

## Curriculum vitae Europass



### Informații personale

Nume / Prenume

**SĂULESCU RADU GABRIEL**

Adresă(e)

Panseluței, nr.10, sc. A, Ap. 17, Codlea, Brașov, România

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Naționalitate(-tăți)

Română

Data nașterii

6 ianuarie 1976

Sex

Masculin

### Experiența profesională

**Perioada**

2001-2003

Funcția sau postul ocupat

Inginer, doctorand cu frecvență - catedra Design de Produs si Robotică

Activități și responsabilități principale

Cercetare, îndrumător laboratoare

Numele și adresa angajatorului

Universitatea Transilvania din Brasov, B-dul Eroilor, Nr. 29, Brașov, România

Tipul activității sau sectorul de activitate

Activitate de cercetare și didactica în învățământul superior

**Perioada**

2003-2005

Funcția sau postul ocupat

Preparator universitar la Catedra Design de Produs și Robotică

Activități și responsabilități principale

Îndrumător laboratoare de Mecanisme

Numele și adresa angajatorului

Universitatea Transilvania din Brasov, B-dul Eroilor, Nr. 29, Brașov, România

Tipul activității sau sectorul de activitate

Activitate didactică în învățământul superior

**Perioada**

2005-2007

Funcția sau postul ocupat

Asistent universitar la Catedra Design de Produs și Robotică

Activități și responsabilități principale

Cursuri de Designul produselor mecatronice, Mecanisme și îndrumător laboratoare și proiecte

Numele și adresa angajatorului

Universitatea Transilvania din Brasov, B-dul Eroilor, Nr. 29, Brașov, România

Tipul activității sau sectorul de activitate

Activitate didactică în învățământul superior

<b>Perioada</b>	2007-prezent
Funcția sau postul ocupat	Șef de lucrări la Departamentul Design de produs, Mecatronică și Mediu.
Activități și responsabilități principale	Cursuri de Design conceptual, Bazele proiectării de produs, Designul produselor mecatronice, Mecanisme și îndrumător laboratoare și proiecte
Numele și adresa angajatorului	Universitatea Transilvania din Brasov, B-dul Eroilor, Nr. 29, Brașov, România
Tipul activității sau sectorul de activitate	Activitate didactică în învățământul superior
<b>Educație și formare</b>	
<b>Perioada</b>	1996-2001
Calificarea / diploma obținută	Inginer Proiectarea mobilei și a produselor finite din lemn
Disciplinele principale studiate / competențe profesionale dobândite	Mecanisme, Proiectarea mobilei, Construcții case de lemn, Desen ornamental, Masini unelte
Numele și tipul instituției de învățământ / furnizorului de formare	Universitatea Transilvania din Brasov, Facultatea Industria lemnului.
<b>Perioada</b>	2001-2002
Calificarea / diploma obținută	Master Ingineria sistemelor mecanice de transmitere a puterii
Disciplinele principale studiate / competențe profesionale dobândite	Transmisii mecanice, Proptotipare virtuală
Numele și tipul instituției de învățământ / furnizorului de formare	Universitatea Transilvania din Brasov, Facultatea Inginerie Tehnologică.
<b>Perioada</b>	2002
Calificarea / diploma obținută	Informatică aplicată în inginerie
Disciplinele principale studiate / competențe profesionale dobândite	Word, excel, acces, html.
Numele și tipul instituției de învățământ / furnizorului de formare	Universitatea Transilvania din Brasov
<b>Perioada</b>	2001-2004
Calificarea / diploma obținută	Doctor Inginerie mecanică
Disciplinele principale studiate / competențe profesionale dobândite	Aprofundare sisteme mecanice.
Numele și tipul instituției de învățământ / furnizorului de formare	Universitatea Transilvania din Brasov
<b>Perioada</b>	2007
Calificarea / diploma obținută	Bursă de studiu în domeniul energiilor regenerabile
Numele și tipul instituției de învățământ / furnizorului de formare	Agenția Națională de Energie – Austria, Viena
<b>Perioada</b>	2013
Calificarea / diploma obținută	Certificat de absolvire, Programul de formare și conștientizare în asigurarea calității în învățământul la distanță-ID
Numele și tipul instituției de învățământ / furnizorului de formare	Universitatea Spiru Haret
<b>Perioada</b>	2014
Calificarea / diploma obținută	ESEIA International Summer school on Smart Metropolitan Regions of Tomorrow
Numele și tipul instituției de învățământ / furnizorului de formare	Universitatea Transilvania din Brasov

