

# Curriculum vitae Europass



**Personal information** 

# ONIGA Valeria-Ersilia

First name(s) / Surname(s)	ONIGA Valeria-Ersilia			
Address(es)	Splai Bahlui Street, Number 12, Block B11, Staircase A, Apartment 18, Iasi, Postal code 700163, Romania			
Telephone(s)	Mobile (+40-745) 634 472			
Fax(es)	-			
E-mail	valeria-ersilia.oniga@academic.tuiasi.ro			
Nationality	Romanian			
Date of birth	12 October1983			
Gender	Female			
Current position / Occupational field	Professor at TU lasi/ Photogrammetry and Remote Sensing			
Dates	February 2022→present			
Occupation or position held	Professor			
Main activities and responsibilities	<ul> <li>teaching lectures, projects and practical laboratory works,</li> <li>organization of practical activities for students,</li> <li>head of "Photogrammetry, Remote Sensing and Digital Cartography" laboratory,</li> <li>member in doctoral guidance boards and doctoral commissions,</li> <li>scientific coordinator of bachelor theses,</li> <li>scientific coordinator of master theses.</li> </ul>			
Name and address of employer	<b>"Gheorghe Asachi" Technical University of Iasi,</b> Dimitrie Mangeron Boulevard, no.67, 700050, Iasi, Romania, Phone/Fax +40232231041, <u>http://www.tuiasi.ro</u>			
Type of business or sector	Engineer, Civil Engineering, Geodetic Engineering			

# **Professional experience**

Dates	February 2018—February 2022
Occupation or position held	Associate Professor
Main activities and responsibilities	<ul> <li>teaching lectures, projects and practical laboratory works,</li> <li>organization of practical activities for students,</li> <li>head of "Photogrammetry, Remote Sensing and Digital Cartography" laboratory,</li> <li>member in doctoral guidance boards and doctoral commissions,</li> <li>scientific coordinator of bachelor theses,</li> <li>scientific coordinator of master theses.</li> </ul>
Name and address of employer	<b>"Gheorghe Asachi" Technical University of Iasi,</b> Dimitrie Mangeron Boulevard, no.67, 700050, Iasi, Romania, Phone/Fax +40232231041, <u>http://www.tuiasi.ro</u>
Type of business or sector	Engineer, Civil Engineering, Geodetic Engineering



