


Curriculum vitae Europass	
Personal Information	
Name / Surname	Valeriu DULGHERU
E-mail	Valeriu.dulgheru@bpm.utm.md
Citizenship	Romanian
Date of birth	Mars 09, 1956
Address	2043 Republic of Moldova. Chisinau. N. Milescu Spătaru Nr.9, app.200
Place of birth	Moldavian SSR, village Carpești, district Cantemir (Former USSR)
Desired employment / Occupational field	Technical University of Moldova, Mechanical and Industrial Engineering, Transports, 2045, Chisinau, Studenților street, no. 9/8, phone +373 22 509988 Performance: Monographs, manuals - 38; books- 23; papers/articles published: more 500; Patents: 191; contracts scientific 69 (in 9 - Director); publications in press: more 1000.
Professional Experience	
Period	2019-1995
Position held	Head of Department "Fundamentals of machine design" (2014-present) Head of the chair "Theory of Mechanisms and machine parts" (2014-1995)
Period	2010-present
Occupation	PROFESSOR
Main activities and responsibilities	- Teaching (teaching course "Applied Mechanics", "Technical Creativity" (1-st Cycle); Methodology of Scientific research and Technical Creativity", "Aeolian Energy Conversion Systems" (2-nd Cycle); "History and Methodology of Scientific Research" (doctoral studies). - Member of the Commission of Experts, National Commission for Attestation and Accreditation, Republic of Moldova. 2010-2014.

	<ul style="list-style-type: none"> - Expert UEFISCDI, Romania, 2015-present. - Activity Research (State national programs, international projects, student creativity circle "Mechanical systems"). - Activity Management: Chief of the Technical Creativity Centre.
Name and address of employer	Technical University of Moldova, Faculty of Mechanical and Technological Engineering, Transports. 2004, 168, Ștefan cel Mare Av.
Type of business or sector	Long university education, master at / Department "Fundamentals of machine design", Methodology of Scientific research and Technical Creativity", "Aeolian Energy Conversion Systems".
Period	2010-1991
Occupation or position held	ASSOCIATE PROFESSOR
Main activities and responsibilities	<ul style="list-style-type: none"> Teaching (teaching course "Parts of Machines", "Applied Mechanics", "Technical Creativity" (1-st Cycle); Methodology of Scientific research and Technical Creativity", "Aeolian Energy Conversion Systems" (master studies); "History and Methodology of Scientific Research" (doctoral studies). - Activity Research (State national programs, international projects, student creativity circle "Mechanical systems"). - Activity Management: Chief of the Technical Creativity Centre. Coordination of Creativity Sunday School for children. - President of the Commission of Experts, National Commission Attestation and Accreditation, Republic of Moldova. 2010-2014.
Name and address of employer	Technical University of Moldova, Faculty of Mechanical and Technological Engineering, Transports. 2004, 168, Ștefan cel Mare Av.
Type of business or sector	Long university education, master at / Department "Fundamentals of machine design", Methodology of Scientific research and Technical Creativity", "Aeolian Energy Conversion Systems".
Period	1991-1981
Occupation or position held	Engineer, PhD student (1982-1985), lecturer, senior lecturer at the chair " <i>Theory of Mechanisms and Parts of Machines</i> ", Chisinau, Moldavian SSR (Former USSR).
Main activities and responsibilities	<ul style="list-style-type: none"> Teaching (teaching course "Parts of Machines", "Theory of Mechanisms and Machines". Activity Research (Research programs of former USSR).
Name and address of employer	Polytechnic Institute from Chișinău, Faculty of Mechanics. 2004, 168, Ștefan cel Mare Av.
Type of business or sector	
Period	1981-1978
Occupation or position held	Engineer at the Tractor Factory from Chișinău.
Main activities and responsibilities	Technological equipment design.
Name and address of employer	MD 2004, Moldova, Chisinau, Tractor Factory, Ministry of Industry from Moldavian SSR (Former USSR).
Type of business or sector	Technical Management.