## Aptitudini și competențe personale

Limba(i) maternă(e)  
Limba(i) străină(e) cunoscută(e)  
Autoevaluare  
Nivel european (\*)

Engleza

Româna

Înțelegere		Vorbire		Scriere
Ascultare	Citire	Participare la conversație	Discurs oral	Exprimare scrisă
B2	B2	B2	B2	B2

(\*) Nivelul Cadrului European Comun de Referință Pentru Limbi Străine

Competențe și aptitudini de utilizare a calculatorului

Autocad, Matlab-Simulink, Catia, Word, Excel, PowerPoint

## Informații suplimentare

- Membru ARoTMM (Asociația Română de Transmisii Mecanice și Mecanisme) – filiala IFToMM (International Federation for the Promotion of Mechanism and Machine Science)
- Organizare de evenimente științifice (conferințe, workshop-uri etc. - membru): 3: Conferința internațională SYROM 2009, Conferința internațională SYROM 2013, Conferința internațională CSE 2014
- Winner of Festo young Researcher and Scientist Support Scholarship Award. Vienna 2008
- Director a 2 contracte de cercetare (MECTS), 1 contract științific manager-responsible for chain testing (contract internațional cu mediul economic)

## Anexe

Lista publicații, contracte și brevete  
Monografii: 8, capitole de carte în edituri străine 3  
Lucrări științifice elaborate și publicate: 135, din care:  
Lucrări în jurnale indexate ISI: 13  
Lucrări indexate ISI: 12  
Granturi și contracte de cercetare științifică: 23, din care 2 director de contract cu MECT și 1 manager științific la un contract cu terți  
Brevete de invenții: 5  
Protecție model industrial: 1