Dates	October 2014 $\rightarrow$ February 2018
Occupation or position held	Lecturer
Main activities and responsibilities	<ul> <li>teaching lectures, projects and practical laboratory works,</li> <li>organization of practical activities for students,</li> <li>head of "Photogrammetry, Remote Sensing and Digital Cartography" laboratory,</li> <li>member in doctoral guidance boards,</li> <li>scientific coordinator of bachelor theses,</li> <li>scientific coordinator of master theses.</li> </ul>
Name and address of employer	<b>"Gheorghe Asachi" Technical University of Iasi,</b> Dimitrie Mangeron Boulevard, no.67, 700050, Iasi, Romania, Phone/Fax +40232231041, <u>http://www.tuiasi.ro</u>
Type of business or sector	Engineer, Civil Engineering, Geodetic Engineering
Dates	February 2009 $\rightarrow$ October 2014
Occupation or position held	Teaching Assistant
Main activities and responsibilities	<ul> <li>teaching projects and practical laboratory works,</li> <li>organization of practical activities for students,</li> <li>scientific coordinator of bachelor theses.</li> </ul>
Name and address of employer	<b>"Gheorghe Asachi" Technical University of Iasi,</b> Dimitrie Mangeron Boulevard, no.67, 700050, Iasi, Romania, Phone/Fax +40232231041, <u>http://www.tuiasi.ro</u>
Type of business or sector	Engineer, Civil Engineering, Geodetic Engineering
Dates	February 2007 $ ightarrow$ March 2011
Occupation or position held	Geodesy Dipl. Engineer
Main activities and responsibilities	Land survey and measurements processing, ground plans preparation.
Name and address of employer	S.C. "AQUAPROIECT" S.R.L, Arcu Street, no. 51, Iasi, Romania Phone/Fax:+40 232 410394, :+40 232 410394 E-mail: aqua@mail.dntis.ro
Type of business or sector	Hydrotechnical Construction Design
Dataa	May 2009 - May 2000
Dates	May 2008 $\rightarrow$ May 2009
Occupation or position held	Geodesy Dipl. Engineer
Main activities and responsibilities	Carrying out works related to geodesy and cadastre domains
Main activities and responsibilities Name and address of employer	
	Carrying out works related to geodesy and cadastre domains S.C. "S.C "TOPOCAD COMPANY" S.R.L", Petre Țuțea Street 2B, Bl. 907, Tr.1, et.4, ap.14, Iasi, Romania
Name and address of employer Type of business or sector	Carrying out works related to geodesy and cadastre domains <b>S.C. "S.C "TOPOCAD COMPANY" S.R.L"</b> , Petre Țuțea Street 2B, Bl. 907, Tr.1, et.4, ap.14, Iasi, Romania Phone/Fax:+40 232 225191
Name and address of employer Type of business or sector Education and training	Carrying out works related to geodesy and cadastre domains <b>S.C. "S.C "TOPOCAD COMPANY" S.R.L"</b> , Petre Ţuţea Street 2B, Bl. 907, Tr.1, et.4, ap.14, lasi, Romania Phone/Fax:+40 232 225191 Carrying out works related to Geodesy, Topography, Cadastre and Cartography domains
Name and address of employer Type of business or sector	Carrying out works related to geodesy and cadastre domains <b>S.C. "S.C "TOPOCAD COMPANY" S.R.L"</b> , Petre Țuțea Street 2B, Bl. 907, Tr.1, et.4, ap.14, Iasi, Romania Phone/Fax:+40 232 225191
Name and address of employer Type of business or sector Education and training Period	Carrying out works related to geodesy and cadastre domains S.C. "S.C "TOPOCAD COMPANY" S.R.L", Petre Țuțea Street 2B, Bl. 907, Tr.1, et.4, ap.14, Iasi, Romania Phone/Fax:+40 232 225191 Carrying out works related to Geodesy, Topography, Cadastre and Cartography domains 2021 Certificate of habilitation in GEODESIC ENGINEERING, by Order no. 4560 MD of the Ministry of
Name and address of employer Type of business or sector <b>Education and training</b> Period Title of qualification awarded	Carrying out works related to geodesy and cadastre domains S.C. "S.C "TOPOCAD COMPANY" S.R.L", Petre Tutea Street 2B, BI. 907, Tr.1, et.4, ap.14, lasi, Romania Phone/Fax:+40 232 225191 Carrying out works related to Geodesy, Topography, Cadastre and Cartography domains 2021 Certificate of habilitation in GEODESIC ENGINEERING, by Order no. 4560 MD of the Ministry of Education, Research and Innovation, from 3.08.2021 Habilitation thesis title: "Research regarding the creation and accuracy assessement of 3D models
Name and address of employer Type of business or sector <b>Education and training</b> Period Title of qualification awarded Disciplines approach/competence Name and type of organisation	Carrying out works related to geodesy and cadastre domains S.C. "S.C "TOPOCAD COMPANY" S.R.L", Petre Tutea Street 2B, BI. 907, Tr.1, et.4, ap.14, lasi, Romania Phone/Fax:+40 232 225191 Carrying out works related to Geodesy, Topography, Cadastre and Cartography domains 2021 Certificate of habilitation in GEODESIC ENGINEERING, by Order no. 4560 MD of the Ministry of Education, Research and Innovation, from 3.08.2021 Habilitation thesis title: "Research regarding the creation and accuracy assessement of 3D models obtained by using digital images, TLS and ALS point clouds" Technical University of Civil Engineering Bucharest, Bd. Lacul Tei, no. 124, 020396, Bucharest,