Education AND training	
Dates	June 1995 - Certificate of Doctor habilitat (Dr.Sc.) engineer the Supreme Attestation Commission Decision 19 of 22 June 1995 (Chişinău, Republic of Moldova). Theme of dissertation: "Statics and Dynamics of Planetary Precessional Transmissions" Dr.Sc. thesis / assoc.prof. Valeriu Dulgheru. Advisor: Dr.Sc. prof. Ion Bostan. - Chişinău: Technical University of Moldova, 1995. 376p: Fig., Tab. DH nr. 000055
Principal subjects / occupational skills	Elaboration of new structure of planetary precessional transmissions, fundamental of statics and dynamics.
Name and address of employer / training provider	Technical University of Moldova, Faculty of Mechanical and Technological Engineering, Transports. 2004, 168, Ştefan cel Mare Av.
Level in national or international classification	Postgraduate doctoral
Dates	May 1987 - Certificate of PhD engineer the Supreme Attestation Commission Decision nr. 25 of 14 May 1987 (Vladimir, USSR). Theme of dissertation: " <i>Research of kinematical precision of planetary precessional transmissions</i> " PhD thesis / ing. Valeriu Dulgheru, Advisor: dr.prof. Gluşco C.: Polytechnic institute from Vladimir, Russia, 1987. 120 F. typing. : Fig., Tab. TH N. 102893
	<p>1996 - Courses on the International Commercialization of Science and Technology: protection of Intellectual Property", United Nations Program for Development, Minsk, Bielarusi, (30h.);</p> <p>1997 - Courses "Higher Education Polisy and Institutional Decision Making",SEU. Summer University, Budapest, Hungary. (80h.);</p> <p>1998 - Courses "Maintenance et controle de la qualite" - Module Francophone C.E.S.MECA-UTM. (40 h.);</p> <p>2009 - Courses on the International Commercialization of Science and Technology: protection of Intellectual Property", WIPO Program, Baku, Azerbaijan (40 h.);</p> <p>2010 - Courses on the International Commercialization of Science and Technology: protection of Intellectual Property", OMPI Program, Frunze, Kyrgyzstan (40 h.).</p> <p>1985-1982</p>
Principal subjects / occupational skills	Doctorate. Frequency section. Develop the thesis " <i>Research of kinematical precision of planetary precessional transmissions</i> "
Name and address of employer / training provider	Polytechnic Institute from Chişinău, Faculty of Mechanics. 2004, 168, Ştefan cel Mare Av.
Level in national or international classification	Postgraduate doctoral
Personal skills and competences	Specialization in the field "Planetary Precessional Transmissions".

Dates	1978-1973						
Principal subjects / occupational skills	University. Mechanical engineer. Specialization "Machine building technology" Bachelor's degree						
Name and address of employer / training provider	Polytechnic Institute "Serghei Lazo" of Chisinau, Moldavian SSR Faculty of Mechanical Engineering.						
Level in national or international classification	University						
Dates	1973-1963						
Principal subjects / occupational skills	High school education. Graduation Certificate						
Name and address of employer / training provider	High school of villaje Carpești, district Cantemir, Moldavian SSR (Former USSR).						
Level in national or international classification	High school						
Personal skills and competences of							
Mother tongue	Romanian						
Self	Understanding		Speech			Writing	
European level (*)	Listening		Read		Conversation		Spoken
Russian	C2		C2		C2		C2
French	A2		A2		A2		A2
English	B1		B1		B1		A2
	(*) Common European Framework of R's conferences for Languages						
Social skills and competences	1989 - member of the Popular Front of MSSR 1994 - member of the Party of Democratic Force of Republic of Moldova 2006 - Vice President of the Association "Democratic forum of Romanian from Moldova".						
Organizational skills and competences	Collective coordinator, research, project research						
Technical skills and competences	New mechanical systems, mechanical transmissions, renewable energy conversion systems, mechanical engineering, research and design, technical creativity.						
Skills and Computer	PC skills: Word, MS Office (Power Point, Excel), SolidWorks, Adobe Acrobat etc., User level.						
Artistic skills and competences	Sport, publicist (publishing over 1000 articles in newspapers, publishing 23 books).						
Other skills and competences	License (s) driving Driving license cat. B						
Attachments	<ol style="list-style-type: none"> 1. List of published scientific 2. List of Patents 3. Research Contracts List 						

National and international reputation, honors, awards:

- State Prize of Moldova on Science and Technics (1998);
- Honorary Inventor of the Republic of Moldova (1995);
- Honorary Inventor of Romania (1994);
- II Grand Prize, the World Exhibition of Technical – Scientific Achievements INPEX-XII, Pittsburg, USA (1996);
- Gold Medal OMPI (Organisation Mondiale de Propriete Intellectuelle), 2004;
- Merite de l'Innovation, Diplome de CHEVALIER, medal of the Kingdom of Belgium (2008);
- Inventor of the Year, Republic of Moldova, 2006.
- Awarded Golden Henry Coanda medal for succes in technical activity (1996);
- Awarded order „Leonardo da Vinci”, Iași, România, 2008;
- Awarded order „Gogu Constantinescu”, Cluj Napoca, România, 2013.
- Prize OMPI for the good inventor, the International Exhibition of Inventions, Geneve (2013);
- Awarded State Order “Work Merit” (2014);
- Awarded Prize of Moldavian Academy of Sciences in Engineering Sciences „Ion Hăbășescu”, 2018.
- D.H.C., Technical University „Gh. Asachi”, Iassy, Romania (2015).
- Honorary Member of the Academy of Technical Sciences of Romania, 2015.
- „Dimitrie Cantemir” medal. Moldavian Academy of Sciences, 2016.
- Dorel Cernomazu Inventor Plaque, “Ștefan cel Mare” University, Suceava, 2018.
- Laureate of weekly “Literatura si Arta” for the years 1998, 1999, 2000,2002, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2014, 2015, 2016, 2017, 2018, 2019, 2020.
- Included in the book "Enciclopedia identității românești. Personalități". Ed. Litera International, București, 2011. P. 283. ISBN 978-606-600-246-2.
- Included in the book "Dictionary of Contemporary Romanian inventors' vol I. Pg. 224-225, revised and enlarged edition. Coordinator Emil Constantin Stanciu, ed. RISOPRINT, Cluj-Napoca, 2007.
- Included in the book "Dictionary of Contemporary Romanian inventors' vol IV. Pg. 186-262, revised and enlarged edition. Coordinator Emil Constantin Stanciu, ed. RISOPRINT, Cluj-Napoca, 2015.
- Included in the book "Distinguished Romanian Professors, Vol. III. Pg. 86-88. Coordinator prof. Virgil Mîndicanu, ed. Pontos, Chișinău, 2016.
- Included in the book “Gold Medal Laureates of World Intellectual Property Organization (Moldova)”. Coordinator: A. Fodea. Ed. AGEPI, Chișinău, 2011. Pp. 29-30.
- Included in the book “Researcher and Inventors from Republic of Moldova”. Part I. Coordinator: A. Zavalistăi, A. Mihai. Ed. AGEPI, Chișinău, 2003. Pp. 54-55.
- Included in the book “Calendar Național”. Coordinator: A. Rău. Ed. AGEPI, Chișinău, 2006. Pp. 78-80.
- Awarded by about 250 golden and silver medals for taking part at International Exhibitions of inventors: EUREKA 94,95,96,97,98,99, 2000, 2001, 2004,2006,2007, 2008, 2009, 2010, 2011,2012,2013 Bruxelles; INPEX XII, XIII, XIV, Pittsburgh USA (1996, 1997, 1998, 1999, 2006, 2007); 42th Air Show Paris “Le Bourget”; Casablanca, Maroco (1998); Geneva (1999, 2000, 2001, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014); ProInvent (2007-2020), Cluj Napoca, Romania; Inventica (1992, 1994, 1996, 2008-2019), Iași, Romania; Infolvent (1998-2019), Chisinau, Republic of Moldova; EuroInvent (2009-2020); IWIS (2012-2013), Warszawa, Poland; Arhimed (2008-2017), Moskow, Russia; Novii Cheas (2007-2013), Sevastopol, Ucraina; UGAL (2018-2019), Galați, Romania.
- **1985** – „Economy, Science and Technology of MSSR” Exhibition, Dalat, Vietnam World Exhibition of Young Inventors “Bulgaria-85”, Plovdiv, Bulgaria.
- **1987** – „Higher Education in the USSR” Exhibition, Hanoi, Vietnam.
“Higher Education in the USSR” Exhibition, Athens, Greece.
- **1987** – “70-th anniversary of the USSR” Exhibition, Moscow, USSR.
“Economy, Science and Technology of MSSR” Exhibition, Ulan-Bator, Mongolia.
“Economy, Science and Technology of MSSR” Exhibition, Sofia, Bulgaria.
“NTR-87” Exhibition, Moscow, USSR.
- **1988** – Soviet Inventions Exhibition, Budapest, Hungary.
- **1988** – Technical Innovations INVECS-88, Brno, Czechoslovakia
- **1989** – Fall International Fair, Leipzig, German Democratic Republic
- **1989** – “From Fundamental Research to Implementation into Production” Exhibition, Moscow, USSR.