Brașov  
Decembrie 2014

Șef lucr. dr. ing. Radu Gabriel Săulescu

Anexa  
S.I. dr.ing. Radu SĂULESCU

Lista celro 10 lucrări relevante

1. **Saulescu, R.**, Jaliu, C, Munteanu, O., Climescu, O. *Planetary Gear for Counter-rotating Wind Turbines*. Applied Mechanics and Materials Vol. 658 (2014) pp 135-140, doi:10.4028/www.scientific.net/AMM.658.135
2. **Săulescu, R.**, Jaliu, C., Climescu, O., Diaconescu, D. *On the use of 2 DOF planetary gears as “speed increaser” in small hydros and wind turbines*. Proceedings of the ASME 2011 International Design Engineering Technical Conferences & Computers and Information in Engineering Conference, IDETC/CIE 2011, 28 - 31.08, 2011, Washington, DC, USA, CD Proceedings, ISBN: 987-0-7918-3856-3
3. **Saulescu, R.**, Neagoe, M. Jaliu, C., and Munteanu, O, *On a New Chain Planetary Transmission for Renewable Energy. Systems. Part I: Product Design. Part II: Virtual prototyping and Experimental Testing*. Applied Mechanics and Materials – Acceptate, in curs de publicare
4. Neagoe, M., **Saulescu, R.**, Munteanu, O., Burduhos, B. *Low Speed Linear Actuator for Accurate Orientation of Concentrated Solar Convertors*. Applied Mechanics and Materials Vol. 658 (2014) pp 99-104, doi:10.4028/www.scientific.net/AMM.658.99.
5. **Săulescu R.**, Munteanu O., Neagoe M., Crețescu N., *On the eccentricity effects in solar tracking triangular linkage with linear actuator*, The 11th IFToMM International Symposium on Science of Mechanisms and Machines- SYROM 2013 Mechanisms and Machine Science 18, november 11-12, pp. 209-216, 2013, ISBN: 978-3-319-01844-7, ISSN: 2211-0984, DOI 10.1007/978-3-319-01845-4\_21.
6. **Săulescu, R.**, Jaliu, C., Diaconescu, D., Climescu, O., *On a New Planetary Speed Increaser Drive Used in Small Hydros. Dynamic Model*. Proceedings of EUCOMES 2010. New Trends in Mechanism Science. Analysis and Design. Mechanism and Machine Science, Vol. 5, Cluj Napoca, România, pp. 209-216, Septembrie 2010, Ed. Springer, ISBN 987-90-481-9688-3.
7. Neagoe, M., Diaconescu, D.V., Jaliu, C., Pascale, L., **Săulescu, R.**, Siscă, S *On a New Cycloidal Planetary Gear used to Fit Mechatronic Systems of RES*. OPTIM 2008. Proceedings of the 11<sup>th</sup> International Conference on Optimiztion pf Electrical and Electronic Equipment. Vol. II-B. Renewable Energy Conversion and Control. May 22-23.08, Braşov, pp. 439-449, IEEE Catalog Number 08EX1996. ISBN 987-973-131-028-2. (citată în jurnalele: *Mechanism and Machine Theory, Sensors and Transducers*)
8. Diaconescu, D., Neagoe, M., Jaliu, C., **Săulescu, R.** *Products’ Conceptual Design*. Editura Universităţii Transilvania, 2010, ISBN 978-973-598-230-0.
9. Mecanism de orientare A/00677/29.07.10, brevet nr. RO126335
10. Transmisie planetară cu lanţ A/00084/01.02.10, brevet nr. RO 128109

**Titlul tezei de doctorat**

*Optimizarea dinamică a transmisiilor policardanice cu arbori în configuraţie spaţială*

### **Brevete de invenție, protecție model industrial**

1. Transmisie cicloidală cu role A/00323 din 03.06.2008 – rezumat publicat in BOPI nr. 1 din 29.01.2010, brevet nr. RO125177-B1.
2. Mecanism de orientare A/00622 din 18.08.2008. – rezumat publicat in BOPI nr. 2 din 26.02.2010, brevet nr. RO125253-A2
3. Mecanism de orientare A/00677/29.07.2010 rezumat publicat in BOPI nr. 5 din 30.05.2011, brevet nr. RO126335-A0
4. Mecanism de orientare (biaxial) A/00676/29.07.2010 rezumat publicat in BOPI nr. 5 din 30.05.2011, brevet nr. RO126334-A0
5. Transmisie planetara cu satelit dublu și lanțuri A/00326/08.04.2011 rezumat publicat in BOPI nr. 9 din 2011 brevet nr. RO126694-A0
6. Colector de energie solara – protecție model nr. 018891/26.11.2009

