

Curriculum vitae Europass



Personal information

First name(s) / Surname(s)	Ștefan Țălu
Address(es)	The Technical University of Cluj-Napoca, Faculty of Mechanical Engineering, B-dul Muncii Street, no. 103-105, Cluj-Napoca, 400641, Romania.
Telephone(s)	0264-401610, 0264-401780
Fax)	0264-415490
E-mail(uri)	Stefan.Talu@auto.utcluj.ro, stefan_ta@yahoo.com
Nationality	Romanian
Date of birth	31.07.1964
Gender	Male

Work experience

Dates	2002 - to present
Occupation or position held	Assoc. Prof. Ph.D. Eng.
Main activities and responsibilities	Teaching and research activity
Name and address of employer	The Technical University of Cluj-Napoca, Faculty of Mechanical Engineering, Department of Automotive Engineering and Transportation, Discipline of Descriptive Geometry and Engineering Graphics (DGEG)
Type of business or sector	Higher education
Dates	1998 – 2002
Occupation or position held	Senior lecturer
Main activities and responsibilities	Teaching and research activity
Name and address of employer	The Technical University of Cluj-Napoca, Faculty of Mechanical Engineering, Discipline of Descriptive Geometry and Engineering Graphics (DGEG)
Type of business or sector	Higher education
Dates	1993 - 1998
Occupation or position held	Assistant

Main activities and responsibilities	Teaching and research activity
Name and address of employer	The Technical University of Cluj-Napoca, Faculty of Mechanical Engineering, Discipline of Descriptive Geometry and Engineering Graphics (DGEG)
Type of business or sector	Higher education
Dates	1991 - 1993
Occupation or position held	Laboratory assistant
Main activities and responsibilities	Teaching and research activity
Name and address of employer	The Technical University of Cluj-Napoca, Faculty of Mechanical Engineering, Discipline of Descriptive Geometry and Engineering Graphics (DGEG)
Type of business or sector	Higher education
Dates	1988 - 1991
Occupation or position held	Engineer
Main activities and responsibilities	Research activity
Name and address of employer	Knitwear firm "Romanița" Caracal, Vornicu Street, no. 2, Caracal, Olt County.
Type of business or sector	Research
Education and training	
Dates	22.01.1998
Title of qualification awarded	Ph.D. thesis title: <i>Researches concerning the cold rolling process of external cylindrical threads.</i> The Technical University of Cluj - Napoca, Faculty of Machine Building. The degree: Ph.D. Field: Technique. Specialization: Technology of Machine Building.
Dates	1983 - 1988
Title of qualification awarded	- mechanical engineer, specialization: Technology of Machine Building (T.C.M.); - 1988, Session in June, University of Craiova, Faculty of Mechanical Engineering: - Promotion Chief (graduated with general mark 9.92); - Diploma as mechanical engineer, specialization in T.C.M., graduated with general mark 10 at the Diploma exam.
Name and type of organisation providing education and training	The University of Craiova, Faculty of Mechanics, specialization: Technology of Machine Building (T.C.M.).
Dates	1978 - 1982
Name and type of organisation providing education and training	The Industrial Secondary School, No. 1, Caracal, Olt County.
Dates	1974 – 1978
Name and type of organisation providing education and training	The Elementary School, no. 2, Caracal, Olt County.
Dates	1970 – 1974
Name and type of organisation providing education and training	The Elementary School, no. 4, Caracal, Olt County.

Personal skills and competences

Mother tongue(s) **Romanian**

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

Self-assessment <i>European level (*)</i>	Understanding		Speaking		Writing
	Listening	Reading	Spoken interaction	Spoken production	
English Language	Experienced user	Independent user	Independent user	Independent user	Independent user
French Language	Experienced user	Independent user	Independent user	Independent user	Independent user

Social skills and competences Team spirit; excellent ability to adapt to different projects and situations; communication and reliability.

