



## Ovidiu RANTA

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**Address:** 3-5 Calea Manastur Street, 400372, Cluj-Napoca, Romania, 400372, Cluj-Napoca, Romania (Work)

### ABOUT ME

Field of activity: Mechanization of agricultural works / energy sources.

Didactic degree: Professor.

Scientific title: Doctor of Engineering

Area of expertise: Soil tillage machines, tillage machines

sowing machines, phytosanitary treatment machines, harvesters, tractors

agricultural, depollution facilities.

### EDUCATION AND TRAINING

06/2021 Cluj-Napoca, Romania

**CERTIFICATE OF ABILITY (AGRONOMY DOMAIN)** University of Agricultural Sciences and Veterinary Medicine of Cluj-Napoca

**Address** 3-5 Calea Manastur Street, 400372, 400372, Cluj-Napoca, Romania

01/10/1998 – 17/03/2008 Cluj-Napoca, Romania

**DOCTORAL DEGREE IN MECHANICAL ENGINEERING SERIES F NO.0002018** Technical University of Cluj Napoca

**Address** 103-105 Bulevardul Muncii Street, 400114, Cluj-Napoca, Romania

01/10/1998 – 30/06/1999 Cluj-Napoca, Romania

**DIPLOMA OF IN-DEPTH STUDIES SERIES D NO.0017148** Technical University of Cluj Napoca

**Address** 103-105 Bulevardul Muncii Street, , 400114, Cluj-Napoca, Romania

01/10/1997 – 18/06/1999 Cluj-Napoca, Romania

**DIPLOMA OF POSTGRADUATE ACADEMIC STUDIES SERIES G NR. 0001428** Technical University of Cluj Napoca

**Address** 103-105 Bulevardul Muncii Street, 400114, Cluj-Napoca, Romania

15/06/1996 – 13/06/1999 Cluj-Napoca, Romania

**TEACHER TRAINING DEPARTMENT** Technical University of Cluj Napoca

**Address** 103-105 Bulevardul Muncii Street, 400114, Cluj-Napoca, Romania

01/10/1992 – 30/06/1997 Cluj-Napoca, Romania

**DIPLOMA IN ENGINEERING, FACULTY OF MECHANICS, SPECIALIZATION IN AGRICULTURAL MECHANICS** Technical University of Cluj Napoca

**Address** 103-105 Bulevardul Muncii Street, 400114, Cluj-Napoca, Romania

15/09/1988 – 30/06/1992 Dej, Romania

**BACCALAUREATE DIPLOMA SERIES K NO. 131839** Liceul Teoretic Andrei Mureșanu Dej

**Address** 1 Mai Street, no. 10, 405200, Dej, Romania

## ● WORK EXPERIENCE

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**VICE-RECTOR SOCIO-ECONOMIC RELATIONSHIP – UNIVERSITY OF AGRICULTURAL SCIENCES AND VETERINARY MEDICINE OF CLUJ-NAPOCA** – 20/11/2023 – Current – CLUJ-NAPOCA, ROMANIA

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**PROFESSOR – UNIVERSITY OF AGRICULTURAL SCIENCES AND VETERINARY MEDICINE OF CLUJ-NAPOCA** – 28/02/2022 – Current – CLUJ-NAPOCA, ROMANIA

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Courses in the following subjects: Automation of technological processes, Mechanization of forestry works, Forestry machinery and equipment, Agricultural machinery 1 and 2, Technical thermodynamics, Energy base for agriculture, Machinery and transport systems, Testing and diagnostics of machinery and equipment.

**PHD COORDINATOR, AGRONOMY, SPECIALIZATION MECHANIZATION , DOCTORAL SCHOOL OF AGRICULTURAL SCIENCES – UNIVERSITY OF AGRICULTURAL SCIENCES AND VETERINARY MEDICINE OF CLUJ-NAPOCA** – 28/12/2021 – Current – CLUJ-NAPOCA, ROMANIA

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**DIRECTOR OF DEPARTMENT I TECHNICAL SCIENCES AND SOIL SCIENCES – UNIVERSITY OF AGRICULTURAL SCIENCES AND VETERINARY MEDICINE OF CLUJ-NAPOCA** – 20/10/2016 – Current – CLUJ-NAPOCA, ROMANIA

