



Curriculum vitae Europass



Informații personale

Nume / Prenume	Cotoros Laura Diana
Adresă(e)	Str.Zizinului nr.30, Bl.33,Sc.C, ap.12, 500414, Brasov, Romania
Telefon(oane)	0268323647
Fax(uri)	
E-mail(uri)	dcotoros@unitbv.ro , dcotoros@yahoo.com
Naționalitate(-ități)	Română
Data nașterii	1.11.1962
Sex	feminin

Domeniul de conducere de doctorat

Inginerie mecanică

Experiența profesională

Perioada	2011-prezent
Funcția sau postul ocupat	Conferențiar universitar
Activități și responsabilități principale	<ul style="list-style-type: none">- Predare cursuri: Mecanica (MT, IMED, OPTO, DI, ISER, IPMI, IVD – anul I), Mecanica în limba engleză (ID, IDPE – anul I), Ergonomia aparatelor medicale (OPTO, IMED – anul III), Baze de date și prelucrări statistice (MT, IMED, OPTO – anul IV)- Predare seminarii și laboratoare: Mecanica, Mecanica în limba engleză, Ergonomia aparatelor medicale, Baze de date și prelucrări statistice, Prelucrarea digitală a imaginilor și vedere artificială, Optometrie și diagnostic clinic (Master-SMIM – anul II)- Coordonare proiecte de diplomă și disertație- Activități de cercetare în biomecanică, biomateriale, modelarea și simularea mișcărilor umane- Diseminarea activităților de cercetare prin prezentarea și publicarea lucrărilor științifice
Numele și adresa angajatorului	Universitatea Transilvania Brasov, B-dul. Eroilor nr.29, 500414, Brasov, Romania Facultatea Design de Produs și Mediu, Departamentul Design de Produs, Mecatronică și Mediu
Tipul activității sau sectorul de activitate	Educație și cercetare
Perioada	2001 - 2011
Funcția sau postul ocupat	Conferențiar universitar
Activități și responsabilități principale	<ul style="list-style-type: none">- Predare cursuri: Mecanica, Mecanica în limba engleza, Dinamica sistemelor de rigide, Programare în C++ (Master Mecanica Computațională)- Predare seminarii: Mecanica, Mecanica în limba engleza, Dinamica sistemelor de rigide, Programare în C++ (Master Mecanica Computațională)- Activități de cercetare în mecanică teoretică, girodinamică, vibrații mecanice, materiale compozite- Diseminarea activităților de cercetare prin prezentarea și publicarea lucrărilor științifice- Management proiecte de cercetare
Numele și adresa angajatorului	Universitatea Transilvania Brasov, B-dul. Eroilor nr.29, 500414, Brasov, Romania Facultatea de Inginerie Mecanică, Catedra de Mecanică
Tipul activității sau sectorul de activitate	Educație și cercetare