Organisational skills and competences Team spirit; autonomy in work; exceptional capacity for analysis and synthesis, Dynamism; Creativity; Initiative. Negotiation skills: positive and active attitude.

Technical skills and competences Mechanical Engineering, Computer-aided engineering and Designing industrial processes. Putting into service prototypes.
Expert in the following fields: Descriptive Geometry and Technical Drawing; Computer Aided Design; AutoLISP programming language; The plastic deformation by cold rolling of threads; Technology of Machine Building; Fractal and Multifractal Geometry applied in Technique; Medical Imaging and Biostatistics; The universal history of architecture.

Computer skills and competences MS Windows & MS Office, AutoCAD, AutoLISP, Ulead PhotoImpact, CorelDraw, GraphPad InStat, Image J, QuarkXPress Passport, Multimedia & Accessories Software, Internet.

Driving licence Category B

Additional information	<p>▪ Specialization and internships in abroad: 23.02.1996 - 23.03.1996, S-JEP 08004-94 Tempus programme. "Escuela Tecnica Superior de Ingenieros Industriales", University of Sevilla, Spain, in Computer Aided Design.</p> <p>▪ Scientific activity: I published 16 books (6 books, single author; 3 books, main author; 7 books, co-author), in publishers recognized by CNCIS (with ISBN) and 1 guide for laboratory work (without ISBN) published at the Publisher House of The Technical University of Cluj-Napoca.</p> <p>Books:</p> <ol style="list-style-type: none"> Ștefan Țălu, Theodor Nițulescu, <i>The axonometric projection</i>, Cluj-Napoca, Risoprint Publishing House, 2002, 242 p., ISBN 973-656-198-4. Anca-Andreea Suci, Ștefan Țălu, <i>Descriptive geometry. Problems and applications</i>, Cluj-Napoca, Risoprint Publishing house, 2003, 120 p., ISBN 973-656-466-5. Ștefan Țălu, <i>AutoCAD 2005</i>, Cluj-Napoca, Risoprint Publishing house, 2005, 584 p., ISBN 973-751-061-5. Mihai Țălu, Ștefan Țălu, <i>The calculation of pressure declines in hydraulic pipes. Stabilized and unstabilized regimes of flow. Theory, applications and computational programmes</i>, Craiova, Universitaria
-------------------------------	---

Publishing house, 2006, 212 p., ISBN-10 973-742-370-4, ISBN-13 978-973-742-370-2.

5. Adrian Florescu-Gligore, **Ștefan Țălu**, Dan Noveanu, *Representation and visualization of geometric shapes in industrial drawing*, Cluj-Napoca, U. T. Pres Publishing house, 2006, 164 p., ISBN-10 973-662-230-4, ISBN-13 978-973-662-230-4.

6. **Ștefan Țălu**, Mihai Țălu, *AutoCAD 2006. Three-dimensional designing*, Cluj-Napoca, MEGA Publishing house, 2007, 330 p., ISBN-13 978-973-7867-81-0.

7. **Ștefan Țălu**, Cristina Racoccea, *Axonometric representations with applications in the technical domain*, Cluj-Napoca, MEGA Publishing House, 2007, 246 p., ISBN 978-973-7867-98-8.

8. **Ștefan Țălu**, *Architectural styles*, Cluj-Napoca, MEGA Publishing house, 2009, 420 p., ISBN 978-973-1868-72-1.

9. **Ștefan Țălu**, *Descriptive geometry*, Cluj-Napoca, Risoprint Publishing house, 2010, 476 p., ISBN 978-973-53-0373-0.

10. Mihai Țălu, **Ștefan Țălu**, Mircea Rădulescu, *Fluid Mechanics. Volumetric and hydrodynamic machines. Theory and simulation*, Craiova, Universitaria Publishing house, 2011, 144 p., ISBN 978-606-14-0035-5.