### *Propuneri de brevete*

1. Mecanism de orientare articulată A/01001/22.10.2010 rezumat publicat in BOPI nr. 3 din 2011, brevet nr. RO 126149 A0
2. Mecanism de orientare articulată cu roți dințate A/01074/11.11.2010 rezumat publicat in BOPI nr. 4 din 2011, brevet nr. RO 126230 A0
3. Sistem și metodă de orientare a unui colector solar termic plan în funcție de necesarul termic A/00109/20.02.2012 – rezumat publicat in BOPI nr. 7 din 30.07.2012, brevet nr. RO 127678 A0
4. Mecanism de orientare cu bare articulate și angrenaj planetar A/00391/01.06.2012 – rezumat publicat in BOPI nr. 10 din 30.10.2012, brevet nr. RO 127913 A0
5. Mecanism de orientare monoaxială cu două actuatore liniare A/00467/22.06.2012 – rezumat publicat in BOPI nr. 11 din 29.11.2012, brevet nr. RO 127979 A0
6. Transmisie planetara cu lant A/00084/10.02.2010 – rezumat publicat in BOPI nr. 1 din 30.01.2013, brevet nr. RO128109-A2
7. Actuator de joasă viteză cu reductor articulată intermitent A/00664/19.09.12 2010 – rezumat publicat in BOPI nr. 1 din 30.01.2013, brevet nr. RO128120 A0
8. Mecanism de orientare cu doua actuatore liniare in paralel pentru siruri fotovoltaice A/00710/08.10.2012 – rezumat publicat in BOPI nr. 4 din 2013, brevet nr. RO128315 A0

### **Lista monografii**

1. Jaliu, C., Diaconescu, D., Neagoe, M., Ciobanu, D., **Săulescu, R.** Applications of mechanism analysis and synthesis. Editura Universității Transilvania, 2003, ISBN 973-635-155-6.
2. Dudiță, Fl., Diaconescu, D., Böhm, C, Neagoe, M, **Săulescu, R.** Transmisii cardanice. Ed. Transilvania Expres, Brașov, 2003, ISBN: 973–8196–20–5.
3. Diaconescu, D.V, Dudiță, FL., Neagoe, M, **Săulescu, R.** Transmisii mecanice. Cuplaje mobile cu bile de tip Weiss și Rzeppa. Ed. Universității Brașov, 2004, ISBN: 973–635–295–1.
4. Bârsan, A., **Săulescu, R.** Angrenaje cilindrice pentru reductoare de turație. Ed. Universității Transilvania Brașov, 2005, ISBN: 973-635-361-3.
5. Jaliu, C., Diaconescu, D., Neagoe, M., **Săulescu, R.** Gear mechanisms. Structure. Kinematics. Dynamics. Editura Universității Transilvania, 2006, ISBN 973-635-623-X.
6. Diaconescu, D., Neagoe, M., Jaliu, C., **Săulescu, R.** Products' Conceptual Design. Editura Universității Transilvania, 2010, ISBN 978-973-598-230-0.
7. Neagoe, M., Diaconescu, D., Jaliu, C., Munteanu, O., **Săulescu, R.**, Crețescu, N. Linkage accuracy modelling. Editura Universității Transilvania, 2010, ISBN 978-973-635-921-7.
8. Jaliu, C., Diaconescu, D., Neagoe, M., Munteanu, O., **Săulescu, R.**, Pascale, L., Gall, R. Planetary gearset modelling. Editura Universității Transilvania, 2010, ISBN 978-973-598-481-6.

### Capitole de carte in edituri straine

1. Neagoe, M., Diaconescu, D., Jaliu, C., **Săulescu, R.** DAAAM International Scientific book: A Conceptual Application Based on new Generalized Algorithm. Publisher: DAAAM International Vienna 2009, cap. 63, pp. 653-664, ISSN 1726-9687, ISBN 978-3-901509-69-8.
2. Neagoe, M., Diaconescu, D., Jaliu, C., Stan, S.D., Crețescu, N., **Săulescu, R.** Computational intelligence and modern heuristics: On the Accuracy of a Stewart Platform: Modelling and Experimental validation. Published: In-Tech, Olajnica, Croatia, 2010, cap. 6, pp. 75-98, ISBN 978-953-7619-28-2.
3. Diaconescu, D., Jaliu, C., Neagoe, M., **Săulescu, R.** DAAAM International Scientific book: Product conceptual design modeling: A new generalized algorithm. Publisher: DAAAM International Vienna 2010, cap. 53, pp. 607-616, ISSN 1726-9687, ISBN 978-3-901509-74-2.

