

ISSN 2453-6881  
2017, vol. 3, no. 1

# { MERA } Mathematics in Education, Research and Applications

Research in mathematics and related fields

Education in mathematics at all types of schools

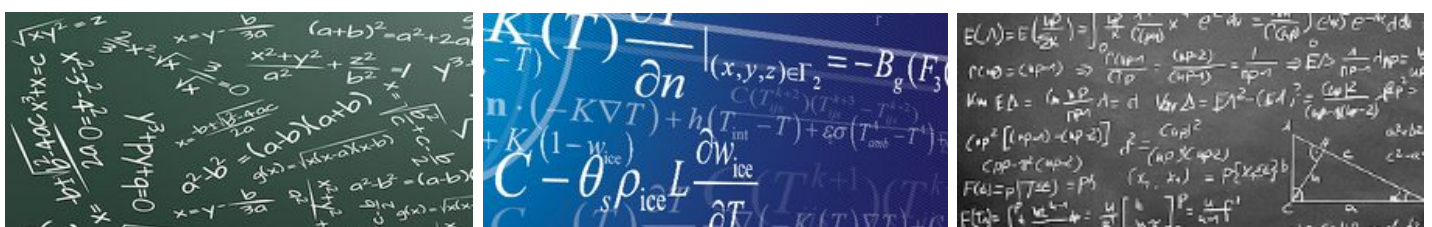
Applications of mathematics in teaching, research and practice

Methodology of mathematics

Information technology tools in mathematics

Cross-curricular relations with mathematics

Slovak University of Agriculture in Nitra :: Department of Mathematics, Faculty of Economics and Management



**Editorial Team****Scientific Board**

- Dr.h.c. prof. Ing. Peter Bielik, Ph.D., Slovak University of Agriculture in Nitra, SK
- prof. Dr. Ing. Elena Horská, Slovak University of Agriculture in Nitra, SK
- doc. RNDr. Dana Országhová, CSc., Slovak University of Agriculture in Nitra, SK
- doc. RNDr. Václav Nýdl, CSc., University of South Bohemia in v České Budějovice, CZ
- RNDr. Radovan Potůček, Ph.D., University of Defence, Brno, CZ
- Dr. Inż. Patrycja Hąbek, Silesian University of Technology, Zabrze, PL
- prof. Volodimir M. Bulgakov, National University of Life and Environmental Sciences of Ukraine, UA
- Dr. Vinogradov Sergey, Szent István University, Gödöllő, HU
- Dr. Ugródsy György, Szent István University, Gödöllő, HU
- Henrietta Nagy, Ph.D., Szent István University, Gödöllő, HU
- prof. RNDr. Ján Čižmár, Ph.D., Universitas Tyrnaviensis, Trnava, SK
- prof. RNDr. Anna Tirpáková, CSc., Constantine The Philosopher University in Nitra, SK
- prof. RNDr. Ondrej Šedivý, CSc., Constantine The Philosopher University in Nitra, SK
- doc. RNDr. Eduard Boďa, CSc., Comenius University in Bratislava, SK
- doc. RNDr. Štefan Solčan, Ph.D., Comenius University in Bratislava, SK
- doc. RNDr. Mária Mišútová, Ph.D., Slovak University of Technology in Bratislava, SK
- doc. RNDr. Daniela Velichová, CSc., Slovak University of Technology in Bratislava, SK
- Ing. Pavel Flak, DrSc., Slovak Academy of Agricultural Sciences, Lužianky, SK

**Editorial Board**

- doc. RNDr. Dana Országhová, CSc., Slovak University of Agriculture in Nitra, SK :: **Editor in Chief**
- Mgr. Vladimír Matušek, Ph.D., Slovak University of Agriculture in Nitra, SK
- Mgr. Norbert Kecskés, Ph.D., Slovak University of Agriculture in Nitra, SK

Mathematical scholarly, peer-reviewed, open access, online journal.

**Publisher:** Slovak University of Agriculture in Nitra :: Department of Mathematics

**ISSN:** 2453-6881

**Journal Website:** <http://meraa.uniag.sk>

**Journal acronym:** MERA

**Journal title abbreviation:** Math Educ Res Appl

**Periodicity:** 2 times per year.



Attribution 4.0 International (CC BY 4.0)

**Content**

Milada Balková, Dušan Páleš <b>Modelling of the efficient system of the daylighting in a stable for dairy cows</b>	.....	1
Dušan Páleš, Jozef Rédl, Ivan Beloev <b>B-spline surface for distribution of the agriculture soil moisture</b>	.....	11
Radovan Potůček <b>The sum of the series of reciprocals of the quadratic polynomials with purely imaginary conjugate roots</b>	.....	17
Dana Országhová, Jarmila Horváthová <b>Assessment of competences acquired via CLIL in selected subjects at the Slovak University of Agriculture in Nitra</b>	.....	24
Tomáš Pechočiak, Veronika Hrdá <b>Mapping of migration in Slovakia</b>	.....	32
Maciej Sporysz, Vladimír Matušek, Mariusz Fitowski <b>High frequency trading regarding trade in goods of agricultural origin</b>	.....	41