

Date: 15-04-2021 Venue: Western Serbia Academy of Applied Sciences,
Trg Sv. Save 34, Uzice, Serbia (online)

Kick-off meeting

# The City of Ruse, the University of Ruse "Angel Kanchev" and our Project Team

Plamen Zahariev, Georgi Hristov, Nina Bencheva, Ivan Beloev, Diyana Kinaneva and Georgi Georgiev University of Ruse "Angel Kanchev", Ruse 7004, Bulgaria





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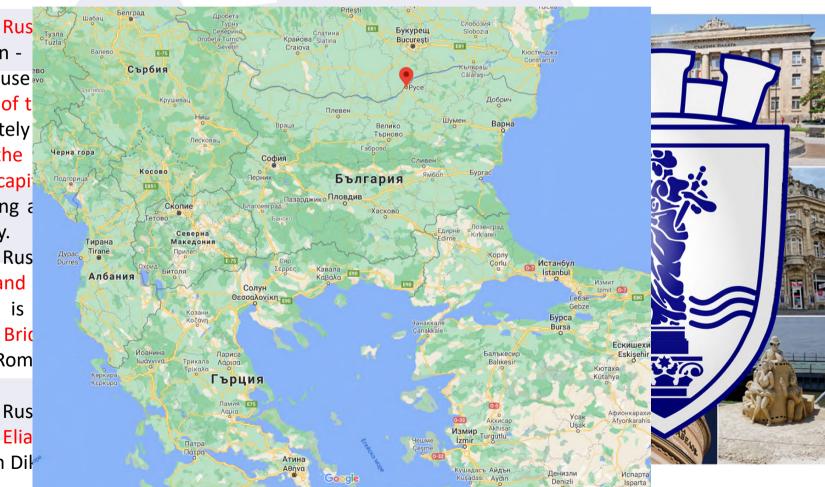


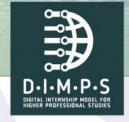
#### THE CITY OF RUSE

Rus
in Bulgarian Bulgaria. Ruse
right bank of t
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Bulgarian capi
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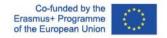
Baroque and tourists. It is Friendship Bric Bulgarian-Rom here.

Rus Literature Elia Arlen (born Dik









#### THE CITY OF RUSE

Ruse is famous for the many first innovations in Bulgaria, including:

- 1864 the first printing office in Bulgaria
- 1867 the first railway line linking Ruse and Varna, was launched into operation
- 1879 the first agronomical school "Obraztsov chiflik", today Agricultural scientific research institute.
- 1881 the first steel ship in Bulgaria was built
- 1881 the first privately owned Bulgarian bank "Girdap"
- 1881 the Machine School for the Navy, the first technical school in Bulgaria. Later it was moved to Varna.
- 1883 the first Weather station
- 1884 the first Bulgarian pharmacy association
- 1885 the first Bulgarian technical association was instituted
- 1890 the first Chamber of Commerce and Industry
- 1891 the first private insurance company "Bulgaria"
- 1896 the first manually operated elevator
- 1897 the first movie projection.
- Ruse had the first Bulgarian factories for soda water, lemonade and for neckties.
- The first Bulgarian aviator Simeon Petrov was born in Ruse.









#### THE CITY OF RUSE









#### THE UNIVERSITY OF RUSE "ANGEL KANCHEV"



The University of Ruse "Angel Kanchev" is an autonomous state higher school. It was transformed with a Decision of the People's Assembly of 21 June 1995 and is a successor of the higher technical school, established in Ruse on the 12 November 1945. There are eight faculties in the structure of the University: Agrarian and Industrial Faculty, Faculty of Mechanical and Manufacturing Engineering, Faculty of Electrical Engineering Electronics and Automation, Faculty of Transport, Faculty of Business and Management, Faculty of Natural Sciences and Education, Faculty of Law, Faculty of Public Health and Healthcare.

The University has three Branches - in Silistra, Razgrad and Vidin and is founder of the Bulgarian-Romanian Inter-university Europa Centre.







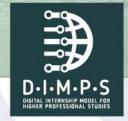


#### THE UNIVERSITY OF RUSE "ANGEL KANCHEV"

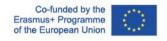
Around 10 000 students and doctoral degree students study in state-of-the-art study halls and research laboratories, spread on 67 490 sq m (of which over 13 000 sq m in Building 2, officially opened in 2010). The teaching staff consists of 499 highly qualified full-time lecturers, of whom 49 professors, 177 associate professors and 296 PhD lecturers.



