

POLJOPRIVREDNI FAKULTET UNIVERZITET U NOVOM SADU PFNS DEPARTMAN ZA RATARSTVO I





DISPAA

DIPARTIMENTO DI SCIENZE DELLE PRODUZIONI AGROALIMENTARI E DELL'AMBIENTE



Universität für Bodenkultur Wien **boku**

DEPARTMENT FÜR WASSER-



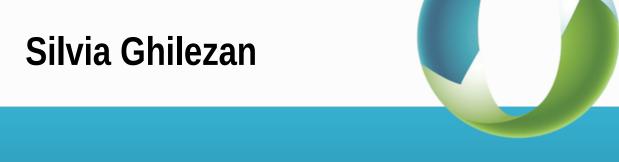
European Commission

Horizon 2020

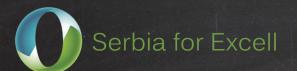
EUROPEAN UNION FUNDING FOR RESEARCH & INNOVATION

Workshop 2018

Doctoral School towards Knowledge Based Society



University of Novi Sad Faculty of Technical Sciences Serbia











HIGHER EDUCATION

Undergraduate education

Master's education

Doctoral education











DOCTORAL EDUCATION

- Markedly different
- Training and education through original research
- Based on rich tradition of doctoral education







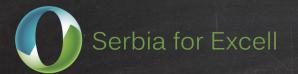




Higher Education Area

Research Area

DOCTORAL EDUCATION











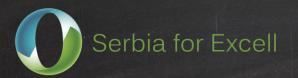
DOCTORAL EDUCATION IN THE XXI CENTURY

Reorganization of doctoral programme

Individual work focused on a specific topic

Structured programmes

Training in a wide range of transferable skills











SALZBURG RECOMMENDATIONS FOR DOCTORAL EDUCATION (2005 and 2010)

Advancement of knowledge through original research

Doctoral candidates as early stage researchers should be recognized as professionals

new practice of supervision, assessment and shared responsibilities

Rich diversity of doctoral programmes

Achieving critical mass

Duration

New challenges and professional career development opportunities

Salzburg recommendations

Ensuring appropriate funding

Increasing mobility

Interdisciplinary training with transferable skills













http://cms.uns.ac.rs/deuks/











DOCTORAL PROGRAMME "APPLIED MATHEMATICS"

- Focus of the programme:
 - Cutting-edge research
 - Interdisciplinary training
 - Application
 - Internationalisation
 - Mobility











INTERNATIONALISATION

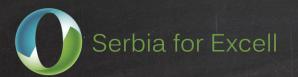
MOBILITY

- TEMPUS (6 students)
 - Universities: Udine, Nice, Valencia
- ERASMUS+
 - Universities: Paris 7, National Technical University of Athens
- ERASMUS+ (master)
 - University: Paris 7

INTERNATIONAL ASSESSMENT

JOINT DOCTORATES

- University of Nice (2008)
- University Paris 7
- many more to come











TAKING SALZBURG FORWARD

- New challenges:
 - Research integrity and research ethics
 - Digitisation, open science, big data, online learning
 - Global research synergy











Higher Education Area

Research Area

DOCTORAL EDUCATION











Higher Education Area

Research Area

DOCTORAL EDUCATION

Private and Public Sector





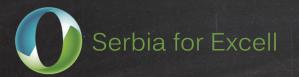






OPEN SCIENCE

- National Portal of Open Science (repository in preparation)
 http://www.open.ac.rs/
- Nation Platform for Open Science (legal document in preparation) -Law of Scientific and Technological Development
- Repository of public and private companies (in preparation)
- BEOPEN Erasmus+ (pioneer work in open science in Serbia)
 http://www.beopen.uns.ac.rs/





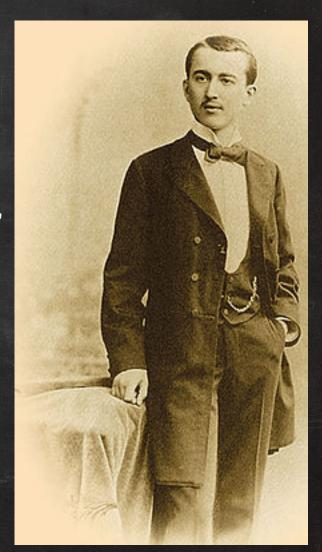






On en revient toujours

- Milutin Milanković (1879-1958)
 - Serbian mathematician, astronomer, climatologist, geophysicist, civil engineer and popularizer of science
 - The explanation of Earth's long-term climate changes
- Design of the sewerage system in Belgrade (around 1905)













US-SERBIA & WEST BALKAN DATA SCIENCE WORKSHOP

Belgrade, Serbia, August 26-29, 2018

https://nsfserbia.rs/

USA: NSF - National Science Foundation

Temple University

Serbia: Mathematical Institute SASA

Institute of Archaeology

Infinity

Ministry of Education, Science and Technological Development

Track 1: Data Science Foundation

Track 2: Data Science in Critical Infrastructures

Track 3: Biomedical Informatics

Track 4: Digital Archaeology

WELCOME!