Perioada	1997 - 2001
Funcția sau postul ocupat	Șef lucrări
Activități și responsabilități principale	<ul style="list-style-type: none"> - Predare cursuri: Mecanica, Dinamica sistemelor de rigide - Predare seminarii: Mecanica, Mecanica în limba engleza, Dinamica sistemelor de rigide - Activități de cercetare în mecanică teoretică, girodinamică, vibrații mecanice - Diseminarea activităților de cercetare prin prezentarea și publicarea lucrărilor științifice
Numele și adresa angajatorului	Universitatea Transilvania Brasov, B-dul. Eroilor nr.29, 500414, Brasov, Romania Facultatea de Inginerie Mecanică, Catedra de Mecanică
Tipul activității sau sectorul de activitate	Educație și cercetare
Perioada	1991 - 1997
Funcția sau postul ocupat	Asistent universitar
Activități și responsabilități principale	<ul style="list-style-type: none"> - Predare seminarii: Mecanica - Activități de cercetare în mecanică teoretică, girodinamică, vibrații mecanice - Diseminarea activităților de cercetare prin prezentarea și publicarea lucrărilor științifice
Numele și adresa angajatorului	Universitatea Transilvania Brasov, B-dul. Eroilor nr.29, 500414, Brasov, Romania Facultatea de Inginerie Mecanică, Catedra de Mecanică
Tipul activității sau sectorul de activitate	Educație și cercetare
Perioada	1986 - 1991
Funcția sau postul ocupat	Inginer tehnolog
Activități și responsabilități principale	Proiectare și elaborare tehnologii montaj aparate de bord pentru elicoptere, asigurarea calității
Numele și adresa angajatorului	IAR – SA Ghimbav Brașov, str. Aeroportului nr.1
Tipul activității sau sectorul de activitate	Producție, asigurarea calității
Educație și formare	
Perioada	2016
Calificarea/diploma obținută	Abilitare
Disciplinele principale studiate / competențe profesionale dobândite	Titlul tezei de abilitare: „Technical-medical Approach of Biomechanical and Behavioral Factors in order to Improve Life Quality”
Numele și tipul instituției de învățământ / furnizorului de formare	Universitatea Transilvania Brasov
Perioada	2009
Calificarea / diploma obținută	Certificat
Disciplinele principale studiate / competențe profesionale dobândite	Dynamical Inverse Problems: Theory and Application
Numele și tipul instituției de învățământ / furnizorului de formare	International Centre of Mechanical Sciences, Udine, Italy
Nivelul în clasificarea națională sau internațională	
Perioada	2007
Calificarea / diploma obținută	Certificat
Disciplinele principale studiate / competențe profesionale dobândite	Simulation Techniques in Applied Dynamics
Numele și tipul instituției de învățământ / furnizorului de formare	International Centre of Mechanical Sciences, Udine, Italy
Nivelul în clasificarea națională sau internațională	
Perioada	1992-1998
Calificarea / diploma obținută	Diploma de doctor
Disciplinele principale studiate / competențe profesionale dobândite	Teza de doctorat: „Contribuții la teoria, calculul și construcția aparaturii de bord girodirecționale din punct de vedere al stabilității mișcării acesteia”

Numele și tipul instituției de învățământ / furnizorului de formare	Universitatea Transilvania Brasov																																																																
Nivelul în clasificarea națională sau internațională	ISCED 8																																																																
Perioada	1981-1986																																																																
Calificarea / diploma obținută	Diploma de inginer																																																																
Disciplinele principale studiate / competențe profesionale dobândite	Tehnologia construcțiilor de mașini																																																																
Numele și tipul instituției de învățământ / furnizorului de formare	Universitatea Transilvania Brasov																																																																
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Competențe și abilități sociale	Abilități de lucru în echipă (participare la numeroase proiecte de cercetare, activitate cu studentii-cercuri stiintifice, lucrari de diploma si disertatie) Capacitate de comunicare (activitati sociale in cadrul manifestarilor stiintifice, activitati sociale in cadrul echipelor de cercetare) Flexibilitate si capacitate de integrare în diferite medii culturale (participare la proiect international, conferinte internationale, workshop-uri) Abilitate de a transmite cunostinte datorita lucrului cu studentii, inclusiv in limba engleza																																																																
Competențe și aptitudini organizatorice	Experiență în managementul de proiect (director de proiect la 4 proiecte castigate la nivel national si responsabil de proiect la un proiect international) Capacitate de gestionare a detaliilor Experiență în organizarea manifestarilor stiintifice internationale (organizator a 2 workshop-uri internationale si membru in comitetul de organizare al mai multor conferinte internationale)																																																																
Competențe și aptitudini tehnice	Capacitate de utilizare a unor echipamente din cadrul institutului de cercetare al universitatii (microscop digital, placa Kistler, etc.) si laboratorului de ergonomie (kit de masuratori antropometrice)																																																																
Competențe și aptitudini de utilizare a calculatorului	Foarte buna cunoastere a pachetului Microsoft Office (Word, PowerPoint, Excel – inclusiv Data analysis, utilizat pentru prelucrari statistice) Cunoasterea programului de prelucrari statistice R Cunoasterea unor programe de modelare si simulare a miscarilor umane: Lifemode, Anybody Cunoasterea unor programe de prelucrare a imaginilor: Adobe Photoshop, Irfanview, Dicomworks, Able Image Analyzer si unele elemente de Scilab. Buna cunoastere a utilizarii resurselor de internet																																																																
Competențe și aptitudini artistice	Studiul pianului in adolescenta, abilitate medie Literatura, filme vechi																																																																