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**MEMBER OF THE SENATE – UNIVERSITY OF AGRICULTURAL SCIENCES AND VETERINARY MEDICINE OF CLUJ-NAPOCA** – 19/11/2011 – Current – CLUJ-NAPOCA, ROMANIA

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**COORDINATION OF THE PRACTICE DEPARTMENT – UNIVERSITY OF AGRICULTURAL SCIENCES AND VETERINARY MEDICINE OF CLUJ-NAPOCA** – 01/10/2011 – Current – CLUJ-NAPOCA, ROMANIA

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**ASSOCIATE PROFESSOR – UNIVERSITY OF AGRICULTURAL SCIENCES AND VETERINARY MEDICINE OF CLUJ-NAPOCA** – 24/02/2014 – 28/02/2022 – CLUJ-NAPOCA, ROMANIA

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Courses and practical work in the subjects: Agricultural machinery, Tractor driving, Machinery and transport systems, Technical thermodynamics, Automation of technological processes, Testing and diagnostics of machines and equipment, Reliability of agricultural and food industry machinery, Applied electronics, Descriptive geometry and technical drawing, Mechanization of forestry works.

**SCIENTIFIC COORDINATION OF DIPLOMA / DISSERTATION – UNIVERSITY OF AGRICULTURAL SCIENCES AND VETERINARY MEDICINE OF CLUJ-NAPOCA** – Current – CLUJ-NAPOCA, ROMANIA

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**LECTURER, FACULTY OF AGRICULTURE, DEPARTMENT OF MECHANIZATION – UNIVERSITY OF AGRICULTURAL SCIENCES AND VETERINARY MEDICINE OF CLUJ-NAPOCA** – 23/02/2004 – 24/02/2014 – CLUJ-NAPOCA, ROMANIA

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Courses and practical work in the following subjects: Agricultural machines and environmental impact, Depollution technologies and installations, Energy base for agriculture, Energy base for horticulture, Agricultural machines, Horticultural machines, Tractor driving, Agricultural mechanization, Energy sources, Mechanics, Descriptive geometry and technical drawing, Strength of materials

**PHD STUDENT, MECHANICAL ENGINEERING – TECHNICAL UNIVERSITY OF CLUJ NAPOCA** – 01/10/1998 – 01/03/2008 – CLUJ-NAPOCA, ROMANIA

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Mechanization of soil works, sowing technologies, direct sowing technology.  
Thesis title: Research on the mechanization of direct sowing of corn in uncultivated land.

**UNIVERSITY ASSISTANT, FACULTY OF AGRICULTURE, DEPARTMENT OF MECHANIZATION – UNIVERSITY OF AGRICULTURAL SCIENCES AND VETERINARY MEDICINE OF CLUJ-NAPOCA** – 21/02/2000 – 23/02/2004 – CLUJ-NAPOCA, ROMANIA

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Practical works, seminars, practical activity at the Mechanization Department

**PREPARING ASSISTANT, FACULTY OF AGRICULTURE, DEPARTMENT OF MECHANICS – UNIVERSITY OF AGRICULTURAL SCIENCES AND VETERINARY MEDICINE OF CLUJ-NAPOCA** – 19/02/1998 – 21/02/2000 – CLUJ-NAPOCA, ROMANIA

Practical works, seminars, practical activity at the Mechanization Department

**INVITED LECTURE, FACULTY OF AGRICULTURE, DEPARTMENT OF MECHANIZATION – UNIVERSITY OF AGRICULTURAL SCIENCES AND VETERINARY MEDICINE OF CLUJ-NAPOCA** – 01/10/1997 – 19/02/1998 – CLUJ-NAPOCA, ROMANIA

Practical works, seminars, practical activity at the Mechanization Department

## ● LANGUAGE SKILLS

Mother tongue(s): **ROMANIAN**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
<b>ENGLEZA</b>	B2	B2	B2	B2	B2
<b>GERMANA</b>	B2	B2	B2	B2	B2

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

## ● SKILLS

Navigare Internet | Utilizare buna a programelor de comunicare(mail messenger skype) | buna utilizare a retelelor de socializare | Zoom | Microsoft Word | Microsoft PowerPoint | facebook page | Google Drive