Name and address of employer Type of business or sector <b>Education and training</b> Period Title of qualification awarded Disciplines approach/competence Name and type of organisation	Carrying out works related to geodesy and cadastre domains S.C. "S.C "TOPOCAD COMPANY" S.R.L", Petre Tutea Street 2B, BI. 907, Tr.1, et.4, ap.14, lasi, Romania Phone/Fax:+40 232 225191 Carrying out works related to Geodesy, Topography, Cadastre and Cartography domains 2021 Certificate of habilitation in GEODESIC ENGINEERING, by Order no. 4560 MD of the Ministry of Education, Research and Innovation, from 3.08.2021 Habilitation thesis title: "Research regarding the creation and accuracy assessement of 3D models obtained by using digital images, TLS and ALS point clouds" Technical University of Civil Engineering Bucharest, Bd. Lacul Tei, no. 124, 020396, Bucharest,
Name and address of employer Type of business or sector <b>Education and training</b> Period Title of qualification awarded Disciplines approach/competence Name and type of organisation providing education and training	Carrying out works related to geodesy and cadastre domains S.C. "S.C "TOPOCAD COMPANY" S.R.L", Petre Tutea Street 2B, BI. 907, Tr.1, et.4, ap.14, lasi, Romania Phone/Fax:+40 232 225191 Carrying out works related to Geodesy, Topography, Cadastre and Cartography domains 2021 Certificate of habilitation in GEODESIC ENGINEERING, by Order no. 4560 MD of the Ministry of Education, Research and Innovation, from 3.08.2021 Habilitation thesis title: "Research regarding the creation and accuracy assessement of 3D models obtained by using digital images, TLS and ALS point clouds" Technical University of Civil Engineering Bucharest, Bd. Lacul Tei, no. 124, 020396, Bucharest, Phone/Fax 021 242 1208, http://www.utcb.ro/
Name and address of employer Type of business or sector Education and training Period Title of qualification awarded Disciplines approach/competence Name and type of organisation providing education and training Period	Carrying out works related to geodesy and cadastre domains S.C. "S.C "TOPOCAD COMPANY" S.R.L", Petre Tutea Street 2B, BI. 907, Tr.1, et.4, ap.14, lasi, Romania Phone/Fax:+40 232 225191 Carrying out works related to Geodesy, Topography, Cadastre and Cartography domains 2021 Certificate of habilitation in GEODESIC ENGINEERING, by Order no. 4560 MD of the Ministry of Education, Research and Innovation, from 3.08.2021 Habilitation thesis title: "Research regarding the creation and accuracy assessement of 3D models obtained by using digital images, TLS and ALS point clouds" Technical University of Civil Engineering Bucharest, Bd. Lacul Tei, no. 124, 020396, Bucharest, Phone/Fax 021 242 1208, <u>http://www.utcb.ro/</u> October 2009→ September 2013 PhD in Civil Engineering, by Order no.5581 MD of the Ministry of Education, Research and Innovation from 3.12.2013 Ph.D.Thesis title: <i>"Comparative study on methods for 3D modelling of urban area</i> " (295 pages with annexes), 2013; scientific coordinator: Prof. univ. Ph.D Eng. Dumitru Onose
Name and address of employer Type of business or sector <b>Education and training</b> Period Title of qualification awarded Disciplines approach/competence Name and type of organisation providing education and training Period Title of qualification awarded	Carrying out works related to geodesy and cadastre domains S.C. "S.C "TOPOCAD COMPANY" S.R.L", Petre Țuțea Street 2B, BI. 907, Tr.1, et.4, ap.14, Iasi, Romania Phone/Fax:+40 232 225191 Carrying out works related to Geodesy, Topography, Cadastre and Cartography domains 2021 Certificate of habilitation in GEODESIC ENGINEERING, by Order no. 4560 MD of the Ministry of Education, Research and Innovation, from 3.08.2021 Habilitation thesis title: "Research regarding the creation and accuracy assessement of 3D models obtained by using digital images, TLS and ALS point clouds" Technical University of Civil Engineering Bucharest, Bd. Lacul Tei, no. 124, 020396, Bucharest, Phone/Fax 021 242 1208, http://www.utcb.ro/ October 2009 -> September 2013 PhD in Civil Engineering, by Order no.5581 MD of the Ministry of Education, Research and Innovation from 3.12.2013 Ph.D.Thesis title: <i>"Comparative study on methods for 3D modelling of urban area</i> " (295 pages with



