



**Curriculum Vitae  
Europass**

**Personal information**

First name(s) / Surname(s) **Laurențiu Mihai JITARU**  
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E-mail [laurentiu\\_j@yahoo.com](mailto:laurentiu_j@yahoo.com)  
Nationality Romanian  
Date of birth May, 21, 1970  
Gender Male

**Work experience**

Dates **01.03.2003 -onwards**  
Occupation or position held **Senior lecturer**  
Main activities and responsibilities Teaching and research activities ( lectures for the undergraduates and the master programs)  
Name and address of employer "Aurel Vlaicu" University from Arad, 7, Revolutiei Blv.  
Type of business or sector Higher education  
Dates **01.03.2000 – 28.02.2003**  
Occupation or position held **Assistant lecturer**  
Main activities and responsibilities Teaching and research activities ( lectures for undergraduates and for the master programs)  
Name and address of employer "Aurel Vlaicu" University from Arad, 7, Revolutiei Blv.  
Type of business or sector Higher education  
Dates **01.10.1997- 28.02.2003**  
Occupation or position held **Teaching Assistant**  
Main activities and responsibilities Teaching and research activities ( lectures and laboratory activities for undergraduates )  
Name and address of employer "Aurel Vlaicu" University from Arad, 7, Revolutiei Blv  
Type of business or sector Higher education

**Education and Training**

Dates	<b>1998-2006</b>
Title of qualification awarded	Ph.D in the Science of Materials , Ph.D diploma Series <i>E nr. 0002195</i>
Principal subjects /skills covered	Plastic cold deformation (Mechanical Engineering) ( PHD thesis entitled “ <b><i>Theoretical Studies and Experiments concerning the Expansion Technology for Thin Metallic Sheets</i></b> “)
Name and type of organization	“Politehnica “ University from Timisoara
Dates	<b>1997 - 2001</b>
Title of qualification awarded	Bachelor degree in economics
Principal subjects /skills covered	Economic Sciences, Specialty : Finances , Bachelor’s degree in economics <i>series U nr. 0062470.</i>
Name and type of organization	“Aurel Vlaicu” University from Arad
Dates	<b>1991- 1996</b>
Title of qualification awarded	Bachelor degree in engineering
Principal subjects /skills covered	Mechanical engineering, Specialty: Rolling Stock , diploma <i>series P nr. 0057441.</i>
Name and type of organization	Aurel Vlaicu University from Arad, Faculty of Engineering
Dates	<b>1997- 1998</b>
Title of qualification awarded	Specialized studies
Principal subjects /skills covered	Flexible Manufacturing Studies, diploma <i>series D nr. 0014987.</i>
Name and type of organization	Aurel Vlaicu University from Arad, Faculty of Engineering

**Personal skills and competences**

Mother tongue(s) **Romanian**

Other language(s) **English, Russian**

		Understanding		Speaking		Writing	
		Listening	Reading	Spoken interaction	Spoken production		
<b>Language</b>	E	A2	A2	A2	A2	A2	
<b>Language</b>	R	A2	A2	A2	A2	A2	

(\*) [\*Common European Framework of Reference for Languages\*](#)

Member in the intensive program Erasmus : *High Speed Railway Vehicles* carried out in three stages during the period 2000=2003 with partner universities : Universidad del Pais Vasco /EHU Bilbao, Spania, Universidad de Zaragoza, Spania, Universita degli Studi di Napoli, Federico II, Napoli, Politecnico di Torino, Politecnico di Milano.

Visiting professor Calculo de la energia disipada durante la frenada de parada par los vehiculos ferroviarias de alta velocidad mediante el freno de disco, dentro de la asiguratara „Problemas dinamicos en trenes de alta velocidad” del programa de doctorado „Nuevas Tecnologias en Automocion”, celebrado en Zaragoza el 6 de junio de 2008 – El Departamento de Ingenieria Mecanica de la Universidad de Zaragoza

Member in university admittance committees

Member in the committees preparing accreditation documentation for new and old specialties

Member in the timetable organizing committees

President : Committee for the accreditation of teachers in the secondary educational system (specialty : Transport) in the session from August , 2008

Member : Committee for the accreditation of teachers in the secondary educational system (specialty : Transport) in the session from, 2007

Secretary in the Committee for the dissertation examination of the specialty Ecological Modernization of Rolling Stock belonging to the Faculty of Engineering , 2008

