

Dr, Marko Kostić, docent.
Uža naučna oblast: Poljoprivredna tehnika
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Obrazovanje

- **Dipl. inž.** (2007) – Univerzitet u Novom Sadu, Poljoprivredni fakultet, Poljoprivredna tehnika
- **Master** (2009) - Univerzitet u Novom Sadu, Poljoprivredni fakultet, Poljoprivredna tehnika
- **Doktor nauka** (2015) - Univerzitet u Novom Sadu, Poljoprivredni fakultet, Agronomija

Marko Kostić trenutno radi kao docent na Univerzitetu u Novom Sadu, Poljoprivrednom fakultetu, Departmanu za poljoprivrednu tehniku. Uže oblast proučavanja je precizna poljoprivreda sa naglaskom na razvoj sistema za proksimalnu detekciju različitih parametara zemljišta i biljka realno u vremenu i prostoru. Konstruisao je i patentirao jedno rešenje mehaničke konstrukcije za merenje otpora obrade zemljišta na poljoprivrednim mašinama realno u vremenu i prostoru u sklopu redovne operacije obrade zemljišta. Osim toga, bavi se i oblastima kao što su sistemi obrade zemljišta, tehnologija precizne aplikacije đubriva, tehnologija precizne setve i opto-elektronske kontrole setve, itd. Tokom svog dosadašnjeg rada bio je angažovan na 3 domaća projekta.

Odabrane publikacije

1. **Kostić M**, Dedović N, Savin L, Snežana Matić Kekić. 2015. Uticaj konfiguracije traktora na kvalitet vođenja priključne mašine u šablonu paralelnih prohoda-teorijska analiza. Savremena poljoprivredna tehnika, 41(3): 155-164.
2. **Kostić M**, Rakić D, Ličen H, Malinović N. 2014. Design and construction of three point hitch device for measuring draft of tillage implement. Data acquisition and post processing analysis. J. Food Agric. Environ., 12(2): 1300-1307.
3. **Kostić M**, Malinović N. 2014. Univerzalni ram za merenje mehaničkog otpora obrade zemljišta na poljoprivrednim priključnim mašinama. Patent No. 1384. Glasnik intelektualne svojine br. 5/2014.
4. **Kostić M**, Meši M, Benka P, Crnobarac J, Malinović N. 2013. Prostorno lociranje sabijenih zona u zemlišnom profilu primenom gps i gis tehnologije. Savremena poljoprivredna tehnika, 39(3):187-196.
5. **Kostić M**, Ponjičan O, Radomirović D, Malinović N, Radulović M. 2013. Merenje vučnih otpora na plugu sa standardnom i rešetkastom plužnom daskom na zemljištu tipa ritska crnica. Savremena poljoprivredna tehnika, 39(1):21-32.
6. Malinović N, Kostić M, Meši M. 2012. Preciznost doziranja ozubljenim setvenim aparatom zavisno od režima rada i osobina semena. Savremena poljoprivredna tehnika, 38(1):1-70.
7. **Kostić M**, Malinović N, Meši M, Belić M. 2012. Primena GPS i GIS tehnologije u postupku merenja mehaničkog otpora zemljišta. Savremena poljoprivredna tehnika, 38(3):219-229.
8. **Kostić M**, Snežana Kekić Matić, Dedović N, Malinović N, Meši M, Savin L. 2012. Pojednostavljeni regresioni model neravnomernog opterećenja točkova traktora na bočnom nagibu i njegova primena. Savremena poljoprivredna tehnika, 38(2):153-164.
9. **Kostić M**, Malinović N, Meši M. 2011. Razvoj uređaja za dinamičko merenje mehaničkog otpora zemljišta. Savremena poljoprivredna tehnika, 37(3): 295-304.
10. **Kostić M**, Malinović N, Meši M. 2011. Optičko-elektronska kontrola setve na sejalicama za širokorednu setvu. Savremena poljoprivredna tehnika, 37(1):11-22.

11. Malinović N, Meši M, **Kostić M**. 2011. Uticaj osobina mineralnog đubriva na protok i ravnomernost površinske distribucije. *Savremena poljoprivredna tehnika*, 37(4): 355-362.
12. Meši M, Malinović N, **Kostić M**, Anđelković S. 2010. Proizvodnja šećerne repe u uslovima konvencionalne i konzervacijske obrade. *Savremena poljoprivredna tehnika*, 36(2): 129-137.

Konferencije

1. **Kostić M**, Malinović N. 2013. Comparative measuring of draft of slatted moldboard and moldboard plow with a new measuring system. 2nd International Scientific Conference "Soil and crop management: Adaptation and mitigation of climate change, Osijek, p:316-328.
2. **Kostić M**, Rakić D, Ličen H, Malinović N. 2013. Preliminary testing of a new three point hitch device to measure the draft requirement of tillage tools. The first international symposium on agricultural engineering, Book of abstracts, October 4-6, 2013, Belgrade-Serbia.

Selected projects

- * TR – 20078: "Unapređenje energetske i ekološke efikasnosti traktora i mobilnih sistema" (2008-2011). (Učesnik)
- * TR – 31046: „Unapređenje kvaliteta traktora i mobilnih sistema u cilju povećanja konkurentnosti, zaštite zemljišta i životne sredine“. (2011-2014). (Učesnik)
- * 114-451-2298/2011: "Razvoj i aplikacija sistema za merene otpora zemljišta po principima precizne poljoprivrede" (2011-2013). (Učesnik).