11. Cristina Racoccea, **Ștefan Țălu**, *The axonometric representation of technical geometric shapes*, Cluj-Napoca, Napoca Star Publishing house, 2011, 300 p., ISBN 978-973-647-781-2.

I published 265 scientific papers (140 papers as single author or first author), in journals, at symposia and scientific national and international conferences, in country or abroad. Among them: 20 papers in ISI quoted journals, with impact factor and relative influence score, 134 papers in international databases, 36 papers at national conference and 75 papers at international conferences.

Selection of ISI Journal articles:

1. Marco Lombardo, **Ștefan Țălu**, Mihai Țălu, Sebastiano Serrao, Pietro Ducoli, *Surface roughness of intraocular lenses with different dioptric powers assessed by atomic force microscopy*. In: Journal of Cataract & Refractive Surgery, Vol. 36, Issue 9, p. 1573 -1578, September 2010. DOI: 10.1016/j.jcrs.2010.06.031. ISSN: 0886-3350. Reference impact factor (domain) on 2010: IF = 2.942. Relative influence score (Scientific Journal) on 2010: IS = 1.53244.

URL: [http://www.jcrsjournal.org/article/S0886-3350\(10\)00893-X/abstract](http://www.jcrsjournal.org/article/S0886-3350(10)00893-X/abstract)

2. **Ștefan Țălu**, *Characterization of surface roughness of unworn hydrogel contact lenses at a nanometric scale using methods of modern metrology*. In: Polymer Engineering and Science, vol. 53, Issue 10, pages 2141-2150, 2013. DOI: 10.1002/pen.23481. Print ISSN: 0032-3888. Online ISSN: 1548-2634. Reference impact factor (domain) on 2013: IF = 1.441. Relative influence score (Scientific Journal) on 2013: IS = 1.34906.

URL: <http://onlinelibrary.wiley.com/doi/10.1002/pen.23481/full>

3. **Ștefan Țălu**, Sebastian Stach, Alia Méndez, Gabriel Trejo, Mihai Țălu, *Multifractal characterization of nanostructure surfaces of electrodeposited Ni-P coatings*. In: Journal of The Electrochemical Society, vol. 161, no. 1, D44 - D47, 2014. DOI: 10.1149/2.039401jes. Print ISSN: 0013-4651. Online ISSN: 1945-7111. Reference impact factor (domain) on 2013: IF = 2.859. Relative influence score (Scientific Journal) on 2013: IS = 1.967.

URL: <http://jes.ecsdl.org/content/161/1/D44.abstract>

4. **Ștefan Țălu**, Alaa J. Ghazai, Sebastian Stach, Abu Hassan, Zainuriah Hassan, Mihai Țălu, *Characterization of surface roughness of Pt Schottky contacts on quaternary n-Al_{0.08}In_{0.08}Ga_{0.84}N thin film assessed by atomic force microscopy and fractal analysis*. In: Journal of Materials Science: Materials in Electronics, vol. 25, no. 1, p. 466-477, 2014. DOI: 10.1007/s10854-013-1611-6. Print ISSN: 0957-4522. Online ISSN: 1573-482X. Reference impact factor (domain) on 2013: IF = 1.966. Relative influence score (Scientific Journal) on 2013: IS = 0.755.

URL: <http://link.springer.com/article/10.1007/s10854-013-1611-6>

5. **Ștefan Țălu**, Zoran Marković, Sebastian Stach, B. Todorović Marković, Mihai Țălu, *Multifractal characterization of single wall carbon nanotube thin films surface upon exposure to optical parametric oscillator laser irradiation*. In: Applied Surface Science, vol. 289, p. 97-106, 2014. DOI: 10.1016/j.apsusc.2013.10.114. Print ISSN: 0169-4332. Reference impact factor (domain) on 2013: IF = 2.538. Relative influence score (Scientific Journal) on 2013: IS = 1.967.