## ● PUBLICATIONS

### Published books, courses, guides

1. Drocaș, I., Mihaiu, I., **Ranta, O.**, Molnar, A., *Reglarea mașinilor agricole de lucrat solul, semănat, plantat, fertilizat și protecția plantelor*, Editura RISOPRINT, Cluj-Napoca, 1999,170 pag. ISBN 973-9464-05X
2. Stănilă, S., Roș, V., Mihaiu I., **Ranta, O.** *Tehnici și tehnologii de mecanizare a lucrărilor în sistem de conservare a solului*, Ed. Alma Mater, Cluj-Napoca, 2003,175 pag. ISBN 973-8397-03-0
3. Mihaiu, I., Drocaș, I., **Ranta, O.**, Molnar, A. *Reglarea mașinilor agricole*, Editura Risoprint, Cluj-Napoca, 2004, 317 pag. ISBN 973-656-560-2
4. **Ranta, O.**, *Conducere tractoare*, 2021 Curs, AcademicPres Cluj-Napoca, 151 pag ISBN 978-973-744-885-9
5. Rusu M., Roxana Vidican, **Ranta Ovidiu**, *Reguli de aplicare corectă a fertilizanților*, Editura Colorama, Cluj-Napoca, 2017, 165 pag ISBN978-606-8778-28-0
6. **Ranta O.**, *Mecanizarea semanatului direct*, 2021 Editura AcademicPress, ISBN978-973-744-890-3, 253 pag.
7. **Ranta O.** Ovidiu Marian, Valentin Crișan, Alexandru Ghețe, 2021, *Bază energetică pentru agricultură (Îndrumător de lucrări practice)* 2021, Editură AcademicPress, Cluj-Napoca 233 pag ISBN 978-973-744-891-0
8. **Ranta O.**, 2021, *Utilaje și sisteme de transport curs*, Editură AcademicPress, Cluj-Napoca 228 pag ISBN 978-973-744-888-0
9. **Ranta O.** Ovidiu Marian, Valentin Crișan, Alexandru Ghețe, 2021, *Curs Baza Eneretica pentru Agricultura*, editura Editura AcademicPres 2021 cu e- ISBN: 978-973-744-883-5
10. Marian Ovidiu, Ranta Ovidiu, Ghețe Alexandru, *Exploatarea Utilajelor Agricole Volumul I* , Editura Academic Press, Cluj Napoca, Romania, eISBN 978-630-309-041-2

### Representative works

1. **Ranta O.**, Drocaș I., Haitau V., Buzogany A., Stanila S., Molnar A., *Optimization of technologic process at fodder kitchen using computer devices*, Buletinul USAMV Cluj-Napoca, Seria Agricultura, 2005. **(ISI proceedings)**
2. **Ovidiu RANTA**, Adrian MOLNAR, Mircea GHEREȘ, DEAC Teodora, *The agriculture-as energy producer (B)*, ProEnvironment 2 (2008) 39 – 41

3. **Ranta Ov.**, K. Koller, V. Ros , I. Drocaş, Ov. Marian, *Study regarding the forces that occurs in a no-till technology process in relation with geometrical parameters of the coulter discs* Buletinul USAMV-CN, 65/2008(-) ISSN 1843-5246 (Index Copernicus, CAB, EBSCO, Scopus)
4. **Ranta, O.**, Drocaş, I., Stănilă, S., Molnar, A., Marian, O. *Influence of disc kinematic regime used in no-tillage technology on germinative bed cone index*; Revista, an, numar, pagini: Bulletin of University of Agricultural Sciences and Veterinary Medicine Cluj-Napoca, vol. 66(1)/2009, Editura AcademicPres, Cluj-Napoca, 2009
5. **Ovidiu RANTA** , Ioan DROCAŞ, Sorin STĂNILĂ, Adrian MOLNAR, Mircea Valentin MUNTEAN, *Analysis of Working Qualitative Parameters for No-Till Machines*, Bulletin UASVM Agriculture, 68(1)/2011 (Index Copernicus, CAB, EBSCO, Scopus)
6. **Ovidiu RANTA**, Ioan DROCAŞ, Ovidiu MARIAN, Adrian MOLNAR, Sorin STANILĂ, Mircea MUNTEAN, variation of transversal distribution uniformity for eep-600me in corelation with boom stability, Research Journal of Agricultural Science, 44 (1), pag.289, Timisoara, 2012, (CAB Abstracts)
7. **Ovidiu RANTA**, Ioan Drocaş, Sorin Stănilă, Adrian Molnar, Mircea Muntean, Ovidiu Marian, *The main advantages of E-drive system used for precision seeding*, Bulletin UASVM serie Agriculture 69(1)/2012, 238-243, Print ISSN 1843-5246; (CAB Abstracts)
8. **RANTA Ovidiu**, Ioan DROCAŞ, Sorin STĂNILĂ, Adrian MOLNAR, Mircea MUNTEAN, Ovidiu MARIAN *Influence the Coulter Type on the Seed - Soil Contact in No-till Technology*, Bulletin UASVM serie Agriculture 70(1)/2013, 173-179, Print ISSN 1843-5246; Electronic ISSN 1843-5386