1989 – Mobile Trade Exhibition, German Democratic Republic – Czechoslovakia – Hungary.
1990 – Exhibition of Technical-Scientific Achievements, New Delhi, India.
1990 – International Fair SIRIA-90, Damascus, Syria.
1990 – “Science and Technology in the USSR” Exhibition, Vienna, Austria.
1993 – Seoul International Inventions Fair, Seoul, South Korea.
1992, 1994, 1996 – International Exhibition on Inventions, Research and Technological Transfer, Iasi, Romania (**3 gold medals**).
1994-2013 – International Exhibition on Inventions, Research and Technological Transfer EUREKA, Brussels, Belgium, (**10 gold medals, 3 silver medals**).
1991-2014 – International Exhibition on Inventions, Geneva, Switzerland (**7 gold medals, 6 silver medals, 1 special prize**).
1995 – International Exhibition on Inventions for Young Inventors, UNESCO, Iasi, Romania (**gold medal**).
1997 – Le Bourget Airspace Show, Paris, France.
1998 – International Exhibition on Inventions, Research and Technological Transfer, Casablanca, Morocco, (**gold medal**).
1996-1999, 2005, 2006 – International Exhibition on Inventions and Technological Transfer INPEX, Pittsburgh, the USA (**Grand Prix II, 4 gold medals and 2 silver medals**).
1999-2005, 2009, 2011, 2013, 2015, 2017 – INFOINVENT International Exhibition, Chisinau, Republic of Moldova (**19 gold medals, 13 silver medals and 9 bronze medals**).
2000 – „Expo-2000” International Exhibition, Hanover, Germany.
2003, 2005, 2007, 2009 – ECOINVENT International Exhibition, Iasi, Romania (**Gold Medal with distinction, 6 gold medals, 3 silver medals, 2 Special Awards**).
2006, 2008, 2009, 2010, 2011, 2012, 2014-2019 - International Exhibition on Inventions and Technological Transfer INVENTICA, Iasi, Romania (**21 gold medals, 4 special awards: OSIM, Romania, National Institute of Inventions, Iasi, Romania**)
2006, 2007 – International Exhibition on Inventions and New Technologies INVENTICA, Bucharest, Romania (**gold, silver and bronze medals**)
2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013 – International Exhibitions on Inventions and New Technologies „Novii ceas”, Sevastopol, Ukraine (**14 gold medals, 6 silver medals, 5 Special Awards**).
2006 – International Exhibition on Inventions and Innovations „Vinahodi Innovacii”, Kiev, Ukraine.
2007, 2008, 2009, 2010, 2011, 2012, 2013- 2017 – International Exhibitions „Moscow International fair on Industrial Property – Archimedes” (**5 gold medal, 6 silver medals, 2 bronze medals, 6 special prizes**).
2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020 – International Exhibition on Inventions PROINVENT, Cluj-Napoca, Romania (**31 gold medals, 11 silver medals, 2 bronze medal, 8 special prizes**).
2008 - International Exhibition „Machine building Industry. Materials Processing, machine tools and instruments”, Chisinau, MoldExpo (**3 diplomas of the Chamber of Commerce and Industry**).
2008 – The First International Inventor’s Day Convention and the National Inventor’s Day organized by the National Research Council of Thailand (NRCT) (**silver medal**).
The 6th International Exhibition (Suzhou) of Inventions, China (**gold medal, silver medal**).
15th International Exhibition Specialized in „Food & Drinks. Food Technology”, MoldExpo, Chisinau (**Diploma of the Ministry of Agriculture and Food**).
2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020 – European Exhibition of Creativity and Innovation EuroInvent, Iasi, (**Jury Prize for Environmental Protection, 25 gold medals, 11 silver medals, 3 bronze medal and Diploma of excellence**).
2012, 2013 – The International Warsaw Invention Show (**4 gold medals, 2 silver medal and 2 special awards**)
2012 – The International Federation of Inventors Associations **Glory Medal**
2013 – **Prize** of the 41st International Fair of Inventions, Geneva, Switzerland