URL: <http://www.sciencedirect.com/science/article/pii/S0169433213019739>

6. **Ștefan Țălu**, Sebastian Stach, *Multifractal characterization of unworn hydrogel contact lens surfaces*. In: Polymer Engineering and Science, vol. 54, no. 5, p. 1066-1080, 2014. DOI: 10.1002/pen.23650. Print ISSN: 0032-3888. Online ISSN: 1548-2634. Reference impact factor (domain) on 2013: IF = 1.441.

Relative influence score (Scientific Journal) on 2013: IS = 1.34906.

URL: <http://onlinelibrary.wiley.com/>

<http://onlinelibrary.wiley.com/doi/10.1002/pen.23650/full>

7. Ștefan Țălu, Sebastian Stach, Aman Mahajan, Dinesh Pathak, Tomas Wagner, Anshul Kumar, Ratish Kumar Bedi, *Multifractal analysis of drop-casted copper (II) tetrasulfophthalocyanine film surfaces on the indium tin oxide substrates*. In: Surface and Interface Analysis, vol. 46, no. 6, p. 393-398, 2014. DOI: 10.1002/sia.5492. Print ISSN: 0142-2421. Online ISSN: 1096-9918. Reference impact factor (domain) on 2013: IF = 1.393. Relative influence score (Scientific Journal) on 2013: IS = 0.616.

URL: <http://onlinelibrary.wiley.com/>

<http://onlinelibrary.wiley.com/doi/10.1002/sia.5492/abstract>

8. Ștefan Țălu, Sebastian Stach, Joana Zaharieva, Maria Milanova, Dimitar Todorovsky, Stefano Giovanzana, *Surface roughness characterization of poly(methylmethacrylate) films with immobilized Eu(III) β -Diketonates by fractal analysis*. In: International Journal of Polymer Analysis and Characterization, vol. 19, no. 5, p. 404-421, 2014. DOI:10.1080/1023666X.2014.904149. Print ISSN: 1023-666X. Online ISSN: 1563-5341. Reference impact factor (domain) on 2013: IF = 1.487. Relative influence score (Scientific Journal) on 2013: IS = 0.504.

URL: <http://www.tandfonline.com/>

<http://www.tandfonline.com/doi/full/10.1080/1023666X.2014.904149>

9. Dinara Dallaeva, Ștefan Țălu, Sebastian Stach, Pavel Škarvada, Pavel Tománek, Lubomír Grmela, *AFM imaging and fractal analysis of surface roughness of AlN epilayers on sapphire substrates*. In: Applied Surface Science, vol. 312, p. 81-86, 2014. DOI: 10.1016/j.apsusc.2014.05.086. Print ISSN: 0169-4332. Reference impact factor (domain) on 2013: IF = 2.538. Relative influence score (Scientific Journal) on 2013: IS = 1.967.

URL: <http://www.sciencedirect.com/science/article/pii/S0169433214011039>

10. Ștefan Țălu, Sebastian Stach, Aman Mahajan, Dinesh Pathak, Tomas Wagner, Anshul Kumar, Ratish Kumar Bedi, Mihai Țălu, *Multifractal characterization of water soluble copper phthalocyanine based films surfaces*. In: Electronic Materials Letters, vol. 10, no. 4, p. 719-730, 2014. DOI: 10.1007/s13391-013-3270-4. Print ISSN: 1738-8090. Electronic ISSN: 2093-6788. Reference impact factor (domain) on 2013: IF = 3.977. Relative influence score (Scientific Journal) on 2013: IS = 0.668.

URL: <http://link.springer.com/article/10.1007/s13391-013-3270-4>

11. Ștefan Țălu, Sebastian Stach, Joana Zaharieva, Miroslava Getsova, Denitsa Elenkova, Maria Milanova, *Micromorphology characterization of SiO₂-based composite thin films with immobilized terbium(III) complex*. In: International Journal of Polymer Analysis and Characterization, vol. 19, nr. 7, p. 648-660, 2014. DOI: 10.1080/1023666X.2014.953749. Print ISSN: 1023-666X. Online ISSN: 1563-5341. Reference impact factor (domain) on 2013: IF = 1.487. Relative influence score (Scientific Journal) on 2013: IS = 0.504.