ISI: 44, of which 9 in impact factor journals, BDI: 108, WOS 392 citations, h-index: 9.

### ISI indexed works

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1. Muntean Mircea-Valentin, Marian, Ovidiu, Barbieru, Victor, Catunescu, Giorgiana M., **Ranta Ovidiu**, Drocas, Ioan, Terhes, Sorin, *Assessment Method of Coverage Degree for Pneumatic Sprayers Used in Orchards* 2016, Agriculture and Agricultural Science Procedia, Volume: 10 DOI: 10.1016/j.aaspro. 2016.09.077. **(Indexata ISI)**
2. Ghețe Alexandru Bogdan, Has Voichita, Vidican, Roxana Copandean, Ana, Ranta Ovidiu, Moldovan Cristina Maria, Crisan Ioana, Duda Marcel Matei, 2020, *Influence of Detasseling Methods on Seed Yield of Some Parent Inbred Lines of Turda Maize Hybrids* AGRONOMY-BASEL Volume: 10 DOI: 10.3390/agronomy10050729 **(F=2,603)**.
3. Cirebea, Mirela, Rotar, Ioan, Vidican, Roxana, Plesa, Anca, Morea, Adriana, **Ranta Ovidiu\***, 2020 *Impact of organo-mineral fertilization upon phytocoenosis and feed quality of the grasslands in the region of Transylvania* Romanian Agricultural Research 37 **(F=0,5)**.
4. Ranta Mirela, Rotar Ioan, Vidican Roxana, Malinas Anamaria, **Ranta Ovidiu\***, Lefter, Nicoleta, 2021, *Influence of the UAN Fertilizer Application on Quantitative and Qualitative Changes in Semi-Natural Grassland in Western Carpathians*, AGRONOMY-BASEL Volume: 11, Issue: 2 DOI: 10.3390/ agronomy11020267 (F=3,417).
5. **Ranta O**, Marian O, Muntean MV, Molnar A, Ghețe AB, Crişan V, Stănilă S, Rittner T. *Quality Analysis of Some Spray Parameters When Performing Treatments in Vineyards in Order to Reduce Environment Pollution. Sustainability*. 2021; 13(14):7780. **(F=3.251)**.
6. **Ovidiu Ranta**, Alexandru Ghețe, Sorin Stănilă, Mircea Muntean, Ovidiu Marian, Adrian Molnar-Irimie\* *Influence Of Design Of The Disk Furrow Opener Of No-Till Sowing Machines On The Seedbed Quality* 2021, NARDI FUNDULEA, ROMANIA ROMANIAN AGRICULTURAL RESEARCH, NO. 38, 2021 www.incda.ro/fundulea.ro Print ISSN 1222-4227; Online ISSN 2067-5720 **(F=0,5)**.
7. **Roman, Alin Raoul**, Ranta, Ovidiu, Vac, Calin, Roman, Ioana, *INCREASE THE EFFICACY OF WEED CONTROL FROM WHEAT CULTURE USING THE ASYMMETRICAL TWIN FLAT SPRAY AIR INJECTOR NOZZLES - IDTA*, NARDI FUNDULEA, ROMANIA ROMANIAN AGRICULTURAL RESEARCH, NO. 38, 2021 **(F=0,5)**.
8. Roxana Vidican, Anamaria Mălinaş \*, **Ovidiu Ranta**, Cristina Moldovan, Ovidiu Marian, Alexandru Ghețe, Ciprian Radu Ghișe, Flavia Popovici, Giorgiana M. Cătunescu, 2023, *Using Remote Sensing Vegetation Indices for the Discrimination and Monitoring of Agricultural Crops: A Critical Review*, Agronomy 2023, 13(12), 3040 (F=3,417).
9. Mircea-Valentin MUNTEAN, **Ovidiu RANTA**, Ovidiu MARIAN, and Vlad STOIAN, 2023, *Characteristics of Raw Milk from Vending Machines in the Transylvania region, Romania* BULLETIN OF UNIVERSITY OF AGRICULTURAL SCIENCES AND VETERINARY MEDICINE CLUJ-NAPOCA. FOOD SCIENCE AND TECHNOLOGY Vol. 80 No. 2 (2023) **(F=0,7)**