LIST
SCIENTIFIC PAPERS PUBLISHED
Professor, PhD, Dr.Sc. Valeriu DULGHERU

Books published: (35 books, selections):

1. **DULGHERU V.** The basics of creative product development. V. 1. Ch.: BonsOffices, 2020. 462p. ISBN 978-9975-87-737-4.
2. **DULGHERU V.** The basics of creative product development. V. 2. Ch.: BonsOffices, 2020. 432p. ISBN 978-9975-87-739-8.
3. BOSTAN I., BOSTAN V., **DULGHERU V.**, Sobor I., Secrieru N., Vaculenco M., Ciobanu O., Ciobanu R., Șărbănuț V., Odainăi V., Gladîș V., Candraman S., Margarint A., Ilco V., Levineț N., Girsca A. Integrated autonomous irrigation system with renewable energy conversion installations: wind, solar, hydraulic (with monitoring and remote control). Chișinău. Bons Offices, 2017. 80p. ISBN 978-9975-87-321-5.
4. Bostan, I., Gheorghe, A., **Dulgheru, V.**, Sobor, I., Bostan, V., Sochirean, A. Resilient Energy Systems. Renewables: Wind, Solar, Hydro. Springer, VIII, 507 p. 2012. ISBN 978-94-007-4188-1
5. BOSTAN I., **DULGHERU V.**, BOSTAN V. at all. Hydropower serving rural consumers. – Ch. : Bons Offices, 2013. – 52 p.
6. Bostan, I., **Dulgheru, V.**, Bostan, V., Ciupercă, R. Anthology of inventions: Renewable energy conversion systems. Vol.3. – Ch.: Bons Offices SRL, 2009.-458pp. ISBN 978-9975-80-283-3.
7. Bostan, I., **Dulgheru, V.**, Sobor, I., Bostan, V., Sochireanu A. Renewable energy conversion systems. – Ch.: Bons Offices SRL, 2007. ISBN 978-9975-63-076-4. - 592 p
8. Bostan I., Gheorghe A., **Dulgheru V.**, Bostan V., Sochireanu A., Dicusară I. *Conversion of Renewable Kinetic Energy of Water: synthesis, Theoretical Modeling, and Experimental Evaluation*. Energy Security: International and Local Issues, Theoretical Perspectives, and Critical Energy Infrastructures (NATO Science for Peace and Security Series C: Environmental Security). Published by Springer. 2011, Pp.125-177. ISBN 978-94-007-0718-4.
9. Bostan, I., **Dulgheru, V.**, Sochirean A., Babaian I. Anthology of inventions: planetary precessional transmissions. Vol.1. – Ch.:S.n., 2011 (Combinatul Poligr.). 2011.-593p. ISBN 978-9975-4100-9-0.
10. Bostan, I., **Dulgheru, V.**, Glușco C., Mazuru S., Vaculenco M. Anthology of inventions: planetary precessional transmissions. Vol.2. – Ch.: Bons Offices SRL, 2011.-537p. ISBN 978-9975-4100-9-0.
11. Bostan, I., **Dulgheru, V.**, Țopa M., Bodnariuc I., Dicusară I., Trifan N., Ciobanu R., Ciobanu O., Malcoci Iu. Anthology of inventions: kinematic planetary precessional transmissions. Vol.4. – Ch.: Bons Offices SRL, 2011.-623p. ISBN 978-9975-4100-9-0.
12. **Dulgheru, V.**, Ciupercă R., Bodnariuc I., Dicusară I. Mechanics Application: design guide. Chisinau, Tehnica, 2009. ISBN 978-9975-45-105-5. 308p.
13. **Dulgheru, V.**, Ciupercă R., Bodnariuc I., Dicusară I. Mechanics Application: design guide. Chisinau, Tehnica, 2008. ISBN 978-9975-63-074-0. 296p.
14. Cantemir L., **Dulgheru, V.**, Carcea M. Initializing in technical creativity. Chisinau, Tehnica-Info, 2008, 282p.
15. Bostan, I., **Dulgheru, V.** From history of technics. Editura UTM, 2007. ISBN 973-31-1400-8. 196p.
16. Gafițanu, M., Bostan, I., Jula, A., Racocea C., Chișu, E., **Dulgheru, V.**, Moldovean, Gh., Hagi, Gh. Part of machines. P.1. Tehnica, Bucuresti, 1999. ISBN 973-31-1400-6. 384p.
17. **Dulgheru, V.**, Cantemir L., Carcea M. Technical creativity: practical guide. Chisinau, UTM, 2005. ISBN 9975-63-06-5. 180p.
18. Gafițanu, M., Bostan, I., Jula, A., Racocea C., Chișu, E., **Dulgheru, V.**, Moldovean, Gh., Hagi, Gh. Part of machines. P.2. Tehnica, Bucuresti, 2002. ISBN 973-31-1400-6. 432p.
19. Bostan, I., **Dulgheru, V.**, Toca, A., Boboc, V., M., Vaculenco, M., Stroncea, A., Pereu, I., Mocreac, S. CAD design in Machine building. Tehnica-Info, 2001. ISBN 9975-63-076-6. 208p.
20. Cantemir L., **Dulgheru, V.**, Carcea M. Practical Inventics. Chisinau, AGEPI, 2000. ISBN 9975-9536-9-7. 267p.