## Period October 2003→ June 2007

Title of qualification awarded Disciplines approach/competence

Name and type of organisation providing education and training

and school orientation; Classroom management. "Gheorghe Asachi" Technical University of Iasi, Romania, Bd. Dimitrie Mangeron, no.67, 700050,

Educational Psychology; Pedagogy, Methodology of teaching specialty; Teaching practicum; Counselling

Iasi, Romania, Phone/Fax +40232231041, <u>http://www.tuiasi.ro/</u>, Department for teacher's preparation

# Period October 2002→ July 2007

Title of qualification awarded Diplomat Eng., profile of Geodetics, Cadastre specialization

Graduation certificate of psycho-pedagogical module, level I and II

- Disciplines approach/competence Photogrammetry and Remote Sensing, Cartography, Topography, Geodesy, GIS, Mathematics, Programming, Statistics,
  - Design and development of projects for geodetic networks implementation by means of satellite and terrestrial technologies,
  - Achievement of topo-geodetic measurements for drawing up topographic plans for different objectives, preparation of cadastral documentation for real estate, new construction staking and their behavioural monitoring over time,
  - Development of single and integrated cartographic products in a Territorial Information System,
  - Using information technology in solving engineering problems, regarding both the numerical methods applications and the computer assisted graphics.

Name and type of organisation providing education and training

"Gheorghe Asachi" Technical University of Iasi, Romania, Bd. Dimitrie Mangeron, no.67, 700050, Iasi, Romania, Phone/Fax +40232231041, <u>http://www.tuiasi.ro/</u>,Faculty of Hydrotechnical Engineering, Geodesy and Environmental Engineering, Department of "Terrestrial Measurements and Cadastre"

Level in national or international ISCED 6 classification

# Personal skills and competences

Or

competences												
Mother tongue	Ron	nanian										
Other languages	Engli	sh, French										
Self-assessment		Unders	standing		Speaking				Writing			
European Level (*)		Listening	Reading		Spoken interaction		Spoken production		Written Expression		ı	
English language	C1	Proficient user	C2	Proficient user	C1	Proficient user	C1	Proficient user	B2	Independent user		
French language	B2	Independent user	B2	Independent user	B2	Independent user	B2	Independent user	B2	Independent user		
Social skills and competences	Soci	able, team spir	it, born	leader								
	Scie Mair 2019 <b>proc</b>	ntific coordinate n organizer of v 9), <b>"Georefere</b> cessing of terr	or of the workshe ncing restrial	e academic, eco e bachelor these ops: "Learn mo and processin laser scanner organizing com	es, mas ore ab g of la point o	ster theses and out photograi aser scanning clouds (TLS) a	l Ph.D mmeti i data	theses <b>y and remote</b> " (2017), " <b>Ge</b>	orefer	encing and		
Technical skills and competences	Usa ima scar	ge of open-sou ges, aerial ima nner point cloud	irce and iges, U ds (ALS	topographic me d commercial so IAS images, tel S). d commercial so	oftware rrestria	for processing I laser scanne	and i poir	nultitemporal a t clouds (TLS				
Computer skills and competences	topo <b>Clou</b> <b>Pho</b> Fligh	ographic measu udCompare, I otoScan, QGIS nt planning for I	uremen I <b>magin</b> and <b>Sr</b> JAV pla	Map, for graphic ts computation e Photogramm nap for photogra atforms ogramming lang	and <i>L</i> netry, immetr	eica Cyclone 3DF Zephyr	, Map , Pix-	tek Point Stu 4D Mapper,	dio, L Realit	isa, Opals,		



Artistic skills and competences	Passionate of painting, design and 3D graphic
Driver certificate	Authorization certificate D category, Driving licence B category
Other skills and competences	Extremely high workforce, with a constant desire of self-sufficiency, creative, with a special ability to find solutions to technical problems Understanding methods for rapid assessment of damages for different disaster scenarios (e.g. landslides, flooding); Collaboration with local governments, universities, non-profits, building code bodies etc. in developing codes and public policies around resilience Supporting dynamic hazard and resilience assessment done by other partners with damage information.
Additional information	Author of 29 scientific papers "in extenso" and co-author of 30 scientific papers Author of 8 specialized books Web of Science Citation Index: h-index: 4 -19 papers/73 citations; 49 verified reviews https://www.webofscience.com/wos/author/record/34535590 Scopus: h-index: 4 -15 papers/88 citations; https://www.scopus.com/authid/detail.uri?authorId=55837374900 Google Scholar Citation Index: h-index: 8 - 61 papers/338 citations https://scholar.google.com/citations?user=nKEBZFMAAAAJ&hl=en Patent application entitled <i>"INNOVATIVE CALIBRATION AND TESTING FIELD FOR THE DIGITAL CAMERAS</i> <i>MOUNTED ON UAS (Unmanned Aerial System)</i> " from 18/10/2017, no. A / 00834
	<ul> <li>Patent application entitled "Innovative method for filtering, segmenting and classifying point clouds for the derivation of digital terrain models (DTM) based on Airborne Laser Scanner (ALS) data" from 21/07/2017, no. A / 00501</li> <li>Two awards for research results -UEFISCDI</li> <li>1. "Determining the Suitable Number of Ground Control Points for UAS Images Georeferencing by Varying Number and Spatial Distribution", PN-III-P1-1.1-PRECISI-2020-49630</li> <li>2. "3D Calibration Test-Field for Digital Cameras Mounted on Unmanned Aerial Systems (UAS)", PN-III-P1-1.1-PRECISI-2019-29928</li> <li>In May 2014, May 2016, June 2017, June 2018 and June 2019 I had power point presentations, organized as seminars and lectures in the field of 3D modelling of urban area and camera calibration at the Department of Geodesy and Geoinformation, Vienna University of Technology</li> <li>In May 2015 and May 2022, I had power point presentations, organized lectures in the field of 3D modelling of urban area, at Universidadde Lisboa, Departamento de Engenharia Geográfica, Geofísica e Energia Donation of "Opals" software (Department of Geodesy and Geoinformation, Vienna University of Technology - Prof. Univ. Ph.D Eng. Norbert Pfeifer) for "Photogrammetry, Remote Sensing and Digital Cartography" laboratory (TU lasi)</li> <li>Acquisition of the low-cost UAV "DJI Phantom 4 Pro v2" and "DJI Mavic Mini 2" for "Photogrammetry, Remote Sensing and Digital Cartography" laboratory (TU lasi)</li> <li>Acquisition of the Council of Department of "Terrestrial Measurements and Cadastre"</li> <li>Member of the Council of Department of "Terrestrial Measurements and Cadastre"</li> <li>Member of Romanian Union of Geodetic Engineers</li> <li>Member of Romanian Union o</li></ul>