### Articles in extenso BDI published in journals indexed in international databases

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1. **Ranta, Ovidiu.**, Drocaş, I., Stănilă, S., Molnar, A., Marian, O. 2009, *Influence of disc kinematic regime used in no-tillage technology on germinative bed cone index*; Bulletin of University of Agricultural Sciences and Veterinary Medicine Cluj-Napoca, vol. 66(1)/2009, Editura AcademicPres, Cluj-Napoca, (Index Copernicus, CAB).
2. **Ovidiu RANTA** , Ioan DROCAŞ, Sorin STĂNILĂ, Adrian MOLNAR, Mircea Valentin MUNTEAN, 2011, *Analysis of Working Qualitative Parameters for No-Till Machines*, Bulletin UASVM Agriculture, 68(1) Index Copernicus, CAB, EBSCO.
3. **Ovidiu RANTA**, Ioan DROCAŞ, Ovidiu MARIAN, Adrian MOLNAR, Sorin STANILĂ, Mircea MUNTEAN, 2012, *Variation of transversal distribution uniformity for EEP-600me in corelation with boom stability*, Research Journal of Agricultural Science, 44 (1), pag.289, Timisoara,.

4. **Ovidiu RANTA**, Ioan DROCAȘ, Sorin STĂNILĂ, Adrian MOLNAR, Mircea MUNTEAN, Ovidiu MARIAN, 2012, The Main Advantages of E-Drive System Used for Precision Seeding , Bulletin UASVM Agriculture 69(1) Print ISSN 1843-5246; Electronic ISSN 1843-5386.
5. **RANTA Ovidiu**, Ioan DROCAȘ, Sorin STĂNILĂ, Adrian MOLNAR, Mircea MUNTEAN, Ovidiu MARIAN, 2013 Comparative Analysis of Distribution Devices Used for Precision Sowing Machines, ProEnvironment 6, Cluj Napoca, Romania, ISSN 2066-1363, Index Copernicus, CAB, EBSCO
6. **RANTA Ovidiu**, Ioan DROCAȘ, Sorin STĂNILĂ, Adrian MOLNAR, Mircea MUNTEAN, Ovidiu MARIAN 2013, Influence the Coulter Type on the Seed - Soil Contact in No-till Technology, Bulletin UASVM serie Agriculture 70(1), 173-179, Print ISSN 1843-5246; Electronic ISSN 1843-5386 Index Copernicus, CAB, EBSCO.
7. **Ranta, Ovidiu**, I. Drocaș, S. Stănilă , A. Molnar, Ov. Marian, 2008, FIELD EXPERIMENTS WITH SPC SEEDING MACHINE MODIFIED FOR NO-TILL TECHNOLOGY: Buletinul USAMV-CN, 65, ISSN 1843-5246 ( Index Copernicus, CAB)
8. Ovidiu MARIAN, Ioan DROCAS, **Ovidiu RANTA**, Mircea MUNTEAN, Adrian MOLNAR, 2011, Determination of vertical Air speed and Analysis of the Liquid Distribution for ATOM 300 Orchard Spraying Machine, Buletin USAMV-CN, 68(1-2) ISSN 1454-2382 pag. 64 Index Copernicus, CAB, EBSCO etc.
9. STĂNILĂ Sorin\*, Ioan DROCAȘ, Adrian MOLNAR, **Ovidiu RANTA**, 2013, Studies Regarding Comparative Fuel Consumption at Classical and Conservation Tillage, ProEnvironment 6 199 - 202, Cluj Napoca, Romania, ISSN 2066-1363, 2013 Index Copernicus, CAB, EBSCO etc.
10. Ioan DROCAS, Ovidiu Marius MARIAN , **Ovidiu RANTA**, Adrian MOLNAR , Mircea MUNTEAN, Giorgiana CĂTUNESCU, 2014, Study on determining the degree of coverage when performing phytosanitary treatments using water sensitive paper, Lucrări Științifice – vol. 57 (1) 2014, seria Agronomie, Iași, Romania, 1454-7414,