21. **Dulgheru, V.**, Cantemir L., Carcea M. *Book of Creativity*. Chisinau, Tehnica-Info, 2000. ISBN 9975-63-06-3., 256p.
22. **Dulgheru, V.**, Oprea A., Poștaru G., Musteață A. *Mechanics Application*. Chisinau, Tehnica, 1999. ISBN 9975-910-65-3. 284p.
23. Bostan, I., **Dulgheru, V.**, Grigoraș, Ș. *Planetary, precessional and harmonic transmissions*. Bucuresti-Chisinau, 1997. ISBN 973-31-1069-8. 400p
24. **Dulgheru, V.**, Tofan, I. *Principles of engineering creation*. Chisinau, Stiinta, 1992. ISBN 5-376-01576-9. 142p.
25. Bostan, I., Glușco C., Oprea A., **Dulgheru, V.** *Precessional epicyclic gear trains*. Chisinau, Stiinta, 1987, 156p.

BOOKS FOR THE POPULARIZATION OF SCIENCE

1. **DULGHERU V.**, PLĂCINTĂ E. *Ion Valuță: bibliography (vocation, requirement, reason)*. Chisinau UTM 2020. „Bons Offices”. – 165p. ISBN 978-9975-45-649-4.
2. **DULGHERU V.**, Plăcintă E., Plăcintă V., Ciobanu O., Ciobanu R. *Inventors of the Technical University of Moldova. Bibliography of inventions: 1964-2019*. Ch.: [Serebia], 2019 (Tipography „Balacron”. ISBN 978-9975-66-665-7
3. **DULGHERU V.**, STRATAN Z., ZAPOROJAN S., MANOLI I., POPOV L. *A Bessarabian dreamer: in memory of Valerian Dorogan*. Ed. Tehnica-UTM, 2018. 235p. ISBN 978-9975-63-427-4.
4. **DULGHERU V.** *Department "Fundamentals of machine design": 50 years of activity: 1964-2014*. - Ch. : Bons Offices, 2014. – 260 p. - ISBN 878-9975-80-862-0
5. **DULGHERU V.**, Plăcintă E., Rusu A. *Academician Ion Bostan: Biobibliography / Technical University of Moldova*. - Ch. : Bons Offices SRL, 2009. – 432 p. - ISBN 978-9975-80-264-2.
6. **DULGHERU V.**, PLĂCINTĂ E., PLĂCINTĂ V., CIOBANU O., CIOBANU R. *Inventors of Technical University of Moldova. Bibliography of inventions, 1964-2019*. Ch.: „Balacron”. ISBN 978-9975-66-665-7
7. **DULGHERU V.**, Plăcintă E., Rusu A. *Academician Ion Bostan: Biobibliography / Technical University of Moldova*. – Ch. : „Serebia”, 2019. - 464 p. (4415 inventions). - ISBN 978-9975-66-665-7.
8. **DULGHERU V.**, Plăcintă E. *Constantin Glușco: Biobibliography*. - Ch.: Technical University of Moldova, 2010. - 72 p. - ISBN 978-9975-45-000-3.
9. **DULGHERU V.** și a. *The secret of writing. One hundred writers. Anthology. Essays on literary motivation*. Vol. 2. Publishing ANAMAROL, București, 2019. Pp.265-270.
10. **DULGHERU, V.** *History of the Republic of Moldova*.– Ch.: „Tehnica INFO”, 2018. – 550 p. ISBN 978-9975-63-422-9
11. **DULGHERU, V.** *The Integral History of Bessarabia*.– Ch.: „Serebia”, 2016. – 388 p. ISBN 978-9975-4374-4-8
12. **DULGHERU, V.** *From the history of the Nation*.– Ch.: „Tehnica Info”, 2010. – 112 p. ISBN 978-9975-9864-3
13. **DULGHERU V.** *The crimes of communism: the roots of communism, red terror, Stalinist terror, the crucifixion of Bessarabia*. Ch.: UTM. 2011, 310 p. ISBN 978-9975-45-151-2
