of Kragujevac

MASTER STUDIES

Year	2021 - 2022
Place	Kragujevac
Institution	Faculty of Engineering, University of Kragujevac

DOCTORAL DISSERTATION

Year	2022 -
Place	Kragujevac
Institution	Faculty of Engineering, University of Kragujevac
Title of doctoral dissertation	

Scientific title	
Research area	Electrical Engineering and Computer Science

PROFESSIONAL BIOGRAPHY – ELECTION IN RESEARCH OR SCIENTIFIC TITLE

Date	Institution	Scientific title
25.11.2022.	Institute for Information Technologies, University of Kragujevac	Junior Research Assistant

PROFESSIONAL BIOGRAPHY - TRAINING

Year	Institution	Duration
2022.	Technical University of Liberec, Czech Republic	5 days

ENGAGEMENT IN THE FORMATION OF SCIENTIFIC PERSONNEL

PARTICIPATION IN NATIONAL PROJECTS FINANCED BY MINISTRY OF EDUCATION/MINISTRY OF SCIENCE AND TECHNOLOGICAL DEVELOPMENT/SCIENCE FUND OF THE REPUBLIC OF SERBIA:

PARTICIPATION IN INTERNATIONAL PROJECTS

MEMBERSHIP IN SCIENTIFIC AND PROFESSIONAL ASSOCIATIONS

ORGANIZATION OF NATIONAL/INTERNATIONAL SCIENTIFIC MEETINGS (CONFERENCES, CONGRESSES...)

LIST OF SCIENTIFIC PAPERS:

Monographs, Monographic studies, Thematic anthologies	**Sum**

Papers published in scientific journals of international scientific importance	**Sum** 2

1. **Dašić L.,** Radovanović N., Šušteršič T., Blagojević A., Benolić L. and Filipović N. (2022). Patch-based Convolutional Neural Network for Atherosclerotic Carotid Plaque Semantic Segmentation, IPSI Transactions on Internet Research, Vol.18, No.1, pp. 58-63, ISSN 1820-4503
2. Radovanović N., **Dašić L**., Blagojević A., Šušteršič T. and Filipović N. (2022). Carotid Artery Segmentation Using Convolutional Neural Network in Ultrasound Images, IPSI Transactions on Internet Research, Vol.18, No.1, pp. 46-51, ISSN 1820-4503

Proceedings of international scientific conferences	**Sum** 4

1. **Dašić L.** and Filipović N. (2022). Liver Tracking for Intraoperative Augmented Reality Navigation System, First Serbian International Conference on Applied Artifical Intelligence, 19 – 20 May 2022, Kragujevac, Serbia
2. N. Radovanović, **Dašić L.** and Filipović N. (2022). SegNet Architecture Based Model for Carotid Artery Segmentation, First Serbian International Conference on Applied Artifical Intelligence, 19 – 20 May 2022, Kragujevac, Serbia
3. **Dašić L**., Blagojević A., Šušteršič T. and Filipović N. (2022). Comparative Analysis of Patch-based and Full Image Methodology of Carotid Artery Plaque Semantic Segmentation in Ultrasound images, 2022 IEEE-EMBS International Conference on Biomedical and Health Informatics (BHI), 27-30 September 2022, Ioannina, Greece
4. **Dašić L.** (2021). Forest Covertype Prediction based on cartographic parameters using neural network. Ri-STEM-2021, Rijeka, Hrvatska, pp. 141-145, ISBN 978-953-8246-22-7

Proceedings of national scientific conferences	**Sum**
Monographs of national importance	**Sum**
Scientific papers in national journals	**Sum**
Technical solutions	**Sum**
Patents	**Sum**

CITATION OF SCIENTIFIC PAPERS

BRIEF DESCRIPTION OF RESEARCH IN THE PREVIOUS PERIOD

In the previous period, the main focus of research was on the application of artificial intelligence and deep learning algorithms to medical imaging data. One of the goals was the creation of an automatic tool that would achieve semantic segmentation of different plaque components, by using neural networks on ultrasound imaging data of the carotid artery. Also, some of the research involved the usage of computer vision methods with the goal of creating an intraoperative navigation system for the liver resection.

BRIEF DESCRIPTION OF PLANNED RESEARCH IN THE NEXT PERIOD

Future planned research will involve the application and development of different artificial intelligence and deep learning methods with the goal of

solving a wide variety of problems in the field of biomedicine. This mostly involves the analysis of medical imaging data, the processing of biomarkers and other medical information.