### Papers in specialized conferences

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1. Sârb Vasile, Gherman Vasile, Drocaș Ioan, Naghiu Alexandru, Morar Mircea, Naghiu Livia, Bărbieru Victor, **Ranta Ovidiu**, Molnar, A., *Optimization of fodder plant harvesting in the private farms in sub-mountainous areas*, Croatian Symposium on Agriculture, Opatija, 19-23 february 2001, Croatia (BDI)
2. Sârb Vasile, Gherman Vasile, Drocaș Ioan, **Ranta Ovidiu**, Bărbieru Victor, *Kutatások a bSzébetakarítás Modern Technológiájának Alkalmazásáról a Hegyvidéki Gazdaságokban*, Innováció, a Tudomány és a Gyakorlat Egysége az Ezredforduló Agráriumban, Debrecen, aprilis 11-12, 2002 (BDI)
3. Drocaș I. Marian O. **Ranta O.** Molnar A. Stanila S. *Modernizarea masinii EEP-600 in vederea respectarii normelor europene*; Denumire conferinta, organizator, perioada, oras, tara: INMA Bucuresti, Agricultura si Inginerie, Nr.24, Ianuarie 2008 (BDI)
4. Drocaș, I., Gheres M. Marian, O., Molnar, A. **Ranta, O.** Stanila S. *Influenta tipului de duza asupra gradului de acoperire la lucarea de erbicidat* ; Denumire conferinta, organizator, perioada, oras, tara: INMA Bucuresti, Agricultura si Inginerie, Nr.24, Ianuarie 2008 (BDI)
5. Drocaș, I., **Ranta, O.**, Marian, O., Molnar, A. Muntean M. *Utilizarea unui stand modern pentru testarea si diagnosticarea masinilor de tratamente fitosanitare*; Denumire conferinta, organizator, perioada, oras, tara: INMA Bucuresti, Agricultura si Inginerie, Nr.24, Ianuarie 2008 (BDI)

### Short communication

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1. Drocaș, I., Ov. Ranta, V., Sârb, Zs. Buzogany, V., Haitău, I., Vaida, *Testing the sprayng machine EEP-300 in laboratory conditions*, , Buletinul USAMV-CN, 58/2003(-) ISSN 1454-2382
2. Drocaș, I., Marian, O., **Ranta, O.**, Molnar, A., Stănilă, S., Muntean, M. GPS guidance devices used for field crops spraying machines, Bulletin of University of Agricultural Sciences and Veterinary Medicine Cluj-Napoca, vol. 67(1)/2010, Editura AcademicPres, Cluj-Napoca, 2010
3. Drocaș I., Marian O., **Ranta O.**, *Guidance devices for field crops spraying machines*, Buletinul USAMV Cluj-Napoca, Seria Agricultura, 2007.
4. Stanila S., Drocaș I., Molnar A., **Ranta O.**, *Equipment for testing the technical status of spraying machines*, Buletinul USAMV Cluj-Napoca, Seria Agricultura, 2007.
5. Ioan DROCAȘ, Ovidiu MARIAN, **Ovidiu RANTA** , Sorin STĂNILĂ, Mircea MUNTEAN, An Overview of the Gps Uses in Agriculture, Bulletin UASVM Agriculture, 68(1)/2011.
6. Adrian MOLNAR, Ioan DROCAS, **Ovidiu RANTA**, Sorin STANILA Developmento f Softwaref or Soil Compaction Assessment, Buletin USAMV-CN, 68(1-2)/2011 (-) ISSN 1454-2382 pag 88 Index Copernicus, CAB, EBSCO etc.
7. Ovidiu MARIAN, Ioan DROCAS, **Ovidiu RANTA**, Adrian MOLNAR, Mircea MUNTEAN, Systems Used in Precision Agriculture, Bulletin of the University of Agricultural Sciences & Veterinary Medicine Cluj-Napoca. Agriculture . 2012, Vol. 69 Issue 1, p295-296. 2p.
8. Adrian MOLNAR, Ioan DROCAS, **Ovidiu RANTA**, Sorin STANILA Developmento f Softwaref or Soil Compaction Assessment, Buletin USAMV-CN, 68(1-2)/2011 (-) ISSN 1454-2382 pag 88 Index Copernicus, CAB, EBSCO etc.
9. Sorin STANILA., Ioan DROCAS, **Ovidiu RANTA**, Adrian MOLNAR, Mihaela NAGY, Studies Regarding comparative Analysis of Main working Indicators at primary soil Tillage's, Buletin USAMV-CN, 68(1-2)/2011 (-) ISSN 1454-2382 , pag. 114,