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Member of international scientific review committees for conferences

- International Conference on Multidisciplinary Academic Research & Global Innovation (MARGI-2016-1. 2021) Beijing, China
- 2. International Conference on Multidisciplinary Innovation in Academic Research (MIAR-2016-2021) Almaty, Kazakhstan
- 3. International Conference on "Global Issues in Multidisciplinary Academic Research" (GIMAR-2016-2021), Dubai-UAE;
- International Conference on "Multydisciplinary innovation in business engineeing science & technology" 4. (MI-BEST-2016-2021), Manila Philippines
- 5. International Conference on "Trends in Multydisciplinary business & economic research" (TMBER-2016-2021), Bangkok, Thailand
- 6. International Conference on "New directions in Multydisciplinary research & practice" (NDMRP-2016-2021), Istanbul, Turkey
- 7. International Conference on "Multidisciplinary trends in academic research" (MTAR-2016-2021), Bangkok, Thailand.
- 8. InternationI Conference on Global Trends in Academic Research, (GTAR-2016-2021), Bandung, Indonesia
- 9. International Conference on Multidisciplinary Innovation for Sustainability and Growth (MISG-2016-2021) Kuala Lumpur, Malaysia
- 10. International Conference on "Multidisciplinarytrends in academic research" (MTAR-2015-2021), Bangkok, Thailand.
- 11. International Conference on "Innovative trends in multidisciplinary academic research" (ITMAR-2015-2021), Istanbul, Turkey.
- 12. Emerging trends in academic research (ETAR-2015-2021), Bali Indonesia.
- International Conference on Innovation Challenges in Multidisciplinary Research & Practice (ICMRP-2015-2021) Kuala Lumpur, Malaysia

Organizer of national and international scientific manifestations

- Member of organizing committee of "Scientific Symposium with International participation Geomat" (2013-2019, 2021, 2022), Faculty of Hydrotechnical Engineering, Geodesy and Environmental Engineering, lasi.
- 2. Member of organizing committee of "Scientific Symposium with International participation Geoprevi 2015", Faculty of Geodesy, Technical University of Civil Engineering Bucharest.
- Main organizer of "Georeferencing and processing of terrestrial laser scanner point clouds (TLS) 3. and UAV images" workshop, 28-29 March 2019, Faculty of Hydrotechnical Engineering, Geodesy and Environmental Engineering, Department of "Terrestrial Measurements and Cadastre", lasi.
- Main organizer of "Learn more about Photogrammetry and Remote Sensing, IVth ed." workshop, 11-4. 12 April 2019, Faculty of Hydrotechnical Engineering, Geodesy and Environmental Engineering, Department of "Terrestrial Measurements and Cadastre", lasi.
- Main organizer of "Learn more about Photogrammetry and Remote Sensing, Illrd ed." workshop, 19-5. 20 April 2018, Faculty of Hydrotechnical Engineering, Geodesy and Environmental Engineering, Department of "Terrestrial Measurements and Cadastre", lasi.
- 6. Project manager of "Learn more about Photogrammetry and Remote Sensing, second ed.", 27-28 April 2017 (winner of a national competition).
- Main organizer of "Learn more about Photogrammetry and Remote Sensing, first ed." workshop, 21-7. 22 April 2016, Faculty of Hydrotechnical Engineering, Geodesy and Environmental Engineering, Department of "Terrestrial Measurements and Cadastre", lasi.
- 8. Main organizer of "Georeferencing and processing of laser scanning data" workshop, 11-12 May 2017, Faculty of Hydrotechnical Engineering, Geodesy and Environmental Engineering, Department of "Terrestrial Measurements and Cadastre", lasi.

#### **Reference** persons

- Norbert Pfeifer, Prof. Univ. Ph.D Eng. Viena University of Technology

- Petre Iuliu Dragomir, Prof. Univ. Ph.D Eng. Technical University of Civil Engineering Bucharest, Romania

Appendix Scientific activity

A.