<http://www.tandfonline.com/doi/full/10.1080/1023666X.2014.953749>

12. Denitsa Elenkova, Joana Zaharieva, Miroslava Getsova, Ilia Manolov, Maria Milanova, Sebastian Stach, Ștefan Țălu, *Morphology and optical properties of SiO₂-Based composite thin films with immobilized Terbium(III) complex with a biscoumarin derivative*. In: International Journal of Polymer Analysis and Characterization, vol. 19, 2014. DOI: 10.1080/1023666X.2014.955400. Print ISSN: 1023-666X. Online ISSN: 1563-5341. Reference impact factor (domain) on 2013: IF = 1.487. Relative influence score (Scientific Journal) on 2013: IS = 0.504.

<http://www.tandfonline.com/doi/abs/10.1080/1023666X.2014.955400>

I was a member of the research team, during 2001 - 2014, at: 7 research projects, awarded by national competition and 2 international research projects. I was Project Manager at: two national research projects, awarded by national competition and at 10 national research projects with Romanian economic partners.

Projects / contracts awarded by international competition

1. International project funded by the European Commission and the Government of Romania, "*Instrument for Structural Policies for Pre-Accession*", ISPA project Cluj-Napoca, 2003.

Objective: "*Rehabilitation and extension of water supply and sewerage from Cluj area*".

Project duration: 19.05.2003 - 31.08.2007. Beneficiary: Somes Water Company S.A.

Contractor: SADE Branch Cluj-Napoca. Technical assistance and supervision: DHV Water BV of the DHV Group and Elite Company. Total budget: EUR 34,085,707.

Position in the project: member of the research team, Maintenance Management specialist.

2. International Research contract obtained through international competition, no. 3 of 24.03.2006, signed by the University of Craiova, Romania and the TETŐ-MIX KFT company, Hungary, Budapest. Contract theme "*Modelling and simulation of thermo-elastoplasto-hydrodynamic phenomena in microzones of contact-piece tool in the process of cold rolling thread*". Project duration: 24.03.2006 - 30.08.2006. Contract manager: Senior lecturer eng. Mihai Țălu, Ph.D, from the University of Craiova, Faculty of Mechanical Engineering. Total budget: EUR 700.

- Research sub-contract no. 30 of 06.04.2006, made between the University of Craiova, Romania and the Technical University of Cluj-Napoca, Romania. Sub-contract theme "*Development of a mathematical model to analyze three-dimensional dynamic contact forces between a rolling-piece and tool during deformation of the material layers*". Director of sub-contract: Assoc. Prof. Eng. Ștefan Țălu, Ph.D., from the Technical University of Cluj-Napoca, Faculty of Mechanical Engineering. Project duration: 24.03.2006 - 15.08.2006. Total budget: RON 700.