### Jurnale Indexate ISI

1. **Saulescu, R.**, Neagoe, M. Jaliu, C., and Munteanu, O, On a New Chain Planetary Transmission for Renewable Energy. Systems. Part I: Product Design. **Applied Mechanics and Materials** – Acceptata, in curs de publicare
2. **Saulescu, R.**, Jaliu, C., Neagoe, M. and Climescu O., On a New Chain Planetary Transmission for Renewable Energy. Systems. Part II: Virtual prototyping and Experimental Testing. **Applied Mechanics and Materials** – Acceptata, in curs de publicare
3. **Saulescu, R.**, Jaliu, C, Munteanu, O., Climescu, O. *Planetary Gear for Counter-rotating Wind Turbines*. **Applied Mechanics and Materials** Vol. 658 (2014) pp 135-140, doi:10.4028/www.scientific.net/AMM.658.135.
4. Neagoe, M., **Saulescu, R.**, Munteanu, O., Burduhos, B. *Low Speed Linear Actuator for Accurate Orientation of Concentrated Solar Convertors*. **Applied Mechanics and Materials** Vol. 658 (2014) pp 99-104, doi:10.4028/www.scientific.net/AMM.658.99.
5. Ciobanu, D., Jaliu, C, **Saulescu, R.** *Chain Tracking System for Solar Thermal Collector*. **Applied Mechanics and Materials** Vol. 658 (2014) pp 35-40 doi: 10.4028/www.scientific.net/AMM.658.35.
6. Ciobanu, D., **Saulescu, R.**, Jaliu, C, Climescu. *Wind Potential Analysis in Brasov Built Environment..* **Applied Mechanics and Materials** Vol. 659 (2014) pp 337-342, doi:10.4028/www.scientific.net/AMM.659.337.
7. Neagoe M., Crețescu N., **Săulescu R.**, *Dynamic modelling of a 3DOF medical parallel robot with one decoupled motion*. **Advanced Materials Research** Vols. 837 (2014) pp 594-599, Trans Tech Publications, Switzerland, doi: 10.4028/www.scientific.net/AMR.837.594.
8. Crețescu N., Neagoe M., **Săulescu R.**, *Kinematic modelling and VR simulation of a 3DOF medical parallel robot with one decoupled motion*. **Advanced Materials Research** Vols. 837 (2014) pp 567-572, Trans Tech Publications, Switzerland, doi: 10.4028/www.scientific.net/AMR.837.567.
9. Todi-Eftimie, A., Velicu, R., **Săulescu, R.**, Jaliu C. *Bearing friction vs. chain friction for chain drives*. **Advanced Materials Research** Vols. 753-755 (2013) pp 1110-1113, Trans Tech Publications, Switzerland, doi:10.4028/www.scientific.net/AMR.753-755.1110.
10. Neagoe, M, Vatasescu, M., **Saulescu, R.**, Creanga, N. *On New High Performance Systems with Linear Actuators for Diurnal Orientation of PV Platforms*. **Applied Mechanics and Materials**, Vol. 162 in 2012, ISSN: 1662-7482, pp. 214-223, ISSN/ISO: Periodical of Applied Mechanics and Materials with the title Mechanisms, Mechanical Transmissions and Robotics, ISBN-13: 978-3-03785-395-5
11. Climescu, O., **Săulescu, R.**, Jaliu, C. *Specific features of a counter-rotating transmission for renewable energy systems*. **Environmental Engineering and Management Journal**, August 2011 Vol.10, ISSN 1582 - 959, pp. 1105-1113.

12. Vișa, I., Diaconescu, D., **Săulescu, R.**, Vătășescu, M., Burduhos, B. *New Linkage with Linear Actuator for Tracking PV Systems with Large Angular Stroke*. **Chinese Journal Of Mechanical Engineering**, pp. 744-751, Volume 24, No: 5, 2011, ISSN: 1000-9345.
13. Jaliu, C., Diaconescu, D., Neagoe, M., **Săulescu, R.** *The eco-impact of small hydro implementation*. **Environmental Engineering and Management Journal**, July/August 2009 Vol.8 No. 4, ISSN 1582 - 959, pp. 837-841.

