

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: **Doni, Aleksandar, Pracner**

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

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<http://perun.pmf.uns.ac.rs/pracner/>

Username in the base of researches of the Ministry responsible for scientific research: doni.pracner@dmi.uns.ac.rs

Name and address of the Scientific institution during the implementation of the Project and Scientific institution contact person: **Faculty of Sciences, University of Novi Sad, Trg Dositeja Obradovića 3, Novi Sad, prof. Dr. Milica Pavkov Hrvojević, dean, dekan@pmf.uns.ac.rs**

BIOGRAPHY

- Date and place of birth: **December 4. 1984. Novi Sad, Serbia**
- Age: **34**
- Citizenship: **Serbia**

- Research field and area/areas (at most five): **Computer Science, Software Evolution, Software Engineering, Data Mining, Machine Learning**

- Education:
University of Novi Sad, Faculty of Sciences, Novi Sad, Serbia
PhD in Computer Science, 2019 (grade point average 10/10 max) “Translation and Transformation of Low Level Programs”
Master in Computer Science, 2010 (grade point average 9.8/10 max) “Structuring Assembly Code Using Formal Transformations”
Bachelor in Computer Science, 2003–2007 (grade point average 9.28/10 max) “Implementation of a textual interface for the educational software “Svetovid”

- Name, family name and title of the Ph.D. thesis supervisor: **Zoran Budimac, full professor**

- Dates of appointments (researcher and scientific titles, i.e., equivalent titles in higher education)
Research associate, Mar. 2019 – present, Department of Mathematics and Informatics, Faculty of Sciences, University of Novi Sad, Serbia
Teaching associate Jan. 2017 – Mar. 2019, Department of Mathematics and Informatics, Faculty of Sciences, University of Novi Sad, Serbia
Teaching assistant Nov. 2010 – Dec 2016, Department of Mathematics and Informatics, Faculty of Sciences, University of Novi Sad, Serbia
Research assistant, Oct 2007 – Nov. 2010, Department of Mathematics and Informatics, Faculty of Sciences, University of Novi Sad, Serbia

- Employment history (institutions and to/from dates up to the day of the proposal submission):
From 2007 Department of Mathematics and Informatics, Faculty of Sciences, University of Novi Sad, Serbia

- List of selected publications (up to five most important publications in the research field of the Project).
 1. **Pracner D.**, Budimac Z. (2017): Enabling code transformations with FermaT on simplified bytecode, J SOFTW-EVOL PROC, 29 (5) e1857-n/a. ISSN: 2047-7473 doi: 10.1002/smr.1857, IF 1.305, M22
 2. Tomašev N., **Pracner D.**, Radovanović M., Ivanović M. (2007): Automatic Categorization of Human-Coded and Evolved CoreWar Warriors, Knowledge Discovery in Databases PKDD 2007, Lecture Notes in Computer Science. Berlin, Heidelberg: Springer Verlag, 589–596. ISBN: 978-3-540-74975-2. doi: http://dx.doi.org/10.1007/9783-540-74976-9_62, IF 0.402, M23
 3. **Pracner D.**, Tomašev N., Radovanović M., Ivanović M. (2007): Categorizing Evolved CoreWar Warriors Using EM and Attribute Evaluation, Machine Learning and Data Mining in Pattern Recognition MLDM 2007, Lecture Notes in Computer Science. Berlin, Heidelberg: Springer-Verlag, 681–693. ISBN: 978-3-540-73498-7, doi: http://dx.doi.org/10.1007/978-3-540-73499-4_51, IF 0.402, M23
 4. Sukur N., **Pracner D.** (2018): Evaluating Fitness Functions for Automated Code Transformations,

SQAMIA 2018, 7th Workshop of Software Quality, Analysis, Monitoring, Improvement, and Applications, 18: 1-8. ISSN: 1613-0073, M33

5. **Pracner D.**, Tomašev N., Radovanović M., Mladenčić D, Ivanović M. (2011): WIKImage: Correlated image and text datasets, Proc. of the 14th International Multiconference on Information Society (IS 2011), 141–144. ISBN: 978-961-264-035-4, M33

- Citation number (excluding self-citations) from SCOPUS: **0**
- Hirsch index from SCOPUS: **2**
- Participant in the following national and international projects:
 - Intelligent techniques and their integration into wide-spectrum decision support**, No. 174023 Supported by Ministry of Science, Technologies and Development (Republic of Serbia), project period 2011 – 2014
 - Infrastructure for technology enhanced learning in Serbia**, 2011 – 2014 Supported by Ministry of Science, Technologies and Development (Republic of Serbia), project no. 47003
 - Multidimensional Quality Control for E-business Applications** Supported by the Ministry of Science and Technological Development Republic of Serbia and the Slovenian Research Agency, project period 2016 – 2017
 - Correlating images and words: Enhancing image analysis through machine learning and semantic technologies**, Supported by the Ministry of Science and Technological Development, Republic of Serbia and the Slovenian Research Agency, project period 2010 – 2011
 - Abstract Models and Applications in Computer Science**, No. 144017 Supported by the Ministry of Science Republic of Serbia, project period 2008 – 2010
- Awards:
 - “Aleksandar Saša Popović” faculty award for exceptional research work in the field of Computer Science (2007) <https://perun.pmf.uns.ac.rs/wiki/aleksandar-popovic/award/recipients>
- International scientific collaboration and mobility.
 - DAAD and Stability pact**
24. May – 6. June 2010 Germany, Berlin – Humboldt University, Faculty of Sciences II, Department of Computer Science research activities on the project “Software Engineering: Computer Science Education and Research Cooperation”
- Skills and other facts relevant to the Project.
 - Programming languages:** Java, Modula-2, Pascal, Python, Delphi, BASIC, PHP, C, C++, C#, LISP, Scheme, Perl, JavaScript, FermaT/WSL
 - Web and related technologies:** Apache web server, HTML, CSS, setting up servers from the ground up
Extensive knowledge of Latex and preparing electronic materials for printing
 - Language:**
Serbian, English
 - Other:**
Solid grasp of parsing data and converting between formats as needed.
Knowledge of Web technologies and standards needed for the publications of the results of the project.
Previously created open source tools for processing animal data.
- Links for reasearch pages:
 - <https://scholar.google.com/citations?user=cHtq7FsAAAAJ&hl=en>
 - <http://orcid.org/0000-0002-3428-3470>
 - <http://www.scopus.com/inward/authorDetails.url?authorID=23092047000>
 - <http://knr.uns.ac.rs/imenikSvi.xhtml> Type in: Pracner Doni