

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: **Laslo, Tibor, Tarjan**

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

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<http://www.ftn.uns.ac.rs/1417835181/laslo-tarjan>

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

Name and address of the Scientific institution during the implementation of the Project and Scientific institution contact person: **Faculty of Technical Sciences, University of Novi Sad, Trg Dositeja Obradovića 6, 21101 Novi Sad, prof. dr Rade Doroslovački, dean, ftndean@uns.ac.rs**

BIOGRAPHY

- Date and place of birth: **May 13. 1984. Novi Sad, Serbia**
- Age: **35**
- Citizenship: **Serbia**

- Research field and area/areas (at most five):
Mechatronics, Industrial Automation, Motion Control, Sensor Networks, Automatic Identification

- Education:
University of Novi Sad, Faculty of Technical Sciences, Novi Sad, Serbia
 - **PhD** in Mechatronics, 2015 (grade point average 10/10 max) “Increasing efficiency of linear actuators by applying FPGA based control”
 - **Integrated Bachelor and Master** in Mechatronics, robotics and automation, 2003-2008 (grade point average 9.46/10 max) “Manipulator with Pneumatic and Electric Conduction of Axis”

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

- Dates of appointments (researcher and scientific titles, i.e., equivalent titles in higher education)
 - **Assistant Professor**, Mar. 2016. – present, Chair of Mechatronics, Robotics and Automation, Department of Industrial Engineering and Engineering Management, Faculty of Technical Sciences, University of Novi Sad, Serbia
 - **Research Associate**, Aug. 2015. - Feb.2016., Chair of Mechatronics, Robotics and Automation, Department of Industrial Engineering and Engineering Management, Faculty of Technical Sciences, University of Novi Sad, Serbia
 - **Assistant – Master**, Sep. 2009. - Aug. 2015., Chair of Mechatronics, Robotics and Automation, Department of Industrial Engineering and Engineering Management, Faculty of Technical Sciences, University of Novi Sad, Serbia
 - **Teaching Associate**, Dec. 2008. - Sep. 2009., Chair of Mechatronics, Robotics and Automation, Department of Industrial Engineering and Engineering Management, Faculty of Technical Sciences, University of Novi Sad, Serbia

- Employment history (institutions and to/from dates up to the day of the proposal submission):
From 2008 – present: Chair of Mechatronics, Robotics and Automation, Department of Industrial Engineering and Management, Faculty of Technical Sciences, University of Novi Sad, Serbia

- List of selected publications (up to five most important publications in the research field of the Project).
 1. M21: **Tarjan L.**, Šenk I., Tegeltija S., Stankovski S., Ostojić G.: A readability analysis for QR code application in a traceability system (DOI: 10.1016/j.compag.2014.08.015), Computers and Electronics in Agriculture, 2014, Vol. 109, No November, pp. 1-11, ISSN 0168-1699 (IF: 1.761)
 2. M22: Milenković I., Šešlija D., **Tarjan L.**, Dudić S.: Wireless sensor system for monitoring of compressed air filters, Journal of Scientific and Industrial Research, 2012, Vol. 71, No 5, pp. 334-340, ISSN 0022-4456 (IF: 0.505)
 3. M22: Šenk I., Ostojić G., Jovanović V., **Tarjan L.**, Stankovski S.: Experiences in developing labs for a supervisory control and data acquisition course for undergraduate mechatronics education, DOI:10.1002/cae.21578, Computer Applications in Engineering Education, 2015, Vol. 23, No 1, pp. 54-62, ISSN 1061-3773 (IF: 0.935)