Alte competențe și aptitudini	Membru in asociații profesionale: AGIR, IAENG
Permis(e) de conducere	Categoria B
Informații suplimentare	<p>a) informații despre proiectele de cercetare-dezvoltare pe care le-a condus în calitate de director de proiect și granturile obținute, în cazul în care există astfel de proiecte sau granturi, indicându-se pentru fiecare sursa de finanțare și volumul finanțării;</p> <ul style="list-style-type: none"> - Responsabil de proiect din partea Universității Transilvania <ul style="list-style-type: none"> • ENVIRONMENTALLY USAGE OF POWER, perioada:2008-2009, finanțator: Austrian Science and Liaison Office, Nr.Contract:4-23-2008, 10000 Euro - Director de proiect: <ul style="list-style-type: none"> • Metodă computerizată de modelare biomecanică corelativă a implanturilor rigide perioada:2009-2011, finanțator: UEFISCSU, Nr.Contract:615/2009, 222844 lei • Identificarea prin modelare și analiza experimentală a proprietăților nanocompozitelor utilizate în construcția lagarelor antifricțiune. Aplicație la sisteme giroscopice directionale, perioada:2006-2008 finanțator: AMCSIT Nr.Contract:212/2006, 405000 lei • Promovarea și susținerea participării cercetării românești în programe transnaționale în domeniul reciclării ecologice a deșeurilor din materiale noi și composite, perioada: 2006-2008, finanțator:ANCS, Nr.Contract:220/2006, 85000 lei • Cercetări avansate în mecanica computațională și ingineria virtuală, perioada: 2006-2007, finanțator: CNMP, Nr.Contract:23/2006, 100000 lei <p>b) informații despre premii sau alte elemente de recunoaștere a contribuțiilor științifice ale candidatului.</p> <ul style="list-style-type: none"> - peste 10 citări ale lucrărilor științifice în articole la nivel internațional, unele cu factor de impact important - Recenzii ale unor lucrări pentru jurnale ca Engineering Review indexată în Cambridge Scientific Abstracts, International Journal of Computer Aided Engineering and Technology, World Scientific and Engineering Society - Premiul Universității Transilvania pentru numărul de lucrări indexate ISI în anul 2010 <p>c) o sinteză a principalelor realizări:</p> <ul style="list-style-type: none"> • teza de doctorat în domeniul Inginerie mecanică, „Contribuții la teoria, calculul și construcția aparatului de bord girodirectionale din punct de vedere al stabilității mișcării acesteia” 1998, Universitatea Transilvania Brașov, Conducător științific: Prof.dr.ing. Gheorghe Deliu; • teza de abilitare în domeniul Inginerie Mecanică, „Technical-medical Approach of Biomechanical and Behavioral Factors in order to Improve Life Quality” • nr cărți publicate în edituri internaționale (0) • nr capitole de cărți publicate în edituri internaționale (9) • nr cărți publicate în edituri naționale (11) • nr capitole de cărți publicate în edituri naționale (0) • nr lucrări indexate ISI (60 conform ISI Web of Science dintre care 8 în jurnale) • nr lucrări indexate BDI (43) • nr lucrări în volumele conferințelor (98) • nr brevete (1)