5



# Appendix

# Scientific papers (ISI journals)

- Breaban, A.-I.; Oniga, V.-E.; Chirila, C.; Loghin, A.-M.; Pfeifer, N.; Macovei, M.; Nicuta Precul, A.-M. Proposed Methodology for Accuracy Improvement of LOD1 3D Building Models Created Based on Stereo Pléiades Satellite Imagery. Remote Sens. 2022, 14, 6293. https://doi.org/10.3390/rs14246293
- Oniga, V.-E.; Breaban, A.-I.; Pfeifer, N.; Diac, M. 3D Modeling of Urban Area Based on Oblique UAS Images—An End-to-End Pipeline. Remote Sens. 2022, 14, 422. <u>https://doi.org/10.3390/rs14020422</u>
   Pradeep G.S., Danumah Jean Homian, Nikhil S., Prasad Megha K., Patel Nilanchal, Mammen Pratheesh C., Rajaneesh A., <u>Oniga Valeria-Ersilia</u>, Ajin R. S.,
- Pradeep G.S., Danumah Jean Homian, Nikhil S., Prasad Megha K., Patel Nilanchal, Mammen Pratheesh C., Rajaneesh A., Oniga Valeria-Ersilia, Ajin R. S., Kuriakose Sekhar L. (2022)- Forest Fire Risk Zone Mapping of Eravikulam National Park in India: A Comparison Between Frequency Ratio and Analytic Hierarchy Process Methods, Croatian Journal of Forest Engineering 43(1), pp. 22, (IF 2.088), DOI: 10.5552/crojfe.2022.1137
- 4. E., Oniga, A-I., Breaban, N. Pfeifer, C., Chirilă, (2020)- Determining the Suitable Number of Ground Control Points for UAS Images Georeferencing by Varying Number and Spatial Distribution, Remote Sensing (IF 4.118), DOI: 10.3390/rs12050876
- 5. E., Oniga, N. Pfeifer, A., Loghin, (2018)-3D calibration test-field for digital cameras mounted on Unmanned Aerial Systems (UAS), Remote Sens. 2018, 10(12), 2017; https://doi.org/10.3390/rs10122017.
- Oniga, E., Chirilă, C. (2016), Analogous vs. digital cameras for buildings 3D models creation, Environmental Engineering and Management Journal, Volume 15/2016, no. 6, pag. 1293-1303, June 2016, Iasi, Romania, ISSN 1582-9596.
- 7. Oniga, E., Diac, M. (2013) Metric and non-metric cameras calibration for the improvement of real-time monitoring process results, Environmental Engineering and Management Journal, Volume 12/2013, no. 4, pag. 719-726, April 2013, Iasi, Romania, ISSN 1582-9596.
- Moca, V., Popia, A., Oniga, E., Sălceanu G. (2013) Analysis of deformations in cartographic projections used in cadastral works peformed in the city of Iasi, Environmental Engineering and Management Journal, Volume 12/2013, no. 4, pag. 699-708, April 2013, Iasi, Romania, ISSN 1582-9596.

# Scientific papers (ISI Proceedings)

- 9. Oniga, E., Chirilă, C., Stătescu, F. (2017), Accuracy Assessment of a complex building 3D Model reconstructed from images acquired with a low-cost UAV, Int. Arch. Photogramm. Remote Sens. Spatial Inf. Sci., XLII-2/W3, pp. 551-558, doi:10.5194/isprs-archives-XLII-2-W3-551-2017, 2017.
- 10. Oniga, E., Macovei, M., Negrila, A. (2017), Accuracy assessment of a 3D model reconstructed from images acquired with a low-cost UAV, Modern Technologies for the 3rd Millennium (23-24 March, 2017 Oradea, Romania), 61-66.
- 11. Oniga, E., Cardei, M. (2015), A new method for the accuracy evaluation of a manufactured piece, Published under licence by IOP Publishing Ltd., IOP Conference Series: Materials Science and Engineering, Volume 95 (1), 012088, (double blind peer-review article), http://iopscience.iop.org/article/10.1088/1757-899X/95/1/012088/meta
- 12. Diac, M., Chirilä, C., Oniga, E., Hogas H. (2016)- Creating hydrological risk maps based on the rectified digital terrain model in the Nicolina Hydrographical basin, 16th International Multidisciplinary Scientific Geo Conference, SGEM 2016, Albena, Bulgaria, Book 2 Water Resources, forest, marine and ocean ecosystems, Volume I, ISSN: 1314-2704, doi: 10.5593/sgem2016B31, pp. 219-226.
- Oniga, E., Chirila, C., Macovei, M. (2016) Low-cost aerial unmanned aerial systems in cadastral applications, 16th International Multidisciplinary Scientific Geo Conference, SGEM 2016, Albena, Bulgaria, Book 2 Informatics, Geoinformatics and Remote Sensing, Volume II, , ISSN: 1314-2704, DOI: 10.5593/sgem2016B22, pp. 947-954.
- Chirila, C., Oniga, E., Dumitru, P. D. (2014) Quasigeoid fitting to the GNSS/levelling benchmarks in lasi city area, 14<sup>th</sup> International Multidisciplinary Scientific Geo Conference, SGEM 2014, 17 – 26 June, 2014, Albena, Bulgaria, Environmental Economy, ISSN: 1314-2704, Conference proceedings, Volume II, pp. 411-418.
- 15. Oniga, E., Chirila, C. (2013)- Object based digital non-metric images accuracy, 13th International Multidisciplinary Scientific Geo Conference, SGEM 2013, Albena, Bulgaria, Volume II, Environmental Economy, ISSN: 1314-2704, Cross Ref, SCOPUS, pp. 655-662.
- 16. Chirila, C. Oniga, E., Mihalache, R. M. (2013) Local quasigeoid modelling in lasi city area, 13th International Multidisciplinary Scientific Geo Conference, SGEM 2013, Albena, Bulgaria, Volume II, Environmental Economy, ISSN: 1314-2704, Cross Ref, SCOPUS, pp. 301-308.
- Oniga, E. (2012) Comparative study on methods for 3D modeling of urban areas, International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences, Volume XXXIX-B6, 2012, pp. 155-160, XXII ISPRS Congress, 25 August – 01 September 2012, Melbourne, Australia, eISSN 2194-9034.
- Oniga, E. (2012) A new approach for the semi-automatic texture generation of the buildings facades, from terrestrial laser scanner data, International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences, Volume XXXIX-B6, 2012, pp. 161-166, XXII ISPRS Congress, 25 August – 01 September 2012, Melbourne, Australia, eISSN 2194-9034.