#### Articole Indexate ISI sau BDI

1. **Săulescu, R.**, Climescu O., Jaliu C. Assessment of Wind Energy Resources in Communities. Case Study: Brasov, Romania; Springer Proceedings in Energy. Sustainable Energy in the Built Environment-Steps Towards nZEB. Proceedings of the Conference for Sustainable Energy (CSE) 2014, november 6-8, pp. 151-166, 2014, ISBN: 978-3-319-09707-7, ISSN: 2352-2534, DOI 10.1007/978-3-319-09707-7\_12.
2. **Săulescu R.**, Munteanu O., Neagoe M., Crețescu N., *On the eccentricity effects in solar tracking triangular linkage with linear actuator*, The 11th IFToMM International Symposium on Science of Mechanisms and Machines- SYROM 2013 Mechanisms and Machine Science 18, november 11-12, pp. 209-216, 2013, ISBN: 978-3-319-01844-7, ISSN: 2211-0984, DOI 10.1007/978-3-319-01845-4\_21.
3. Jaliu C., Neagoe M., Săulescu R, Dobre E. B., *Low-speed actuator used in solar tracking systems*, The 11th IFToMM International Symposium on Science of Mechanisms and Machines- SYROM 2013. Mechanisms and Machine Science 18, november 11-12, pp. 381-389, 2013, ISBN: 978-3-319-01844-7, ISSN: 2211-0984, DOI 10.1007/978-3-319-01845-4\_38. Ed. Springer.
4. Todi-Eftimie, A., Velicu, R. , **Săulescu, R.**, Jaliu, C. *Geometric modeling of power joints from bush chain drives*, The 11th IFToMM International Symposium on Science of Mechanisms and Machines- SYROM 2013. Mechanisms and Machine Science 18, november 11-12, pp. 471-479, 2013, ISBN: 978-3-319-01844-7, ISSN: 2211-0984, DOI 10.1007/978-3-319-01845-4\_47.
5. Moldovan, M., Vișa, I., **Săulescu, R.**, Comșit, M. *Four Bar Linkages with Linear Actuators Used for Solar Trackers with Large Angular Diurnal Strokes*. The 11th IFToMM International Symposium on Science of Mechanisms and Machines- SYROM 2013. Mechanisms and Machine Science 18, november 11-12, pp. 411-423, 2013, ISBN: 978-3-319-01844-7, ISSN: 2211-0984, DOI 10.1007/978-3-319-01845-4\_41.
6. Climescu, O., Jaliu, C., **Săulescu, R.** *On the Efficiency of a Planetary Speed Increaser Usable in Small Hydros. Power Transmissions*. Mechanism and Machine Science, Vol. 13, 2013, pp 259-268 ([http://link.springer.com/chapter/10.1007/978-94-007-6558-0\\_18](http://link.springer.com/chapter/10.1007/978-94-007-6558-0_18))
7. **Săulescu, R.**, Jaliu, C., Climescu, O., Diaconescu, D. *On the use of 2 DOF planetary gears as "speed increaser" in small hydros and wind turbines*. Proceedings of the ASME 2011 International Design Engineering Technical Conferences & Computers and Information in Engineering Conference, IDETC/CIE 2011, 28 - 31.08, 2011, Washington, DC, USA, CD Proceedings, ISBN: 987-0-7918-3856-3
8. Diaconescu, D.V., Vișa, I., Vătășescu, M., **Săulescu, R.**, Burduhos, B. *The Optimization of a Bi-Axial Adjustable Mono-Actuator PV Tracking Spatial Linkage Azimuth Tracking Linkage Influence on the Efficiency of a Low CPV System*. Proceedings of EUCOMES 2010. New Trends in Mechanism Science. Analysis and Design. Mechanism and Machine Science, Vol. 5, Cluj Napoca, România, pp. 181-188, Septembrie 2010, Ed. Springer, ISBN 987-90-481-9688-3.