<u>Virtual album for the 75<sup>th</sup> Anniversary of the University</u>







#### **OUR TEAM**



Assoc. Prof. Georgi Hristov, PhD



Assoc. Prof. Plamen Zahariev, PhD



Assoc. Prof. Nina Bencheva, PhD



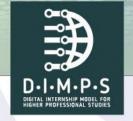
Assoc. Prof. Ivan Beloev, PhD

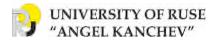


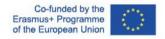
Senior Assist. Prof. Diyana Kinaneva, PhD



Eng. Georgi Georgiev, MSc







#### **SOME OF OUR PAST AND PRESENT PROJECTS**

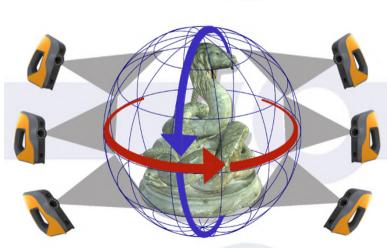
- 1. 2012-2015 "Strategic Alignment of Electrical and Information Engineering in European Higher Education Institutions (SALEIE)" 527877-LLP-1-2012-1-UK-ERASMUS-ENW, <a href="http://www.saleie.co.uk/">http://www.saleie.co.uk/</a>
- 2. 2013-2017 "Joint MSc in Electrical Engineering (JMEE)" 544644-TEMPUS-1-2013-1-UK-TEMPUS-JPCR, <a href="http://blogs.salford.ac.uk/jmee/project-teams/">http://blogs.salford.ac.uk/jmee/project-teams/</a>
- 3. Project ROBG-9 ARCHIVE Ancient roman cultural heritage interactive visualization environment for the cross border area between Bulgaria and Romania, Project code 15.2.1.038, INTERREG V-A Romania Bulgaria, <a href="http://interregrobg.eu/en/2-categorie-principala/128-15-2-1-038-archive.html">http://interregrobg.eu/en/2-categorie-principala/128-15-2-1-038-archive.html</a>
- 4. Project 2263 SFEDA Forest Monitoring System for Early Fire Detection and Assessment in the Balkan-Med Area, INTERREG V-B "Balkan-Mediterranean 2014-2020", <a href="http://www.interreg-balkanmed.eu/approved-project/22/">http://www.interreg-balkanmed.eu/approved-project/22/</a>
- 5. Project ROBG-499 LIVE Live, interactive and virtual environments for the museums of the lower Danube cross-border area between Romania and Bulgaria, INTERREG V-A Romania Bulgaria, http://www.interregrobg.eu/en/component/content/article/2-categorie-principala/458-robg-499.html
- 6. Project ASEAN FACTORI 4.0 (From Automation and Control Training to the Overall Roll-out of Industry 4.0 Across SouthEast Asian Nations) 609854-EPP-1-2019-1-FR-EPPKA2-CBHE-JP, <a href="https://factori-erasmus-project.eu/">https://factori-erasmus-project.eu/</a>