Grants obtained through national competitions

1. Competition based grant - Grant no. GR 7067/2001, signed by M.E.C. and U.T. Cluj Napoca. Theme B6: "Research on the design and execution of rolls with an attack cone for the cold rolling of threads". Phase 1: 2001: "*Research on optimal design and manufacturing technology of rolls with an attack cone for rolling with axial advance of long threaded rods*". Period: 10.10.2001 - 15.12.2001. Total budget: 35.3 million ROL. http://www.utcluj.ro/facultatea_de_mecanica/research.php. The position in the grant: Grant director.
2. Competition based grant - AT Grant no. 34970/2001, CNCSIS Code 210, signed by M.E.C. and U.T.Cluj Napoca. Theme 14: "Research on mechatronic systems with applications in rehabilitation engineering". Phase 1: 2001. "*Research on the analysis of mechatronic systems with applications in rehabilitation engineering. Criteria of optimization*". Grant Director: Assoc. Prof. Eng. Silviu Dan Mândru PhD. Period: 10.02.2001 – 15.12.2001. Total budget: RON 70,000,000. Position in grant: member of the research team, CAD specialist.
3. Competition based grant - Grant GR 7067/2001, signed by M.E.C and U.T.Cluj Napoca. Theme B2: "Research on the analysis and synthesis of the basic functions of mechatronic systems". Phase 1: 2001. "*Studies on structural, construction, and functional analysis of mechatronic systems*". Grant Director: Prof. Eng. Vistrian Mătieș, PhD. Period: 10.02.2001 – 15.12.2001. Total budget: ROL 100,000,000. Position in the grant: member of the research team, CAD specialist.
4. Competition based grant - AT Grant no. 34970/2001, CNCSIS Code 210, signed by M.E.C. and U.T.Cluj Napoca. Theme 14: "Research on mechatronic systems with applications in rehabilitation engineering". Phase 2: 2002. "Constructive and functional optimization of several mechatronic systems with applications in rehabilitation engineering". Grant Director: Assoc. Prof. Eng. Silviu Dan Mândru, PhD. Period: 10.01.2002 – 15.12.2002. Total budget: ROL 120,000,000. Position in the grant: member of the research team, CAD specialist.
5. Competition based grant - Grant A 26/2004, CNCSIS Code 1051, signed by M.E.C. and U.T.Cluj-Napoca. Theme: "Research on robotic systems for people with disabilities". Phase 1: 2004. "*Research on the analysis of robotic systems with applications in rehabilitation*". Grant Director: Assoc. Prof. Eng. Silviu Dan Mândru, PhD. Period: 10.01.2004 – 15.12.2004. Total budget: ROL 120,000,000. Position in the grant: research team member, CAD specialist.
6. Competition based grant - no. 34702/2005, CNCSIS Code 1051, signed by M.E.C. and U.T.Cluj-Napoca. Theme A 31: "Research on robotic systems for people with disabilities". Phase 2: 2005. "*Design, implementation, and testing of a robotic system to recover joint mobility and the ability to control movements in the human upper limb.*" Grant Director: Prof. Eng. Silviu Dan Mândru, PhD. Period: 10.01.2005 – 15.12.2005. Total budget: RON 8.000. Position in the grant: research team member, CAD specialist.
7. Competition based grant – no. 2783/23.05.2006, signed by M.E.C. and U.T.Cluj Napoca. Theme A 8: "*Research on the development of an interactive system for learning Braille alphabet and sign language*". Phase 1: 2006. Grant Director: Prof. Eng. Silviu Dan Mândru, PhD. Period: 23.05.2006 - 15.12.2006. Total Budget: RON 19,000. Position in the grant: research team member, CAD specialist.
8. Competition based grant - Exploratory Research Project - PN-II-ID-PCE-2007-1 Code: ID_1107/2007, Contract no. 440/1/10/2007, signed by M.E.C.T. (CNCSIS, UEFISCSU) and U.T.Cluj-Napoca. Subject: "Developing a database with representations of complex surfaces and objects using engineering graphics. Applications in art and technology". Grant Director: Assoc. Prof. Eng. Ștefan Țălu, PhD. Period: 3.10.2007 – 1.10.2009. Total budget: ROL 165.450. <http://utcluj.wgz.ro/>. Position in

the grant: Grant director.

9. Competition based grant - Exploratory Research Project - PN-II-ID-PCE-2007-1 Code: ID_459 /2007, signed by M.E.C.T. (CNCSIS, UEFISCSU) and UMF "Iuliu-Hațieganu" Cluj-Napoca. Subject: "Clinical and experimental research on vitreo-retinal surgery. Vitreo-retinal biomechanics with applications in the design of visual prosthesis". Grant Director: Senior lecturer MD. Simona-Delia Țălu, PhD, UMF "Iuliu-Hațieganu" Cluj-Napoca. Period: 3.10.2007 – 1.10.2010. Total budget: RON 270,000. Position in the grant: research team member, CAD specialist.