Secretary in the Committee for the diploma graduation examination of the speciality Rolling Stock belonging to the Faculty of Engineering , 1999, 2000, 2001,2002,2003 2004

Secretary in the Committee for the diploma graduation examination of the speciality Automobiles belonging to the Faculty of Engineering , 2005 and 2007

Member in the Committee for the diploma graduation examination of the speciality Rolling Stock belonging to the Faculty of Engineering ,, 2009

Technical skills and competences	<p><b>17</b> years of teaching and research in the domain of mechanical engineering (railway vehicles and plastic deformation ) and in the economical field (finance and insurance) resulting in :</p> <ul style="list-style-type: none"> <li>- <b>3</b> books published in accredited publishing houses</li> <li>- <b>27</b> scientific articles published in scientific national and international journals as well as in volumes of national and international conferences</li> <li>- <b>1</b> conference held as visiting professor at the Zaragoza University , Spain</li> </ul>
Computer skills and competences	<p>Computer aided design software and text processing , such as :<i>excel, power point, mathcad, acad, nastran, cosmos, solidworks, catia, etc.</i></p>
Other skills and competences	<p>Expertise in the fields:</p> <ul style="list-style-type: none"> <li>- Engineering (Calculus and building of support structures of railway vehicles, rolling stock, engines and electrical trains, engines with thermal motors, haulage systems, braking systems, technical design, tribology, computer aided design )</li> <li>- Economics (Management, corporate economics))</li> </ul> <p>Publications :</p> <ul style="list-style-type: none"> <li>- University courses: <b>12</b></li> <li>- Published books: <b>3</b></li> <li>- Member in research projects (CNCSIS, AMTRANS, CEEEX): <b>8</b></li> <li>- Scientific articles: <b>27</b></li> <li>- Conferences held as visiting professor: <b>1</b></li> </ul> <p>Membership in professional organizations:</p> <ul style="list-style-type: none"> <li>- Member in the Association for Interdisciplinary Research of Western Romania</li> <li>- Member of the Romanian Robotics Association</li> </ul>
Driving licence	B
Additional information	<p>References can be obtained from the following :</p> <p>Prof.dr.ing. Liviu Sebastian Bocii , Aurel Vlaicu University from Arad (<a href="mailto:bociis@yahoo.com">bociis@yahoo.com</a>)</p> <p>Prof. dr.ing. Ioan Sporea , Politehnica University , Timisoara</p>
Annexes	<p>List of 6 representative articles ; List of completed and ongoing projects</p>

## Representative Articles:

1<sup>0</sup> Determination of the position angle of the expanding knife, according to the stress conditions of the deformed elements within the expanded metal sheet

Autori: **Laurențiu Jitaru**, Prof. dr. Gabriela Cristescu,  
Prof. dr. ing. Ion Sporea

- The knowledge based organization. Applied mechanics, military technical systems and technologies, Sibiu, 22-25 November 2007, ISSN 1843-6722, pag. 80 - 85

2<sup>0</sup> Mathematical modeling the force-displacement dependence for expanded metal threads

Autori: **Laurențiu Jitaru**, Prof. dr. Gabriela Cristescu

- Annals of the Oradea University, Fascicle of Management and Technological Engineering, Volume VI (XVI), 2007. ISSN 1583-0691, pag. 365 - 372.

3<sup>0</sup> Reduced Bezier surfaces in the behavior of the expanded metal threads

Autori: Prof. dr. Gabriela Cristescu, **Laurențiu Jitaru**

- Analele Universitatii de Vest, Timisoara, Seria Matematica - Informatica XLV, 1 (2007), pag. 171-182, ISSN 1841 - 3293

4<sup>0</sup> The Constructive Characteristics for the Knife Used in the Expansion Process of Iron Plates and the Shapes of the Holes in Expanded Iron Plates

Autori: **Laurențiu Jitaru**, Prof. dr. ing. Ion Sporea,  
Prof. dr. ing. Ilare Bordeasu

- 12<sup>th</sup> INTERNATIONAL CONFERENCE on TOOLS ICT-2007 September 6 - 8, 2007, Miskolc, Hungary, pag. 130 - 134

5<sup>0</sup> Assessing the ecologic-economic efficiency of an investment policy,