3D Scanning





















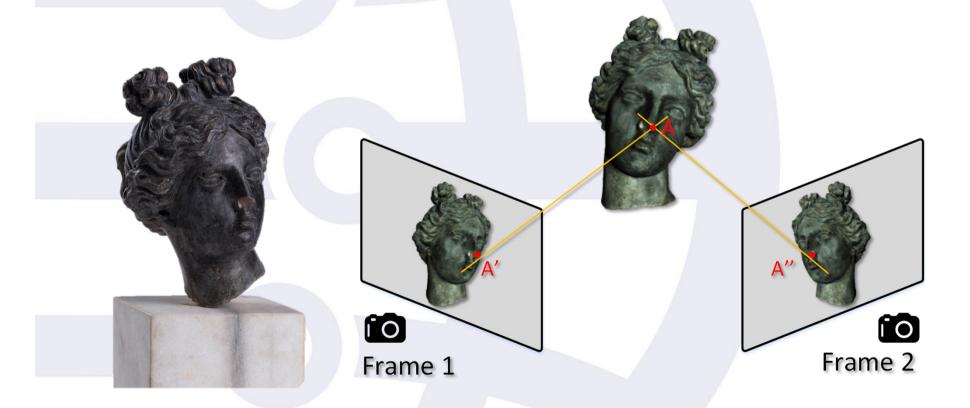








Photogrammetry







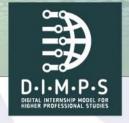


Photogrammetry





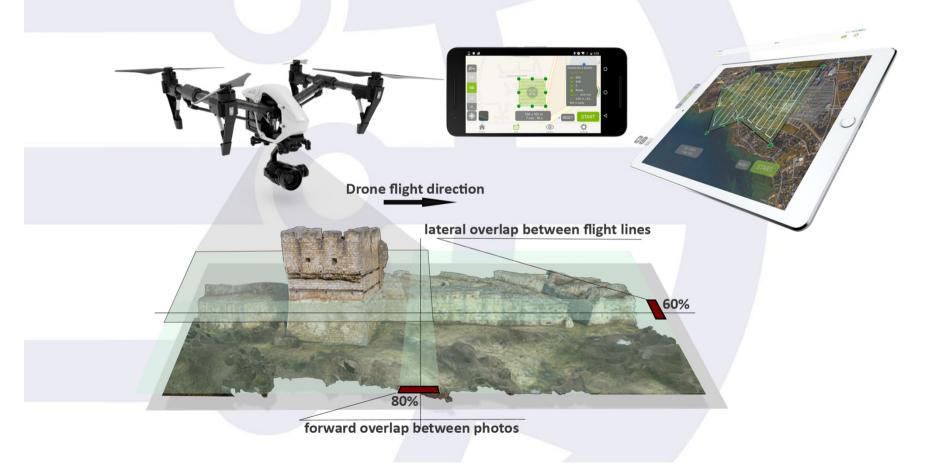






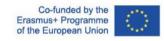


Digitalization of archaeological objects with drones









Digitalization examples







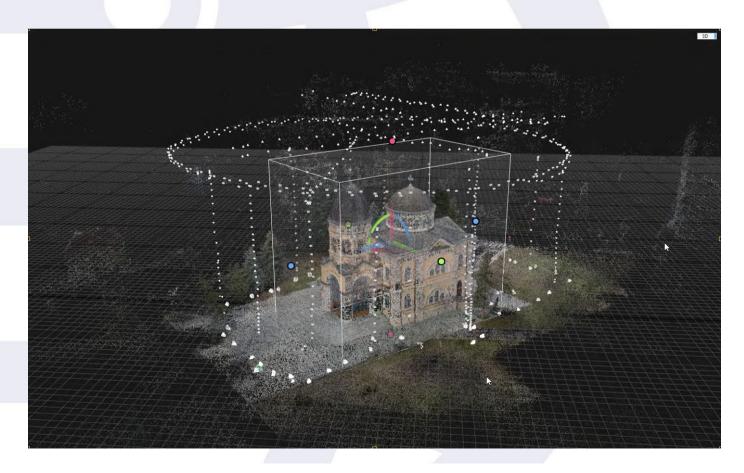








Digitalization examples









Digitalization examples

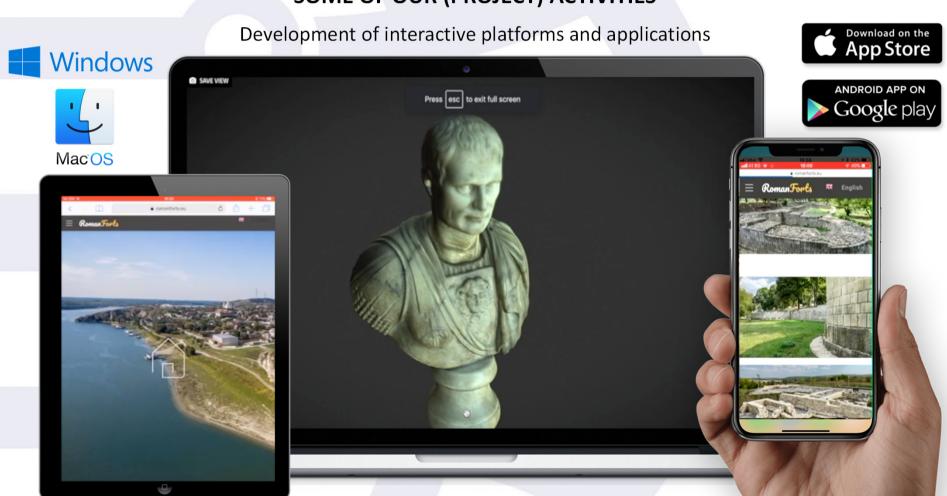


















3D Printing and use of additive technologies



















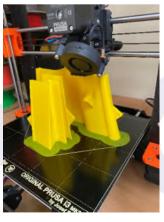


3D Printing and use of additive technologies

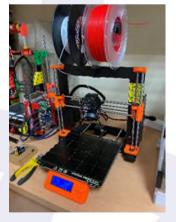


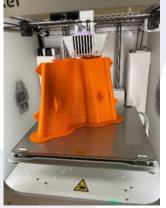








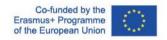










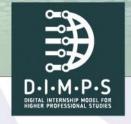


Development of products with Augmented Reality





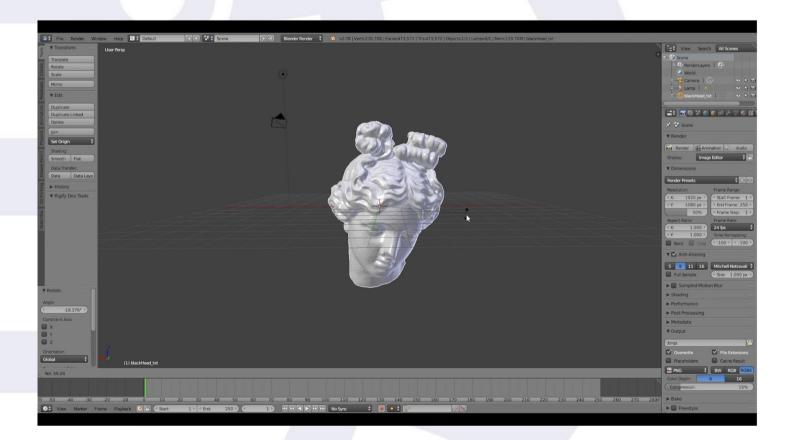