#### Scientific papers (indexed BDI)

- Breaban, A.-I.; Oniga, V.-E.; Statescu, F. (2021) A machine learning approach for urban area mapping, International Multidisciplinary Scientific GeoConference: SGEM Sofia, Vol. 21, Iss. 2.1, (2021), pp. 391-398. DOI:10.5593/sgem2021/2.1/s11.78.
- 20. Oniga V.-E, Crenganis L., Diac M., Chirila C. (2020) Overview on remote sensing methods and data sources for floods and landslides management, Bulletin of the Polytechnic Institute of Iasi-Construction & Architecture Section, Tomme: 66 (70), Issue 4, pp. 59-70.
- 21. Chirila C., Oniga V.-E, Diac M., Crenganis L. (2020) Overview of Spatial Reference Systems for Hazard Risk Management in the NE Region of Romania, Bulletin of the Polytechnic Institute of Iasi-Construction & Architecture Section, Tomme: 66 (70), Issue 4, pp. 85-98.
- 22. Moca V., <u>Oniga V.-E.</u>, Onu C., Macovei M., Oprea R., Hutanu C. (2020)- Analysis of the Deformations Recorded in the Extreme Geographical Administrative

   Territorial Units of Romania Using the National 1970 Stereographic Projection System, American Journal of Engineering Research (AJER), Vol 9 (5), pp. 58-70.
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- 2. Oniga E. (2020) Photogrammetry. Practical works (Part I), ISBN 978-606-68-5749-9, Performantica, Iasi, 2020
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- 8. Oniga E. (2014) Buildings 3D modelling by clasical and digital photogrammetry, ISBN 978-606-687-119-8, Tehnopress, Iasi, Romania, 282 pp.

#### **Research contracts**

- 1. CONTRACT Grant type PN III- Research projects to stimulate young independent teams (TE), financed by contract no. 142TE/2022-project manager (446 430 RON)
- 2. CONTRACT Intern grant- type PUBLICATION- financed by contract no. GI/P1/01.07.2021 project manager (45 000 RON)
- 3. CONTRACT Grant type PN III-Mobility projects for researchers, financed by contract no. 203/29.10.2019-project manager (7 109.67 RON)
- 4. CONTRACT Grant type PN III-Mobility projects for researchers, financed by contract no. 138/05.07.2018-project manager (10 274 RON)
- CONTRACT Grant type PN III-Innovation check, with the title "Innovative calibration and testing field for the non-metric digital cameras mounted on Unmanned Aerial Vehicles", financed by contract no. 121Cl/2017-project manager (44.464 RON)
- 6. Member in research team: 2020-2022 "Integrated Networks for Hazard Risk Management HAZARM", (294000 euro)
- 7. Member in research team: 2014-2015- "Environmental Research Center for Risk Management/ Acronym GRIM" POSCCE A2-O2.2.1.-2013-1; Operation 2.2.1, ID 1942, no. 663/14.08.2014.