9. Jaliu, C., Diaconescu, D., **Săulescu, R.**, Climescu, O., On a New Planetary Speed Increaser Drive Used in Small Hydros. Part I. Conceptual Design. Proceedings of EUCOMES 2010. New Trends in Mechanism Science. Analysis and Design. Mechanism and Machine Science, Vol. 5, Cluj Napoca, România, pp. 199-207, Septembrie 2010, Ed. Springer, ISBN 987-90-481-9688-3.
10. **Săulescu, R.**, Jaliu, C., Diaconescu, D., Climescu, O., On a New Planetary Speed Increaser Drive Used in Small Hydros. Part II. Dynamic Model. Proceedings of EUCOMES 2010. New Trends in Mechanism Science. Analysis and Design. Mechanism and Machine Science, Vol. 5, Cluj Napoca, România, pp. 209-216, Septembrie 2010, Ed. Springer, ISBN 987-90-481-9688-3.
11. Jaliu, C., Visa, I., Diaconescu, D.V., **Săulescu, R.**, Neagoe, M., Climescu, O. Dynamic Model of a Small Hydropower Plant. OPTIM 2010. Proceedings of the 12<sup>th</sup> International Conference on Optimization of Electrical and Electronic Equipment. Renewable Energy Conversion and Control. May 20-21.10, Braşov, pp. 1216-1223. ISSN: 1842-0133, ISBN 978-973-131-080-0.
12. Jaliu, C., **Săulescu, R.**, Diaconescu, D., Neagoe, M., Climescu, O. *Dynamic Features of a Planetary Speed Increaser Usable in Small Hydropower Plants*. Proceedings of the 5th IASME / WSEAS International Conference on ENERGY & ENVIRONMENT (EE '10), pp. 241-246, February 23-25, 2010, University of Cambridge, UK. ISSN: 1790-5095, ISBN: 978-960-474-159-5.
13. Jaliu, C., **Săulescu, R.**, Diaconescu, D., Neagoe, M., Conceptual design of a chain speed increaser for small hydropower stations. Proceedings of the ASME 2009 International Design Engineering Technical Conferences & Computers and Information in Engineering Conference, IDETC/CIE 2009, 30.08 – 2.09, 2009, San Diego, California, USA, CD Proceedings, ISBN: 987-0-7918-3856-3.
14. C.Jaliu, D.V., Diaconescu, M., Neagoe, **R. Săulescu, M.** Vătăşescu. Conceptual Synthesis of Speed Increasers for Renewable Energy Systems. The 10<sup>th</sup> IFToMM International Symposium on Science of Mechanisms and Machines, Braşov, SYROM 2009, September 12-15, pp. 171-183, 2009, ISBN: 978-90-481-3521-9.
15. **Săulescu, R.**; Climescu, O.; Jaliu, C.; Diaconescu, D. Optimization of a Planetary Chain Speed Increaser for Small Hydros. *Annals of DAAAM & Proceedings*. 2010, p465-466 (EBSCO)
16. Climescu, O.; Jaliu, C.; **Săulescu, R.**; Neagoe, M.; Badea, M. Laboratory Small Hydropower Plant Testing Stand. *Annals of DAAAM & Proceedings*. 2010, p1125-1126 (EBSCO)
17. C.Jaliu, D.V., Diaconescu, **R. Săulescu, M.** Neagoe. *Conversion Analysis of A Planetary Chain-Set Speed Reducer into A Speed Increaser to Be Used in RES*. Proceedings of the Third International Conference On Mechanical Engineering and Mechanics, Beijing, China, oct. 21-23, 2009, Vol. 1 and 2, pp 767-770, ISBN: 978-1-933100-33-3, Publisher: SCIENCE PRESS USA INC, ISI Document Delivery No.: BOE55
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#### Granturi și contracte de cercetare științifică