**Development of Virtual Reality solutions** 









Developments of interactive products and books



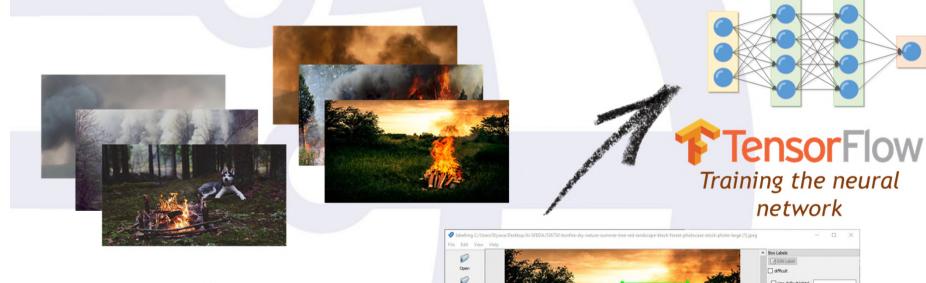




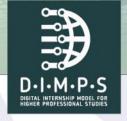


#### **SOME OF OUR (PROJECT) ACTIVITIES**

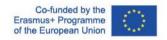
Early forest fire detection using computer vision and artificial intelligence



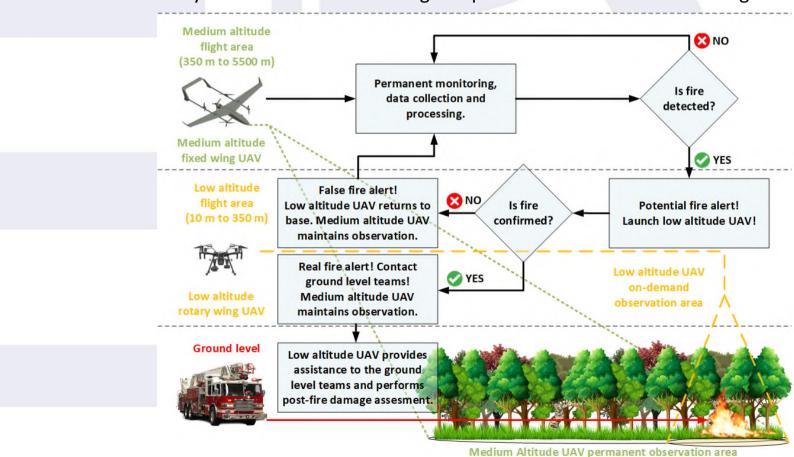
Preparing the input dataset - gathering and labeling images







Early forest fire detection using computer vision and artificial intelligence









Early forest fire detection using computer vision and artificial intelligence

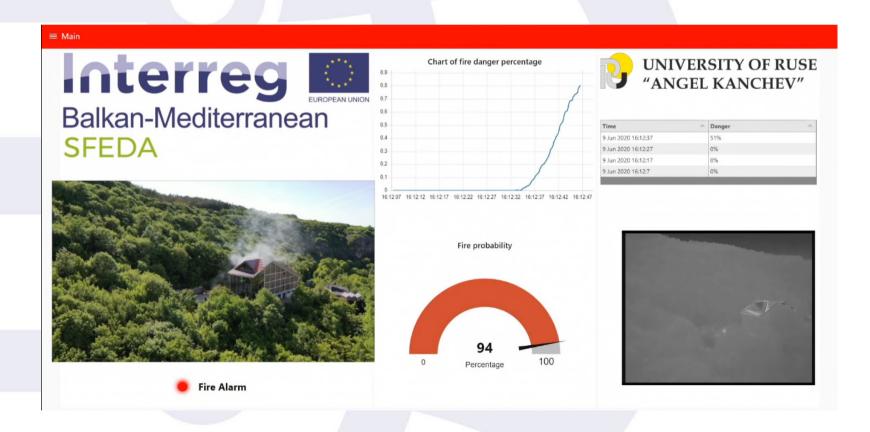








Early forest fire detection using computer vision and artificial intelligence









Educational and training events



















Educational and training events















# Thank you for your attention!

#### **Contacts**

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