LISTA DE LUCRĂRI

LUCRĂRI RELEVANTE

Cotoros D., Baritz M., *Some Considerations Concerning the Modelling of the Human Body Locomotor Rehabilitation System*, 23rd European Conference on Modelling and Simulation (ECMS), Rey Juan Carlos Univ, Madrid, Spania, iunie 09-12, 2009, pp. 359-364

Cotoros D., Baritz M., *Human Gait Analysis for Hip Implanted Persons*, 23rd European Conference on Modelling and Simulation (ECMS), Rey Juan Carlos Univ, Madrid, Spania, iunie 09-12, 2009, pp. 365-370

Cotoros, D., Baritz, M., Opran, C., et al., *Aspects Concerning Impact Tests on Composites for Rigid Implants*, World Congress on Engineering, Imperial Coll London, Londra, Anglia, iulie 01-03, 2009, pp.1658-1661

Cotoros D., Baritz M., Serban I., *Applied computer science to establish active correlation for improving the handling skills*, International Conference on Applied Computer Science, Elsevier, Malta, 2010, pp.504-507

Cotoros D., Baritz M., *Biomechanical Analyzes of Human Body Stability and Equilibrium*, Proceedings of the World Congress on Engineering 2010 WCE 2010, iunie 30 - iulie 2, 2010, Londra, Marea Britanie, pp.1145-1149

Cotoros, D., Stanciu, A., Baritz, M., *Experimental Research Concerning Mechanical Properties of Materials for Biomedical Use*, Proceedings of the World Congress on Engineering 2010 WCE 2010, iunie 30 - iulie 2, 2010, Londra, Marea Britanie, pp.1117-1120

Cotoros D., *Analysis of Skeletal Prosthesis Component Elements at Structural Level*, Metalurgia International, Vol: 15, Special Issue: 7, pp.116-120, 2010

Cotoros, D., Stanciu, A., Baritz, M., Cristea L., *Microscopic Analysis of Breakage in Materials for Hard Implants*, Lecture Notes in Engineering and Computer Science WCE 2011, iulie 2-6, 2011, Londra, Marea Britanie, ISBN 978-988-19251-5-2, ISSN 2078-0958, pp.1965-1968

Cotoros D., Baritz M., Stanciu A., *Conceptual Analysis of Correspondence between Plantar Pressure and Corrective Insoles*, World Academy of Science, Engineering and Technology 59, 2011, pp.155-158

Cotoros, D., Stanciu, A., Baritz, M., *Some Mechanical Characteristics of Materials for Dental Prosthetics*, Proceedings 26th European Conference on Modelling and Simulation ECMS, Koblenz, 2012, pp.212-215

TEZA DE DOCTORAT

Titlul tezei: „*Contribuții la teoria, calculul și construcția aparatului de bord girodirecționale din punct de vedere al stabilității mișcării acesteia*”, data susținerii publice: 14 decembrie 1998, Universitatea Transilvania Brașov, Conducător științific: Prof.dr.ing. Gheorghe Deliu, Diploma de doctor în domeniul Inginerie Mecanică din 1999.

TEZA DE ABILITARE

Titlul tezei: „*Technical-medical Approach of Biomechanical and Behavioral Factors in order to Improve Life Quality*”, domeniul Inginerie Mecanică, 2016

BREVETE

Instalație de încercare uscată a etanșeității radiatoarelor pentru autovehicule, nr: 94822/25.02.88, autori: Popescu Ion, Cozma Dorel, Martinescu, Schnabel (**Cotoros Diana**), 1988

CĂRȚI / CAPITOLE DE CĂRȚI

Constantin F., **Cotoros D.**, „Mecanica: teorie si aplicatii”, ISBN:973-97794-4-1, Brasov, Lux Libris, 1996.