Programul/Proiectul	Funcția	Perioada
<i>PNII- PT-PCCA-2011-3.2-0512 nr. 28/2012 Sisteme solare Termice eficiente cu acceptanta ridicata for implementare în mediul urban (EST IN URBA)</i>	Membru	2012-2015
<i>Proiect CDS Dynamic Tribology, Contract cu Schaeffler, nr. 4029/26.03.2008, Act adit. 3/01.02.2012</i>	scientific manager responsible for chain testing	2012-2015
<i>PNII - nr. 72197/1.10.2008 Sisteme mecatronice complexe pentru aplicatii in medicina - SMART</i>	Membru	2011
<i>PNII- Parteneriate. Creșterea eficienței conversiei energiei solare în platforme fotovoltaice orientabile PLATSOL – PV.</i>	Membru	2007-2010
<i>PNII Contract nr. ID 140/2007-2010. Sisteme mecatronice inovative destinate microhidrocentralelor pentru exploatarea eficientă a potențialului hidrologic din zonele izolate.</i>	Membru	2007-2010
<i>Studii si simulari privind conceperea de noi variante de reductoare planetare cu raport cinematic si eficienta energetico-economica ridicate, cu utilizare in sisteme de energii regenerabile Contract nr. 4GR28052007/28.05.2007.</i>	Membru	2007-2008
<i>Eco-design – An innovative path towards sustainable development, 51388 – IC – I – 2004 – I – RO – ERASMUS - MODUC – 4/ 2007</i>	Membru	2007
<i>Modele, programe și simulări pentru optimizarea dinamica a transmisiilor mecanice cu flux energetic ramificat, prin eliminarea defectelor structurale. Contract nr. 27684/2005</i>	Membru	2005-2006
<i>Studiul și optimizarea dinamică a variatoarelor planetare de înaltă putere prin conversia sistemului mecanic în sistem mecatronic. Contract nr. 1330/2004</i>	Membru	2004-2005
<i>Cercetări teoretice și experimentale privind optimizarea modelelor teoretice ale roboților prin calibrare. Contract nr. 40533/2003</i>	Membru	2003-2005
<i>Cercetări teoretice si experimentale asupra cuplajelor tripode cu contacte exterioare. Contract nr. x/2004</i>	Membru	2004-2005
<i>Studiul, simularea și optimizarea cuplajelor cu bile de tip Weiss și Rzeppa, utilizate în transmisii mecanice. Contract nr. 40533/2003</i>	Membru	2003
<i>Studii si simulari dinamice in vederea optimizarii transmisiilor cardanice cu arbori elastici. Contract nr. 110/2003</i>	Director	2003
<i>Studii și simulări în vederea optimizării dinamice a transmisiilor cu articulații cardanice în configurație spațială. Contract nr. 143/2002</i>	Director	2002
<i>Studii și simulări teoretice și experimentale privind cuplajele mobile de tip podomorf utilizate în transmisii mecanice de putere. Contract nr. 33495/2002</i>	Membru	2002

<i>Modelarea și optimizarea dinamică a transmisiilor policanice în configurație spațială. Contract nr. 3993/2000</i>	Membru	2000
<i>Studii și programe privind sinteza cinematică a transmisiilor cardanice homocinematice în configurație spațială. Contract nr. 3993/2000</i>	Membru	2000
<i>Studii privind modelarea și simularea corelațiilor optime dintre parametrii caracteristici ai mecanismelor cu came. Contract nr. 33630/1999</i>	Membru	1999-2000

#### Articole publicate în conferințe neindexate

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**Observatii:** lucrări publicate în domeniul cursurilor din post

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