Other contracts

1. Research contract no. 19/08.02.2005, "*Vapor pressure steaming technology of beech, walnut and other semi-finished wooden materials for Type PA 20 SIC Steamer FIARD SRL*", signed by U.T.Cluj-Napoca and the FIARD SRL Complex Industrial Society, with headquarters in Luna de Sus, com Florești, at no. 11, Întreprinzătorilor Street, post code 3442, Cluj county, Romania. Period: 08.02.2005 - 10.03.2005. Total budget: RON 6,000,000. http://www.utcluj.ro/facultatea_de_mecanica/cercetare.php. Position in the contract: Contract manager.

2. Research contract no. 165/26.04.2012, "*Theoretical and experimental research on the development of special lighting systems*", signed by U.T.Cluj-Napoca and S.C. NIVEL CONSTRUCT S.R.L., located at apt. 2, no. 1, Gruia Street, post code 400171, Cluj-Napoca, Cluj county. Period: 26.04.2012 - 31.08.2012. Total budget: RON 5,280. Position in the contract: Contract manager.

3. Research contract no. 185/08.29.2012, "*Research with the finite element method on the analysis of water vapor diffusion in building elements of brick block type*", signed by U.T.Cluj-Napoca and S.C. TIPLEXIM S.R.L., located at Ap. 6, Sc.1, Bl. A13, Calea Severin str., post code 200215, Craiova, Dolj county. Period: 29.08.2012 - 31.11.2012. Total budget: RON 3,960. Position in the contract: Contract manager.

4. Research contract no. 217/14.12.2012, "*CAD analysis of several constructive variants of special lighting systems*", signed by U.T.Cluj-Napoca and S.C. NIVEL CONSTRUCT S.R.L., located at apt. 2, no. 1, Gruia Street, post code 400171, Cluj-Napoca, Cluj county. Period: 01.12.2012 - 31.12.2012. Total budget: RON 1,320. Position in the contract: Contract manager.

5. Research contract no. 6/21.01.2013, "*Methods of modelling and performance indicators for special lighting systems*", signed by U.T.Cluj-Napoca and S.C. NIVEL CONSTRUCT S.R.L., located at apt. 2, no. 1, Gruia Street, post code 400171, Cluj-Napoca, Cluj county. Period: 01.01.2013 - 31.01.2013. Total budget: RON 1,320. Position in the contract: Contract manager.

6. Research contract no. 16/22.02.2013, "*Research on constructive changes of special indoor luminaires for industrial halls*", signed by U.T.Cluj-Napoca and S.C. NIVEL CONSTRUCT S.R.L., located at apt. 2, no. 1, Gruia Street, post code 400171, Cluj-Napoca, Cluj county. Period: 01.02.2013 - 28.02.2013. Total budget: RON 1,400. Position in the contract: Contract manager.

7. Research contract no. 24/20.03.2013, "*Constructive and functional optimization of several components of special indoor luminaires for industrial halls*", signed by U.T.Cluj-Napoca and S.C. NIVEL CONSTRUCT S.R.L., located at apt. 2, no. 1, Gruia Street, post code 400171, Cluj-Napoca, Cluj county. Period: 01.03.2013 - 31.03.2013. Total budget: RON 1,400. Position in the contract: Contract manager.

8. Research contract no. 36/22.04.2013, "*Application of the finite element method in designing of indoor luminaires for industrial halls*", signed by U.T.Cluj-Napoca and S.C. NIVEL CONSTRUCT S.R.L., located at apt. 2, no. 1, Gruia Street, post code 400171, Cluj-Napoca, Cluj county. Period: 01.04.2013 - 31.07.2013. Total budget: RON 5,600. Position in the contract: Contract manager.

