



UNIVERSITY OF BELGRADE - FACULTY OF AGRICULTURE
The Institute for Agricultural Engineering

ORGANIZER

**University of Belgrade, Faculty of Agriculture, The Institute for Agricultural Engineering,
Belgrade, Serbia**

CO-ORGANIZERS

**University of Basilicata,
School for Agricultural, Forestry,
Food and Environmental Sciences,
Potenza, Italy**

**University of Sarajevo,
Faculty of Agricultural and
Food Sciences,
Sarajevo, Bosnia and Herzegovina**

**Aristotle University of Thessaloniki,
Faculty of Agriculture,
Thessaloniki, Greece**

**University of Belgrade,
Faculty of Mechanical Engineering,
Belgrade, Serbia**

**Vinča Institute for Nuclear Science,
Belgrade, Serbia**

**Serbian Soil Tillage Research Organisation,
Belgrade, Serbia**

**Institute of Agricultural Economics,
Belgrade, Serbia**

**4th International Symposium
on
Agricultural Engineering**

BOOK OF ABSTRACTS

**The Fourth International Symposium on
Agricultural Engineering**



ISAE 2019

Belgrade, Serbia

31.October - 2.November 2019

Univerzitet u Beogradu – Poljoprivredni fakultet
IV MEĐUNARODNI SIMPOZIJUM O POLJOPRIVREDNOJ TEHNICI
(The Fourth International Symposium on Agricultural Engineering)
"ISAE 2019 - Book of Abstracts"

Urednici/Editors:
Dr Aleksandra Dimitrijević
Dr Ivan Zlatanović

Izdavač:
Univerzitet u Beogradu – Poljoprivredni fakultet

Za izdavača:
prof. dr Dušan Živković

Glavni i odgovorni urednik:
prof. dr Radojka Maletić

Tehnički urednik:
Dr Ivan Zlatanović
Štampa:
INTERKLIMA-GRAFIKA d.o.o.,
Kneza Miloša 161, Vrnjačka Banja, Srbija

Izdanje:
Prvo

Tiraž:
100 primeraka

Odlukom Odbora za izdavačku delatnost Poljoprivrednog fakulteta Univerziteta u Beogradu od 22.10.2019. godine, br. 231/8, odobreno je izdavanje i štampanje Zbornika abstrakata IV MEĐUNARODNI SIMPOZIJUM O POLJOPRIVREDNOJ TEHNICI (The Fourth International Symposium on Agricultural Engineering) "ISAE 2019 - Book of Abstracts".

Zabranjeno preštampavanje i fotokopiranje.
Sva prava zadržava izdavač.

Beograd 2019



The Fourth International Symposium on
Agricultural Engineering
ISAE-2019



31st October-2nd November 2019, Belgrade – Zemun, SERBIA
<http://www.isae.agrif.bg.ac.rs>

Organizer:

University of Belgrade, Faculty of Agriculture, Department for Agricultural Engineering,
Belgrade, Serbia.

Co-organizers:

- University of Basilicata - School for Agricultural, Forestry, Food and Environmental Sciences, Potenza, Italy
- University of Sarajevo, Faculty of Agricultural and Food Sciences, Sarajevo, Bosnia and Herzegovina
- Aristotle University of Thessaloniki Faculty of Agriculture, Thessaloniki, Greece
- University of Belgrade, Faculty of Mechanical Engineering, Belgrade, Serbia
- Vinča Institute for Nuclear Science, Belgrade, Serbia
- Serbian Soil Tillage Research Organisation, Belgrade, Serbia
- Institute of Agricultural Economics, Belgrade, Serbia

Support:

- Balkan Environmental Association – BENA
- Research Network on Resource Economics and Bioeconomy Association – RebResNet
- Association for Medicinal and Aromatic Plants of Southeast European Countries – AMAPSEEC

ISAE-2019

BOOK OF ABSTRACTS

ISAE-2019 THE SYMPOSIUM COMMITTEES

SCIENTIFIC COMMITTEE

Aleksandra Dimitrijević - *president* (Serbia)
Kosta Gligorević - *secretary* (Serbia)

Members:

Pietro Picuno (Italy)
Carmela Sica (Italy)
Selim Škaljić (Bosnia and Herzegovina)
Siniša Berjan (Bosnia and Herzegovina)
Gerasimos Martzopoulos (Greece)
Miran Lakota (Slovenia)
Danijel Jug (Croatia)
Igor Kovačev (Croatia)
Ivica Kisić (Croatia)
Wim Heijman (Holland)
Thomas Glauben (Germany)
Laszlo Mago (Hungary)
Marta Birkas (Hungary)
Hamid El Bilali (Italy)
Kurt Tomantschger (Austria)
Mehmet Musa Ozcan (Turkey)
Juraj Šebo (Slovakia)
Ivan Zlatanović (Serbia)
Zoran Mileusnić (Serbia)
Miloš Pajić (Serbia)
Nedžad Rudonja (Serbia)
Vojislav Simonović (Serbia)
Ružica Todorović (Serbia)
Jonel Subić (Serbia)

Rajko Miodragović (Serbia)
Milan Dražić (Serbia)
Dragan Petrović (Serbia)
Mićo Oljača (Serbia)
Goran Topisirović (Serbia)
Vladimir Pavlović (Serbia)
Nikola Ivanović (Serbia)
Rade Radojević (Serbia)
Olivera Ećim-Đurić (Serbia)
Milovan Živković (Serbia)
Stevan Čanak (Serbia)
Ondrej Ponjičan (Serbia)
Saša Barać (Serbia)
Dušan Radivojević (Serbia)
Dimitrije Andrejević (Serbia)
Vanja Stepanović (Serbia)
Dušan Kovačević (Serbia)
Željko Doljanović (Serbia)
Đorđe Moravčević (Serbia)
Nebojša Momirović (Serbia)
Zorica Vasiljević (Serbia)
Vlade Zarić (Serbia)
Sanjin Ivanović (Serbia)
Valentina Turanjanin (Serbia)
Biljana Vučićević (Serbia)
Milan Gojak (Serbia)
Miloš Banjac (Serbia)
Milivoj Radočin (Serbia)

ORGANIZING COMMITTEE

Ivan Zlatanović - *president* (Serbia)
Milan Dražić - *secretary* (Serbia)

Members:

Kosta Gligorević (Serbia)
Miloš Pajić (Serbia)
Zoran Mileusnić (Serbia)
Aleksandra Dimitrijević (Serbia)
Nebojša Balać (Serbia)
Biljana Bošković (Serbia)
Đorđe Moravčević (Serbia)
Željko Doljanović (Serbia)

Dušan Kovačević (Serbia)
Zorica Vasiljević (Serbia)
Sanjin Ivanović (Serbia)
Vlade Zarić (Serbia)
Saša Todorović (Serbia)
Jonel Subić (Serbia)
Vojislav Simonović (Serbia)
Ružica Todorović (Serbia)
Nedžad Rudonja (Serbia)
Biljana Vučićević (Serbia)
Valentina Turanjanin (Serbia)