14. **DULGHERU V.** *The Bessarabian Romanians and the s(c)lav from them*.– Ch.: Tehnica Info, 2011. – 220 p. ISBN 978-9975-9864-3
15. **DULGHERU V.** *200 years of the crucifixion of Bessarabia*.– Ch.: Tehnica Info, 2012. – 110 p. ISBN 978-9975-45-214-4
16. **DULGHERU V.** *The history that was stolen from us*.– Ch.: Tehnica Info, 2013. – 106 p. ISBN 978-9975-9864-3
17. **DULGHERU V.** *Crucified Bessarabia (16)*. Ch.: Serebia (tipography „Balacron”), 2020. – 304p. ISBN 978-9975-936-97-2.
18. **DULGHERU V.** *Crucified Bessarabia (15)*. Ch.: Serebia (tipography „Balacron”), 2019. 288 p. ISBN 978-9975-45-215-1
19. **DULGHERU V.** *Crucified Bessarabia(14)*. Ch.: Tehnica UTM, 2018. – 288 p. ISBN 978-9975-45-215-1
20. **DULGHERU V.** *Crucified Bessarabia(13)*. Ch.: Tehnica UTM, 2017. – 316 p. ISBN 978-9975-45-215-1
21. **DULGHERU V.** *Crucified Bessarabia(12)*. Ch.: Tehnica UTM, 2016. – 264 p. ISBN 978-9975-45-292-2
22. **DULGHERU V.** *Crucified Bessarabia(11)*. Ch.: Tehnica UTM, 2015. – 256 p. ISBN 978-9975-45-292-2
23. **DULGHERU V.** *Crucified Bessarabia(10)*. Ch.: Tehnica UTM, 2014. – 279 p. ISBN 978-9975-45-292-2
24. **DULGHERU V.** *Crucified Bessarabia(9)*. Ch.: Tehnica UTM, 2013. – 246 p. ISBN 978-9975-45-215-1
25. **DULGHERU V.** *Crucified Bessarabia(8)*. Ch.: Tehnica UTM, 2012. – 225 p. ISBN 978-9975-45-193-2

26. **DULGHERU V.** Crucified Bessarabia(7). Ch.: Tehnica UTM, 2011. – 284 p. ISBN 978-9975-9864-3
27. **DULGHERU V.** Crucified Bessarabia(6). Ch.: Tehnica Info, 2010. – 262p. ISBN 978-9975-9864-3
28. **DULGHERU V.** Crucified Bessarabia(5). Ch.: Tehnica Info, 2009. – 198p. ISBN 978-9975-9864-3
29. **DULGHERU V.** Crucified Bessarabia(4). Ch.: Tehnica Info, 2008. – 173p. ISBN 978-9975-9864-3
30. **DULGHERU V.** Crucified Bessarabia(3). Ch.: Editura UTM, 2007. – 188p. ISBN 978-9975-9864-3
31. **DULGHERU V.** Crucified Bessarabia(2). Ch.: Editura UTM, 2006. – 312p. ISBN 978-9975-9862-3-6
32. **DULGHERU V.** Crucified Bessarabia(1). Ch.: Editura UTM, 2003. – 272p. ISBN 978-9975-9848-8-0

Articles (560 articles, selections):

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2. BOSTAN V., BOSTAN I., RABEI I., GUTU M., **DULGHERU V.** Vertical Axis Wind Turbines. Optimal Positioning of the Blades Defined by Asymmetrical Airfoils / In: Solar Energy Conversion in Communities. Proceedings of the Conference for Sustainable Energy (CSE) 22-24.10.2020. Editors: Vișa I., Duta A. Publisher: Springer, Cham. Pp. 207-213. DOI <https://doi.org/10.1007/978-3-030-55757-7>. ISBN 978-3-030-55756-0
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Annex 2

Patents (191 patents – USSR, Russia, Romania, Republic of Moldova, selections):

Romania (1 patent and 8 patent applications):

1. Bostan I., Vișa I., **Dulgheru V.**, Ciupercă R. Vertical axis wind turbine (variants). Patent nr. 127909 (RO), CIB F03D 3/02; F16H 48/08; F16H 48/14. The Official Bulletin of Industrial Property, Romania. BOPI 11/2013. P. 45-46.