## ● ADDITIONAL INFORMATION

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### Training courses abroad

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1. Post-graduate scholarship in the European Socrates-Erasmus Program at the Institute of Mechanization, Hohenheim University, Stuttgart, Germany.
2. Mobility Socrates Erasmus Teacher (TS), Hohenheim University, Stuttgart;
3. Specialization-research internships at Hohenheim University Stuttgart,
4. Research internships Lechler Company, Metzingen, Germany;
5. Maintenance and operation courses for forage harvesters, Krone, Spelle, Germany
6. Course for the operation of grain drying facilities, Mepu Company, Finland
7. Member of the Agritechnica Innovation Commission

### Awards and Diplomas

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1. Certificate of participation Krone-Service-Taining 15.09.-18.09.2008, Maschinenfabrik Bernard Krone, Germany
2. Certificate of participation "Relationship between Environment & Agriculture & Industry: Conflict and Synergy" dedicated to World Environment Day, 1st Edition Cluj-Napoca. 02.06.2009.
3. Diploma TOOPS - WATER PROTECTION COURSE (DiSAFA - University of Turin 15 / 18th June 2015 Grugliasco, Italy).
4. Certificate of participation in the workshop "Skills and competencies needed on the labor market" within the CNFIS-FDI project 2016-2018 on 11/22/2016
5. Certificate of participation in the managerial skills development session held in Cluj-Napoca on October 22-25, 2018.
6. Diploma of participation in the E-Learning and Blended-learning training course, within the POCU project- Education and competitive training on the labor market-EduForm- MySmis code 121643 during 08.04.2019-25.04.2019.
7. Certificate of participation in the POCU project - Education and competitive training on the labor market- EduForm-MySmis code 121643, between 08.04-07.07.2019.
8. Certificate of participation "Technische Spezialisierung für Futter-Aufbereitungs-Systeme 03.07.2019-04.07.2019, Germany.
9. Diploma of participation in the training course Diagnosis and adjustment of turbochargers, 29.02.2020, organized at the Faculty of Mechanics Craiova by the Association of Specialists in Romania in partnership with Garage Training.
10. Diploma of participation in the training course Exhaust gas treatment systems (diesel Euro 5-6) - Particle Filters (DPF) - Selective Catalytic Reduction (AdBlue), 29.02.2020, organized at the Faculty of Mechanics Craiova by the Association of Specialists in Romania in partnership with Garage Training.
11. Diploma of participation in the training course Diagnosis of Bosch CRS-3 common-rail injectors, 29.02.2020, organized at the Craiova Faculty of Mechanics by the Romanian Association of Specialists in partnership with Garage Training.
12. Diploma of participation in the training course Electronic management and diagnosis of the exhaust system - gas treatment DOC / DPF / SCR, Demo vehicle: VW Passat-2.0TDI-CR-EURO 6, supported by GARAGE TRAINING, Cluj-Napoca, 07.03. 2020.