#### Research grants with research institutes or companies

1. CONTRACT of providing services, Beneficiary University of Bucharest by contract no. 10209/10.09.2021, project manager (20 000 RON)

## Participation at symposiums and workshops

- 1 Scientific summer school with international participation "VOLTA", 25-28 September, 2018, Vienna, Austria.
- 2 Scientific workshop with international participation "56th Photogrammetric Week", 11-15 September, 2017, Stuttgart, Germany.
- 3 Scientific workshop with international participation "3D Arch -3D Virtual Reconstruction and Visualization of Complex Architectures" -1-3 March 2017, Nafplio, Greece.
- 4 Scientific symposium with international participation GEOMAT-2016-2019, lasi, Romania.
- 5 Scientific conference with international participation **"The 3rd International Conference ModTech 2015 -Modern Technologies in Industrial Engineering**", 17-20 June, 2015, Mamaia, Romania.
- 6 Scientific conference with international participation "Conference of Agriculture and Food Engineering", 22-24 Octomber 2015, U.S.A.M.V., lasi, Romania.
- 7 Scientific symposium with international participation "GeoPreVi-2015", 8-9 May 2015, Bucharest, Romania.
- 8 Scientific symposium with international participation "Horticulture science, quality, variety, harmony", 24- 26 May 2012, U.S.A.M.V. lasi.
- 9 Scientific symposium with international participation "GeoCAD 2012", 11-12 May, Alba-Iulia, Romania.
- 10 Scientific symposium with international participation "Achievements and prospects in hydrotechnical, geodesy and environmental engineering", 25-26 Octombrie, 2012, Iasi, Romania.
- 11 Scientific symposium with international participation **"The 3rd Conference of the young researchers**, Technical University of Constructions Bucharest, 15-16 November, Bucharest, Romania, 2012.
- 12 Scientific conference with international participation **"XXII International Society for Photogrammetry & Remote Sensing Congress"** 25 August 1 September 2012, Melbourne, Australia.
- 13 Scientific symposium with international participation "GeoPreVi-2011", 12-13 May 2011, Bucharest, Romania.
- 14 Scientific symposium with international participation "The 2<sup>nd</sup>Conference of the Young Researchers" Technical University of Civil Engineering Bucharest, 17-18 November 2011, Bucharest, Romania.
- 15 Conference of the project finalization "Online university collaboration network to develop the ability to provide higher skills in geodesy", 17 September 2012, Ramada Hotel, Iasi, Romania.

# Courses and training

- 1. Training at 3D Optical Metrology (3DOM) research unit/ Bruno Kessler Foundation (FBK), 24-28 September 2022, Trento, italy
- 2. EU Drone Pilot Training Specific Category Level 3, 12-15 June 2022, BCN Drone Center, Barcelona (Moia), Spain
- 3. Workshop for "Vulcan" and "Maptek-I Site Studio" software- "Train the trainer", 9-11 July 2019, Edinburgh, UK
- 4. Training workshop for "3DF ZEPHYR software"- 30 September-2 October 2019, Verona, Italy
- 5. "Tran-Atlantic Training- Integration of Radar and Optical Remote Sensing in Studying Land Cover/Land Use Change"-7-11 lunie 2018, Zagreb, Croatia
- 6. Remote sensing-from basics to advanced methods-Uwe Sorgel and Norbert Haala- Stuttgart University, 10 September 2017, Stuttgart, Germany
- 7. Training for "Maptek I-Site Studio" software— Charles Xandri- "Gheorghe Asachi" Technical University of Iasi, 8 -10 April 2016, Iasi, Romania
- 8. Training for "Erdas Imagine" software— Intergraph Computer Services, "Gheorghe Asachi" Technical University of Iasi, 27 June 1 July 2016, Iasi, Romania 9. Monitoring Climate from Space — European Space Agency, 25 July-28 August 2016, FutureLearn- Online
- 10. Stereoscopy-An Introduction to Victorian Stereo Photography University of Edinburgh, 1 August-14 August 2016, FutureLearn- Online
- 11. Earth Observation from Space European Space Agency, 12 September-10 October 2016, FutureLearn- Online
- 12. Monitoring the Oceans from Space- Eumetsat, 24 October-21 November 2016, FutureLearn- Online
- 13. Training for "Pix4D Mapper Pro" software SysCAD Solutions, "Gheorghe Asachi" Technical University of lasi, 5-6 November 2015, lasi, Romania



- 14. Training for "Maptek I-Site 8820" terrestrial laser scanner— Comservice company, "Gheorghe Asachi" Technical University of Iasi, 13 November 15 November 2015, Iasi, Romania
- 15. LiDAR Waveform: The potential and benefits for topographic mapping CHARLES TOTH XXII ISPRS Congress, 25 August 01 September 2012, Melbourne, Australia
- 16. Point clouds from ALS and aerial images for vegetation analysis Technische Universität Wien, 2012
- 17. **Training for "E-learning**" platform- "Gheorghe Asachi" Technical University of Iasi, Faculty of Hydrotechnical Engineering, Geodesy and Environmental Engineering, within POS-DRU\_E-learning project, 12.03-16.03 and 26.03.-30.03.2012.

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