Russia:

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Republic of Moldova:

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4. BOSTAN, I., VIȘA, I., **DULGERU, V.**, CIUPERCĂ R. Vertical axis wind turbine (variants). Patent nr. 3847 (MD). (Original in Romanian, English and Russian). The Official Bulletin of Industrial Property, Republic of Moldova. BOPI nr.2/2009, pp.37-38.
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9. BOSTAN I., **DULGHERU V.**, DUMITRESCU C., CIOBANU R., CIOBANU O., COZMA I. BI nr. 4419 (MD). Int. Cl. B60K 16/00. *Sun system guidance of a photovoltaic panels* / TUM., Institutul de Cercetări pentru Hidraulică și Pneumatică, București – Nr. deposit a 2015-0114; Data deposit 16.11.2015. BOPI nr. 5/2016. 2016.05.31. Data eliberării brevetului: 2016.07.31.
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11. BOSTAN I., **DULGHERU V.**, PORCESCU G. BI 934Z(MD) CIB. F03D 3/02. *Vertical axis wind plant (variants)* / TUM. – Nr. depozit 2015-0042; Data depozit 26.03.2015; Publ. 31.07.2015. BOPI. – 2015. – Nr 7. – P. 30-31. Data eliberării brevetului: 2016.04.30.
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16. BOSTAN I., **DULGHERU V.**, BOSTAN V., SOBOR I., SOCHIREANU A. Aeolian turbine with horizontal axis. Cl. Int. F03D1/00, F03D 7/04. Patent nr. 4219 B1. BOPI nr. 4/2013
17. BOSTAN VIOREL, CIOBANU OLEG, **DULGHERU VALERIU**, VACULENCO MAXIM, GLADIȘ VITALIE, Floating hydraulic station. Cl. Int. F03B7/00, F03B13/00 Patent nr. 4235. B1. BOPI nr. 5/2013
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20. BOSTAN I., VIȘA I., **DULGHERU V.**, CIUPERCĂ R. NB 3847(MD) CIB F03D 3/00 // F03D 3/06. *Wind turbine with vertical axle (variants)* / TUM - Nr 2007 0134. Decl. 11.05.2007; Publ. BOPI – 2009. - Nr 2.
21. BOSTAN I., GHEORGHE A., **DULGHERU V.**, BOSTAN V., SOCHIREANU A., CIOBANU O., CIOBANU R. NB 3846(MD) CIB F03B 13/00 // F03B 7/00 // F03B 13/18 // F03B 13/22 // F03B 17/06. *Hydraulic station with horizontal axle* / TUM –Nr 2008 0064. Decl. 5.03.2008; Publ. BOPI –2009. Nr 2.
22. BOSTAN I., **DULGHERU V.**, BOSTAN V., SOCHIREANU A., CIOBANU O., CIOBANU R. NB 3845(MD) CIB F03B 13/00 // F03B 7/00 // F03B 13/10 // F03B 13/22 // F03B 17/06. *Hydraulic station* / TUM – Nr 2008 0063 Decl. 5.03.2008; Publ. BOPI – 2009. - Nr 2.
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Annex 3

CONTRACTS OF SCIENTIFIC RESEARCH

Professor PhD, Dr.Sc. engineer

Valeriu DULGHERU

Participating in 67 research projects national and international, inclusively:

1. BOSTAN I., **DULGHERU V.**, VACULENCU M., CIUPERCA R., ODAINAI V. CRDF Grant MP1-2287. *The Elaboration of submersible Robot Complex drive mechanism for Ferro-Manganese Concretion Extraction* (35000 USD).
2. BOSTAN I., **DULGHERU V.**, VACULENCU M., CIUPERCĂ R., ODAINĂI V., BODNARIUC I. CRDF Grant MP2-3023. *The Elaboration and Research of Kinematic Planetary Precessional Transmissions* (38000 USD).
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Pag.18. Curriculum vitae
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