Autori: Prof. dr. Gabriela Cristescu, Prof. dr. ing. Liviu Sevastian Bocîi,  
**Laurențiu Jitaru**

- CREATIVE MATH. & INF. 17 (2008), Nr. 3, pag. 381 - 391  
Dedicated to Professor Iulian Caroiian on his 70<sup>th</sup> anniversary,  
Online version at: <http://creative-mathematics.ubm.ro/>  
Print Edition: ISSN 1584-286X, Online Edition: ISSN 1843-441X

## 6<sup>0</sup> Bi-Level generalized Quasi-Convex Optimization in Ecologic-Economic Efficiency

Autori: Prof. dr. Gabriela Cristescu, **Laurențiu Jitaru**,  
Prof. dr. ec. Silviu-Gabriel Szentesi

- 35<sup>TH</sup> International conference „APPLICATIONS OF MATHEMATICS IN ENGINEERING AND ECONOMICS”: AMEE - 2009, AIP (American Institute of Physics, Suite 1N01, 2 Huntington Quadrangle, Melville, NY 11747-4502 USA) Conference Proceedings – November 17 2009, Volume 1184, I.S.B.N. 978-0-7354-0750-9, pag. 254 - 261

### Member in the following projects:

1<sup>0</sup> *Studiul, cercetarea și elaborarea calculelor de rezistență cu elemente finite, după un program Algor, la carcasa vagonului de călători AVA 200*, contract de cercetare nr. 58/28.11.2003, beneficiar SC ASTRA Vagoane Călători SA Arad.

2<sup>0</sup> *Troleibuz pentru transportul urban de călători “SOLO cu chopper” cu recuperare de energie la frânare și cu asigurarea condițiilor de transport de persoane cu handicap major conform directivelor CE 85/2001, pentru asigurarea compatibilității cu sistemul european*, Proiect AMTRANS (2004-2006), parteneri: ICPE București, ICPE SAERP București, SC ASTRA BUS Arad.

3<sup>0</sup> *Cercetări privind dezvoltarea unor sisteme performante de monitorizare și control al elementelor de rulare pentru îmbunătățirea mentenanței și siguranței transportului feroviar (MASPROF)*, proiect CEEEX – INFOSOC (PC-D03-PT20-1080), parteneri: INCDMF București, SC ASTRA Vagoane Călători SA Arad, SC AEROFINA SA București, 2005-2008.

4<sup>0</sup> *Cercetări privind metode de diagnoză ale vagoanelor de călători în vederea creșterii siguranței și securității în transportul pe calea ferată (DIAGNOZĂ)*, proiect CEEEX – AMTRANS (PC-D07-PT20-1077), parteneri: INCDMF București, SC ASTRA Vagoane Călători SA Arad, SC AEROFINA SA București, 2005-2008.

5<sup>0</sup> *Cercetări privind implementarea unui sistem ecologic etanș, vacuumatic de toalete pentru vagoanele de călători în transportul pe calea ferată (ECO-TOALETA)*, proiect CEEEX – AMTRANS (PC-D07-PT20-1078), parteneri: INCDMF București, SC ASTRA Vagoane Călători SA Arad, SC AEROFINA SA București, 2005-2008.

6<sup>0</sup> *Impactul social economic și ecologic al racordării României la rețeaua paneuropeană de transport (IMPACT)*, proiect CEEEX (modulul II), 2006-2007, parteneri: ICPE București, SC ASTRA BUS Arad.

*7<sup>0</sup> Troleibuz acționat cu invertor trifazat și motor de curent alternativ, cu podea coborâtă, conform normelor Uniunii Europene (TAITMA-NE), proiect CEEEX (modulul I – Dezvoltare produs-sistem), 2007-2010, parteneri: Societatea de Acționări Echipamente și Redresoare de Putere București; Institutul de Cercetări și Proiectări în Electrotehnică București; Fundația Academia Comercială Satu Mare; Comitetul Electrotehnic Român; SC Astrabus SRL Arad.*

*8<sup>0</sup> Sistem avansat de tracțiune electrică cu invertoare de frecvență și motoare de curent alternativ pentru troleibuze (INOVARE), proiect CEEEX (modulul I – Dezvoltare produs-sistem), 2007-2010, parteneri: SC ASTRA BUS Arad, ICPE București, SAERP București.*

Ș. L. dr. ing. ec. **Laurențiu JITARU**