9. Research contract no. 57/09.07.2013, "*The utilisation of rapid prototyping manufacturing technology to modernize the special indoor luminaires for industrial halls*", signed by U.T.Cluj-Napoca and S.C. NIVEL CONSTRUCT S.R.L., located at apt. 2, no. 1, Gruia Street, post code 400171, Cluj-Napoca, Cluj county. Period: 01.09.2013 - 31.12.2013. Total budget: RON 5,600. Position in the contract: Contract manager.

10. Research contract no. 2/10.01.2014, "*Designing and modernization of special indoor luminaires for industrial halls. Types and variants. Special technical conditions. Installation, testing, maintenance and operation*", signed by U.T.Cluj-Napoca and S.C. NIVEL CONSTRUCT S.R.L., located at apt. 2, no. 1, Gruia Street, post code 400171, Cluj-Napoca, Cluj county. Period: 01.01.2014 - 31.12.2014. Total budget: RON 16,800. Position in the contract: Contract manager.

I was assessor of the proposed national contracts CNCSIS in 2007.

Award of the research results (CNCSIS) for papers published in ISI journals: 2010, 2011, 2013, 2014.

▪ **Other representative activities:**

Editorial board member of:

1) *American Journal of Biomedical Science and Engineering*, USA, <http://www.aascit.org/journal/editorial?journalId=893>.

2) *Aperito Journal of Ophthalmology*, USA, http://aperito.org/journal/journal_desc/31.

3) *Advances in Environmental Sciences - International Journal of the Bioflux Society* (Short title: *AES Bioflux*), Online ISSN 2065-7647, Printed ISSN 2066-7620. <http://www.aes.bioflux.com.ro/>

Scientific Reviewer of:

1) *Advances in Agriculture & Botany - International Journal of the Bioflux Society* (Short title: *AAB Bioflux*), ISSN 2067-6352 (online). <http://www.aab.bioflux.com.ro>

2) *Aquaculture, Aquarium, Conservation & Legislation - International Journal of the Bioflux Society* (Short title: *AACL Bioflux*), Online ISSN 1844-9166, Printed ISSN 1844-8143. <http://www.bioflux.com.ro/aacl/>

3) *Extreme Life, Biospeology & Astrobiology - International Journal of the Bioflux Society* (Short title: *ELBA Bioflux*), ISSN 2067-6360 (online). <http://www.elba.bioflux.com.ro/>

4) *Mathematics and Computers in Simulation*, ISSN: 0378-4754. <http://www.journals.elsevier.com/mathematics-and-computers-in-simulation/>.

▪ **Member of national and international scientific organizations:**

- The International Society of the Arts, Mathematics and Architecture (ISAMA);

- The International Association of Engineers (IAENG);

▪ **International biographical catalog:** The Encyclopedia of personalities from Romania, fifth edition, pp. 1418, 2010, ISBN 978-3-7290-0093-3. Editor: Who is Who, Verlag für Personnenzyklopädien AG, CH-6304 Zug, Alpenstrasse 16, Schweiz, <http://www.whoiswho-verlag.ch>, <http://www.whoiswho-verlag.ro>.

[http://www.whoiswho-](http://www.whoiswho-verlag.ch/versionnew/rumaenien/verlag/63.php?txt_Language=RO&real_str_PersID=RO0500177&uniqueID=a8941307-ea45-491e-9bb3-08939b88334d)

[verlag.ch/versionnew/rumaenien/verlag/63.php?txt_Language=RO&real_str_PersID=RO0500177&uniqueID=a8941307-ea45-491e-9bb3-08939b88334d](http://www.whoiswho-verlag.ch/versionnew/rumaenien/verlag/63.php?txt_Language=RO&real_str_PersID=RO0500177&uniqueID=a8941307-ea45-491e-9bb3-08939b88334d)

▪ **Family status:** 2 children.

Cluj-Napoca,
Date: December 25th, 2014

Signature
Assoc. Prof. Ph.D. Eng. Țălu Ștefan