Candea I., Bobosila M., **Cotoros D.**, Popescu R., Comanescu I., „Mecanica-Cinematica”, Editura Didactica si Pedagogica, ISBN: 973-30-5263-9, Bucuresti, 1998

Constantin F., **Cotoros D.**, et.al., Mecanica, culegere de probleme, editura Elida, ISBN:973-9205-00-4, Brasov, 2000

Candea I., **Cotoros D.**, et.al., Cinematica, culegere de probleme”, editura Lux Libris, ISBN:973-9458-00-9, Brasov, 2001

Cotoros D., „Mecanica”, editura Lux Libris, ISBN 973-9428-65-7, Brasov, 2001

Candea I., Constantin F., Pirna I., **Cotoros D.**, Comanescu I., „Mecanica – Statica – teorie și aplicații”, Editura Universității Transilvania Brașov ISBN:973 – 635 – 054 – 1, Brasov, 2002

Cotoros D., Scutaru L., „Introducere in dinamica sistemelor de rigide”, editura Lux Libris ISBN:973 – 9458 – 26 – 2, Brasov, 2004

Cotoros D., „Mechanics for students”, editura Lux Libris, Brașov, ISBN:973 – 9458 – 29 – 7, 2005

Cotoros D., „Trends and Research in Composite Materials Recycling”, Editura Universitatii Transilvania, Brasov, ISBN:978-973-598-261-4, 2007 http://www.worldcat.org/title/trends-and-research-in-composite-materials-recycling-trecry-2007-october-2007-brasov-proceedings-of-international-workshop/oclc/895260909&referer=brief_results

Radu C., Rosca I., **Cotoros D.**, „The Design of an Adapted Osteosynthesis Implant for Fibula’ Fracture”, **Capitolul** International Conference on Advancements of Medicine and Health Care through Technology, Vol. 26 din seria IFMBE Proceedings, Springer Verlag, 2009, pp 299-302 http://link.springer.com/chapter/10.1007/978-3-642-04292-8_66

Baritz, M., **Cotoros, D.**, „Advanced Technologies in Biomechanics Investigations for the Analysis of Human Behaviour in Working Activities”, ISBN 978-953-307-141-1, Scyio, Rijeka, Croatia, 2010 <http://www.intechopen.com/books/advanced-knowledge-application-in-practice/advanced-technologies-in-biomechanics-investigations-for-the-analysis-of-human-behaviour-in-working->

Baritz, M., **Cotoros, D.**, „Education of Arms' Users in Dealing with Technological Activities”, **Capitolul** International Conference on Advancements of Medicine and Health Care through Technology, Vol. 36 din seria IFMBE Proceedings, Springer Verlag, 2011, pp 114-119 http://link.springer.com/chapter/10.1007/978-3-642-22586-4_24

Baritz, M., **Cotoros, D.**, „Digital Microscopy Used in Synthetic Structures Analysis of Dental Prosthesis”, **Capitolul** International Conference on Advancements of Medicine and Health Care through Technology, Vol. 36 din seria IFMBE Proceedings, Springer Verlag, 2011, pp.230-233 http://link.springer.com/chapter/10.1007/978-3-642-22586-4_49

Serban, I., Baritz, M., Rosca, I. C., **Cotoros D.**, „Statistical Analysis of Anthropometric and Physiologic Performance of the Hand”, **Capitolul** International Conference on Advancements of Medicine and Health Care through Technology, Vol. 36 din seria IFMBE Proceedings, Springer Verlag, 2011, pp.380-383 http://link.springer.com/chapter/10.1007/978-3-642-22586-4_80

Baritz, M., **Cotoros, D.**, „Human Gait Analysis for Hip Implanted Persons before and after Implant Procedure”, **Chapter** 5th European Conference of the International Federation for Medical and Biological Engineering, Vol. 37 din seria IFMBE Proceedings, Springer Verlag, 2012, pp 880-883 http://link.springer.com/chapter/10.1007%2F978-3-642-23508-5_229

