

Project proposal title (up to 200 characters): A bioinformatics approach to dairy cattle breeding using genomic selection

Acronym (up to 20 characters): BioITGenoSelect

Name, father's/mother's name and family name: **Nebojša, Mišo, Dedović**

Principal Investigator (PI) or Participant: **Participant**

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Username in the base of researches of the Ministry responsible for scientific research: dedovicn@polj.uns.ac.rs

Name and address of the Scientific institution during the implementation of the Project and Scientific institution contact person: **Faculty of Agriculture, University of Novi Sad, Trg Dositeja Obradovića 8, 21101 Novi Sad, dr Snezana Trivunovic, full professor, snezana.trivunovic@stocarstvo.edu.rs**

BIOGRAPHY

- Date and place of birth: **June 27, 1972. Novi Sad, Serbia**
- Age: **47**
- Citizenship: **Serbian**
- Research field and area/areas (at most five): **Mathematics, Statistics, Applied mathematics, Partial differential equations**
- Education: bachelor, master and Ph.D. studies (university/faculty), degrees and corresponding fields, dates (years) of enrolment and graduation, titles of defended final papers/theses and average grades for all education levels:
University of Novi Sad, Faculty of Sciences, Novi Sad, Serbia
Bachelor in Mathematics, 1992-1996. (grade point average 8.63/10 max)
Master in Numerical mathematics, 1996-2004. (grade point average 9.50/10 max), “Numerical verification of singular shock waves at conservation laws”
PhD in Mathematical analysis, 2004-2014., Delta Shock Waves and Wave Front Tracking Algorithm.
- Name, family name and title of the Ph.D. thesis supervisor: **Marko Nedeljkov, full professor at Faculty of Sciences in Novi Sad.**
- Dates of appointments (researcher and scientific titles, i.e., equivalent titles in higher education):
Assistant professor 2014- present, Department of Animal Science, Faculty of Agriculture, University of Novi Sad, Serbia
Assistant: 2004-2014, Department of Agricultural Engineering, Faculty of Agriculture, University of Novi Sad, Serbia
Beginner assistant 1997 to 2004, Department of Agricultural Engineering, Faculty of Agriculture, University of Novi Sad, Serbia
- Employment history (institutions and to/from dates up to the day of the proposal submission):
 - 1. Secondary School “Pinki”: from 1996 to 1997.**
 - 2. Faculty of Agriculture: from 1997.**
- List of selected publications (up to five most important publications in the research field of the Project):
 1. Chaudhary Naveed Ishtiaq, Khan Zeshan Aslam, Zubair Syed, Raja Muhammad Asif Zahoor, **Dedovic N.** (2019): Normalized fractional adaptive methods for nonlinear control autoregressive systems. Applied Mathematical Modelling, 66: 457-471. ISSN: 0307-904X, doi.org/10.1016/j.apm.2018.09.028, IF: 2.841., M21.
 2. Kostić M., Rakić D., Radomirović D., Savin L., **Dedović N.**, Cnojević V., Ljubičić N. (2018): Corn seeding process fault cause analysis based on a theoretical and experimental approach. Computers and Electronics in Agriculture, 151: 207-218. ISSN: 0168-1699, doi.org/10.1016/j.compag.2018.06.014, IF: 3.171, M21
 3. Lazović G., Šešum-Čavić V., Mitrović S., Radojević S., **Dedović N.**, Chaudhary Naveed I. (2018): Safety Times for Multistage Assembly System. Mathematical problems in Engineering, Hindawi Ltd, 10, 10 pages. ISSN: 1563-5147, doi.org/10.1155/2018/8208049, IF: 1.179, M22.
 4. Trivunović S., Kučević D., Matić-Kekić S., **Dedović N.** (2011): Einfluss von Fortpflanzung und Selektion auf die Anzahl an Kühen und Kälbern in Milkvieh -und Mutterkuhherden. REKASAN 35/36: 93-96, ISSN 1437-3807, M25

5. Matic-Kekic S., **Dedovic N.**, Trivunovic S. (2011): The recursive formula for the number of cows in milk production. Contemporary agriculture, 60(1-2): 7-14. ISSN: 2466-4774.

- Citation number (excluding self-citations) from SCOPUS: **55**
- Hirsch index from SCOPUS: **5**
- Participant in the following national project:
 1. **Improvement of the quality of tractors and mobile systems with the aim of increasing competitiveness and preserving soil and environment**, No. TP-31046 project financed by the Ministry of Science and Technological Development of the Republic of Serbia, Technological development, 2011-2019.
 2. **Modeling the condition and structure of slope processes using GNSS and laser and geo-radar scanning technologies**, No. TP-37017 project financed by the Ministry of Science and Technological Development of the Republic of Serbia, Technological development, 2011-2019.
- Reviewing scientific journals and grants:
Nonlinear Dynamics, 2019, M21; Computers and Electronics in Agriculture, 2018, M21; Biosystems Engineering, 2016, M21.
- Skills and other facts relevant to the Project:
Knowledge of computer programs:
Mathematica, Statistica, MatLab – data analysis

Language:
Serbian, English

Other:
Mathematical modeling
- Link to database of researchers:
<https://orcid.org/0000-0002-4628-1405>
<http://knr.uns.ac.rs/imenikSvi.xhtml> Type in: Dedovic Nebojsa