## ● PROFESSIONAL ASSOCIATIONS

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### Nation

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1. Member of the Romanian Society of Agricultural Mechanical Engineers (SIMAR).
2. Member of the General Association of Romanian Engineers (AGIR).
3. Member of the Romanian National Society for Soil Science (SNRSS).
4. Member of the Romanian Meadow Society.
5. Romanian Agricultural Press Association.

### International

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1. Deutsches Landwirtschaft Gesellschaft-DLG.
2. Verein Deutscher Ingenieure-VDI.
3. European Society of Agricultural Engineers (EURAGENG).
4. International Commission on Agricultural and Biosystems Engineering (CIGR)

## ● RESEARCH CONTRACTS

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### Director / International Project Manager

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1. TOPPS contract with ECPA Brussels, 2015-2018.
2. Train operators to Promote best Practices and Sustainability - TOOPS, 2019.
3. Train Operators to Promote Best Practices and Sustainability (TOPPS - Best Management Practices) with ECPA Brussels through AIPROM Bucharest, 2020.

### Director / Head of national projects

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1. Research on the mechanization of direct sowing technology and its extension in Romania, Project Director AT, 2001.
2. Eco-nano-technologies and intelligent equipment for mapping soil properties and evaluation in plant dynamics, in order to streamline agricultural production and environmental protection (INMA Bucharest), 2018.
3. Director Proiect Banca Transilvania 2023.
4. Director proiect Scoala Rascruci Servicii de instruire practica conducere tractoare 2023

### Member of research teams

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1. Innovation checks project, UEFISCIDI code PN-II-IN-CI-2013-1-0007, contract 196CI / 22.10.2013 (2013-2014): Implementation of conservative agricultural technologies for spring crops.
2. Innovation checks project, UEFISCIDI code PN-II-IN-CI-2013-1-0007, contract 196CI / 22.10.2013 (2013-2014): Implementation of conservative agricultural technologies for spring crops.
3. Contract with the World Bank and the Government of Romania through MAPDR-UMP: Extension of new, unconventional tillage technologies that ensure the reduction of energy consumption, prevent soil erosion and avoid environmental pollution. Project no. 913, odern de GRANT no. 1496 / 23.09.2002.
4. CEEX Project, Module I, MEC-CNMP, (2005-2008): contract no. 44 / 10.10.2005, entitled: Improvement, conservation and recovery of degraded soils through anthropogenic intervention in agroecosystems in hilly areas, to increase the quality of life and environmental protection
5. CNCSIS Grant type At Experimental research on the possibilities of using soil conservation technologies in order to reduce energy consumption and costs for hilly areas CNCSIS CODE 415/2002 and 148/2003
6. CEEX Project, Module I, MEC - AMCSIT: Research and development of pottery techniques and application equipment for potato crop maintenance in pottery. Contract no. 66 / 4.10.2006
7. CNCSIS type A grant: Testing and diagnosing the technical condition of machines for phytosanitary works in order to reduce environmental pollution. CNCSIS CODE 894/2007
8. Research on the influence of wheel-soil interaction on agricultural soil compaction "CNCSIS Grant (TIP At, approved 2002-2003, code 397, 145):
9. Expert system for monitoring risks in agriculture and adapting conservative agricultural technologies to climate change Collaborative Applied Research Projects: PN-II-PT-PCCA-2013-4-0015, Contract no. 175/2014
10. Implementation of conservative agricultural technologies for spring crops. Beneficiary SC Nora Ly Agroserv SRL Viișoara, Cluj County Innovation Check Project, UEFISCIDI (2013-2014): PN-II-IN-CI-2013-1-0007, c. 196CI / 22.10.2013-2014
11. Implementation of the technology of direct sowing for the last crops Consulting and Research Contract no. 3812 / 31.03.2014, Beneficiary SC Pombis SA
12. Supporting scientific research activities in the fields of agriculture and environmental protection by developing modern technologies for the application of mineral fertilizers with the aim of preserving the environment and increasing agricultural production, Contract Foundation READ No.2362 of 26.02.2014
13. Micropropagation laboratory optimization, PN-III-P2-2.1-BG-2016-0046, Contract no. 5BG / 2016
14. turns
15. POC Greentop-Agrobiodiversity Innovative Technology Project
16. BanatGreenDeal project

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