Baritz, M., **Cotoros, D.**, „Anthropometrical Studies for Human Hand Rehabilitation Procedures”, **Chapter** 5th European Conference of the International Federation for Medical and Biological Engineering, Vol. 37 din seria IFMBE Proceedings, Springer Verlag, 2012, pp 884-887 http://link.springer.com/chapter/10.1007/978-3-642-23508-5_230

Cotoros, D., Baritz, M., „Combined-Correlated Methods Applied to the Analysis of Dental Prostheses Materials Quality”, New Technologies Trends Innovation and Research, INTECH Editura în acces deschis, 2012, pp.209-241. https://www.worldcat.org/title/combined-correlated-methods-applied-to-the-analysis-of-dental-prostheses-materials-quality/oclc/884219924&referer=brief_results

Repanovici A., **Cotoros D.**, Landoy A., “A Research Based Framework for Developing Information Literacy Projects”, **Capitolul** Worldwide Commonalities and Challenges in Information Literacy Research and Practice, Vol. 397 din seria Communications in Computer and Information Science, Springer Verlag, 2013, pp 345-351 http://link.springer.com/chapter/10.1007/978-3-319-03919-0_45

Baritz, M., **Cotoros, D.**, Barbu D., „Criteria Analysis for Optimal Choice of Efficient Energy Use in Residential Buildings”, **Capitolul** Sustainable Energy in the Built Environment - Steps Towards nZEB, din seria Springer Proceedings in Energy, Springer Verlag., 2014, pp 39-45, ISBN: 978-3-319-09706-0 http://link.springer.com/chapter/10.1007/978-3-319-09707-7_3

Baritz, M., **Cotoros, D.**, Barbu D., „Use of Thermo-Vision for Early Detection of Heat Losses, Inside and Outside Buildings with Mixed Heating”, **Capitolul Sustainable Energy in the Built Environment - Steps Towards nZEB**, din seria Springer Proceedings in Energy, Springer Verlag, pp 31-37, ISBN: 978-3-319-09706-0 http://link.springer.com/chapter/10.1007/978-3-319-09707-7_2

ARTICOLE ÎN REVISTE

ARTICOLE ÎN REVISTE INDEXATE ISI

Opran, C., Baritz, M., **Cotoros, D.**, *The effects of some liquids of general use upon the shape and structure of the monthly worn contact lenses used for visual comfort*, OPTOELECTRONICS AND ADVANCED MATERIALS-RAPID COMMUNICATIONS, Vol.4, Issue: 7, pp. 1052-1059, Jul. 2010 oam-rc.inoe.ro/download.php?idu=1161

Cotoros D., *Analysis of Skeletal Prosthesis Component Elements at Structural Level*, METALURGIA INTERNATIONAL, Vol. 15, Special Issue: 7, pp.116-120, 2010 <http://connection.ebscohost.com/c/articles/51706078/analysis-skeletal-prosthesis-component-elements-structural-level>

Stanciu, A., **Cotoros, D.**, Baritz, M., *Researches upon composite materials for prosthetic and orthotic devices*, OPTOELECTRONICS AND ADVANCED MATERIALS- RAPID COMMUNICATIONS Vol. 6 Issue: 1-2, pp. 335-338, Jan-Feb 2012 oam-rc.inoe.ro/download.php?idu=1831

Braun B., Baritz M., **Cotoros D.**, *Research on Correlation between any Plantar Diseases and Stability*, Applied Mechanics and Materials, Vol. 186, pp. 254-259, Jun. 2012 www.scientific.net/AMM.186.254

Baritz M., **Cotoros D. L.**, Braun B. C., *Eye Tracking Used to Evaluate the Human Behavior*, Applied Mechanics and Materials, Vol. 186, pp. 260-265, Jun. 2012 www.scientific.net/AMM.186.260

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Cotoros Laura Diana