4. M23: Stankovski S., Ostojić G., **Tarjan L.**, Oros D., Lazarević M.: IML Robot Grasping Process Improvement, Iranian Journal of Science and Technology, Transactions B, 2011, Vol. 35, No M1, pp. 197-207, ISSN 1028-6284 (IF: 0.375)
 5. M33: Šenk I., Ostojić G., **Tarjan L.**, Stankovski S., Lazarević M.: Food Product Traceability by Using Automated Identification Technologies, 4. Doctoral Conference on Computing, Electrical and Industrial Systems DoCEIS, Lisabon: Springer, 15-17 April, 2013, pp. 155-163, ISBN 978-3-642-37290-2.
- Citation number (excluding self-citations) from SCOPUS: **76**
 - Hirsch index from SCOPUS: **4**
 - Participant in the following national and international projects:
 - Automated systems for identification and object tracking in industrial and nonindustrial systems**, No. TR35001 Supported by Ministry of Science, Technologies and Development (Republic of Serbia), project period 2011 – 2019.
 - Creating wealth from the wealth of Serbia**, No. II 46001 Supported by Ministry of Science, Technologies and Development (Republic of Serbia), project period 2011 – 2019.
 - Integration of identification technologies into packaging devices for food, chemical and medical products**, No. 451-1948, Supported by Secretary of AP Vojvodina, project period 2011 – 2015.
 - RFID (internet of thing) based animal individual identification technology and its application on quality traceability system**, No. 680-00-00557/2013-09/04, Bilateral project between University of Novi Sad, Faculty of Technical Sciences and China Agricultural University, 17ⁿ Qinghua East Road, Haidian, Beijing, China, project period 2013 – 2015
 - Master Studies and Continuing Education Network for Product Lifecycle Management with Sustainable Production MAS-PLM Tempus JP**, No: 144959-TEMPUS-2008-IT-JPRC, Supported by TEMPUS, project period 2009 - 2012.
 - Application of IoT technologies in order to increase the quality of identification and tracking of animals**, No: 451-03-01414/2016-09/12, Bilateral project between University of Novi Sad, Faculty of Technical Sciences and University of Montenegro, Biotechnical Faculty, project period 2016 - 2018.
 - Use of Internet of Things (IoT) with low power consumption and distributed intelligence in conditions of natural disasters and catastrophic events**, No. 142-451-3578/2017-01, Supported by Secretary of AP Vojvodina, project period 2017 – 2018.
 - Reviewing scientific journals and grants.
 - Editorial board member at **Journal of Mechatronics, Automation and Identification Technology**, <http://jmaait.org/editorial-board/>
 - Reviewer for **Food Control** scientific journal (SCI), Ref. No.: FOODCONTD1501942, 2015.12.31. Ref. No.: FOODCONT-D-17-01741, 2017.11.14.
 - Reviewer for **Computers and electronics in agriculture** scientific journal (SCI), Ref. No.: COMPAG_2017_1322, 2018.04.13. Ref. No.: COMPAG_2017_1322_R1, 2018.06.04.
 - Reviewer for **International Journal of Electrical Engineering and Computing (IJEEC)** scientific journal Ref. No.: 108-1, 2018.05.11.
 - Reviewer for **International Symposium Infoteh Jahorina** from 2012. until today.
 - Skills and other facts relevant to the Project.
 - Programming languages:** C, C++, Basic, VBA for MS Excel.
 - Other mathematical and programming tools:** Matlab (Simulink), LabView; PLC programing tools: Siemens TIA Portal, CoDeSys, Festo FST, Microcontroller programing tools: AVR studio, CodeVision, MPLAB.
 - Web and related technologies:** HTML, CSS, setting up server for sensor data acquisition. Preparing and adjusting data to work in different programs.
 - Language:** Serbian, Hungarian, English
 - Other:** Solid grasp of parsing data and converting between formats as needed. Experience working on a project to monitor cow nutrition parameters.
 - Links for reasearch pages:
 - https://scholar.google.com/citations?hl=en&user=BK_ssfAAAAJ
 - <https://orcid.org/0000-0001-9731-1304>
 - <https://www.scopus.com/authid/detail.uri?authorId=35178684000>
 - <http://istrazivaci.mpn.gov.rs/istrazivac/142433>