Obuke

PR China, „Training course on biogas hygiene technologies and facilities“ (45 dana)

Nastava

Vežbe i predavanja na osnovnim studijama

Članstvo u udruženjima

- Vojvođansko društvo za poljoprivrednu tehniku

Language skills: English

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Academic qualifications

- **BSc** (2007) - University of Novi Sad, Faculty of Agriculture
- **MSc** (2009) - University of Novi Sad, Faculty of Agriculture
- **PhD** (2015) - University of Novi Sad, Faculty of Agriculture

Marko Kostić is currently employed as a research associate in the University of Novi Sad, Faculty of Agriculture, Department of agricultural engineering. The narrow field of interest is precision agriculture regarding to system for real-time and real-space measuring of soil parameters. He developed and patented originally technical solution of mechanical construction which is purposed to provide simultaneously on-the-go measurement of resistance and doing normal tillage operation with any tractor and tillage machine II and III category. Except that, he is interested in application of different tillage systems, technology of mineral fertiliser application, technology of precision seeding and opto-electronic systems for seeding quality control. During his research career he was involved in 3 national projects.

Journal papers

1. **Kostić M**, Dedović N, Savin L, Snežana Matić Kekić. 2015. The influence of tractor configuration on machine guidance error under parallel tracking pattern-theoretical analysis. *Cont. Agr. Eng.*, 41(3): 155-164.
2. **Kostić M**, Rakić D, Ličen H, Malinović N. 2014. Design and construction of three point hitch device for measuring draft of tillage implement. Data acquisition and post processing analysis. *J. Food Agric. Environ.*, 12(2): 1300-1307.
3. **Kostić M**, Malinović N. 2014. Universal mechanical frame for measurement of soil resistance during a tillage with conventional machines. Patent No. 1384. *Zavod za intelektualnu svojinu (Intellectual Property Gazette)*, No. 5/2014.
4. **Kostić M**, Meši M, Benka P, Crnobarac J, Malinović N. 2013. Spatial locating compacted zones in the soil profile using the gps and gis technology. *Cont. Agr. Eng.*, 39(3):187-196.
5. **Kostić M**, Ponjičan O, Radomirović D, Malinović N, Radulović M. 2013. Draft measurement of standard mouldboard and slatted mouldboard plow on humogley soil. *Cont. Agr. Eng.*, 39(1):21-32.
6. Malinović N, **Kostić M**, Meši M. 2012. Roller fluted metering device flow evenness according to different working parameters and seed properties. *Cont. Agr. Eng.*, 38(1):1-70.
7. **Kostić M**, Malinović N, Meši M, Belić M. 2012. Application of gps and gis technology in mechanical soil resistance measurement. *Cont. Agr. Eng.*, 38(3):219-229.
8. **Kostić M**, Snežana Kekić Matić, Dedović N, Malinović N, Meši M, Savin L. 2012. Simplified regression model of uneven tractor wheel load on side slope and its application. *Cont. Agr. Eng.*, 38(2):153-164.
9. **Kostić M**, Malinović N, Meši M. 2011. Development of devices for dynamic measurement of soil mechanical resistance. *Cont. Agr. Eng.*, 37(3): 295-304.
10. **Kostić M**, Malinović N, Meši M. 2011. Opto-electronic sowing control on seed drills. *Cont. Agr. Eng.*, 37(1):11-22.
11. Malinović N, Meši M, **Kostić M**. 2011. Impact characteristics of mineral fertilizers to flow and surface distribution uniformity. *Cont. Agr. Eng.*, 37(4): 355-362.

12. Meši M, Malinović N, **Kostić M**, Anđelković S. 2010. Production of sugar beet using conventional and conservation tillage. *Cont. Agr. Eng.*, 36(2): 129-137.

Conference papers

3. **Kostić M**, Malinović N. 2013. Comparative measuring of draft of slatted moldboard and moldboard plow with a new measuring system. 2nd International Scientific Conference "Soil and crop management: Adaptation and mitigation of climate change, Osijek, p:316-328.
4. **Kostić M**, Rakić D, Ličen H, Malinović N. 2013. Preliminary testing of a new three point hitch device to measure the draft requirement of tillage tools. The first international symposium on agricultural engineering, Book of abstracts, October 4-6, 2013, Belgrade-Serbia.

Selected projects

Project TR – 20078: "Improvement of energy and ecology efficiency of tractors and mobile systems" (2008-2011). (Participant)

Project TR – 31046: "Improving the quality of tractors and mobile systems in order to increase competitiveness, soil conservation and the environment" (2011-2014). (Participant)

Project 114-451-2298/2011: "Development and application of a measuring system for determining the soil mechanical resistance according to principle of precision agriculture" (2011-2013). (Participant).

Professional training

PR China, "Training course on biogas hygiene technologies and facilitates" (45 days)

Academic activities

Teaching at undergraduate studies (Machinery and equipment in field crop production)

Memberships

- Vojvodinian Society of Agricultural Engineering

Language skills: English