

Curriculum vitae Europass



Personal information

First name(s) / Surname(s) ONIGA Valeria-Ersilia

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Fax(es)

E-mail ersilia.oniga@tuiasi.ro

Nationality Romanian

Date of birth 12 October 1983

> Gender Female

Current position I Occupational field

Associate Professor at TU lasi/ Photogrammetry and Remote Sensing

Professional experience

February 2018→Present

Occupation or position held **Associate Professor**

Main activities and responsibilities teaching lectures, projects and practical laboratory works, organization of practical activities for students,

head of "Photogrammetry, Remote Sensing and Digital Cartography" laboratory,

member in doctoral guidance boards and doctoral commissions,

scientific coordinator of bachelor theses,

scientific coordinator of master theses.

Name and address of employer "Gheorghe Asachi" Technical University of lasi, Dimitrie Mangeron Boulevard, no.67, 700050,

lasi, Romania, Phone/Fax +40232231041, http://www.tuiasi.ro

Type of business or sector Engineer, Civil Engineering, Geodetic Engineering

> Dates October 2014 → February 2018

Occupation or position held Lecturer

Main activities and responsibilities teaching lectures, projects and practical laboratory works,

organization of practical activities for students,

head of "Photogrammetry, Remote Sensing and Digital Cartography" laboratory,

member in doctoral guidance boards, scientific coordinator of bachelor theses.

scientific coordinator of master theses.

Name and address of employer "Gheorghe Asachi" Technical University of Iasi, Dimitrie Mangeron Boulevard, no.67, 700050, Iasi,

Romania, Phone/Fax +40232231041, http://www.tuiasi.ro

Type of business or sector Engineer, Civil Engineering, Geodetic Engineering

> February 2009 → October 2014 Dates

Occupation or position held **Teaching Assistant**

Main activities and responsibilities teaching projects and practical laboratory works,

organization of practical activities for students,

scientific coordinator of bachelor theses.

"Gheorghe Asachi" Technical University of Iasi, Dimitrie Mangeron Boulevard, no.67, 700050, Iasi, Name and address of employer

Romania, Phone/Fax +40232231041, http://www.tuiasi.ro

Engineer, Civil Engineering, Geodetic Engineering Type of business or sector





Dates February 2007 → 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, lasi, Romania

Phone/Fax:+40 232 410394, :+40 232 410394

E-mail: aqua@mail.dntis.ro

Type of business or sector Hydrotechnical Construction Design

> May 2008 → May 2009 Dates

Geodesy Dipl. Engineer Occupation or position held

Main activities and responsibilities Carrying out works related to geodesy and cadastre domains

S.C. "S.C "TOPOCAD COMPANY" S.R.L", Petre Tuţea Street 2B, Bl. 907, Tr.1, et.4, ap.14, lasi, Romania Name and address of employer

Phone/Fax:+40 232 225191

Type of business or sector Carrying out works related to Geodesy, Topography, Cadastre and Cartography domains

Education and training

Period October 2009→ September 2013

Title of qualification awarded PhD in Civil Engineering, by Order no.5581 MD of the Ministry of Education, Research and

Innovation from 3.12.2013

Disciplines approach/competence Ph.D.Thesis title: "Comparative study on methods for 3D modelling of urban area" (295 pages with

annexes), 2013; scientific coordinator: Prof. univ. Ph.D Eng. Dumitru Onose

Name and type of organisation Technical University of Civil Engineering Bucharest, Bd. Lacul Tei, no. 124, 020396, Bucharest,

providing education and training Phone/Fax 021 242 1208, http://www.utcb.ro/

> Period October 2003→ June 2007

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

Disciplines approach/competence Educational Psychology; Pedagogy, Methodology of teaching specialty; Teaching practicum;

Counselling and school orientation; Classroom management.

"Gheorghe Asachi" Technical University of lasi, Romania, Bd. Dimitrie Mangeron, no.67, 700050, Name and type of organisation providing education and training

lasi, Romania, Phone/Fax +40232231041, http://www.tuiasi.ro/, Department for teacher's preparation

October 2002 → July 2007 Period

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

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.

"Gheorghe Asachi" Technical University of Iasi, Romania, Bd. Dimitrie Mangeron, no.67, 700050, Name and type of organisation providing education and training lasi, Romania, Phone/Fax +40232231041, http://www.tuiasi.ro/,Faculty of Hydrotechnical Engineering,

Geodesy and Environmental Engineering, Department of "Terrestrial Measurements and Cadastre"

ISCED 6 Level in national or international

classification



Personal skills and competences

Mother tongue Romanian
Other languages English, French

Self-assessment	Understanding				Speaking				Writing	
European Level (*)	Listening		Reading		Spoken interaction		Spoken production		Written Expression	
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 Sociable, team spirit, born leader

Organisational skills and competences As a student I was involved in many extracurricular activities.

Facile interactions with the academic, economic and geodetic domains.

Scientific coordinator of the bachelor theses and master theses

Main organizer of workshops: "Learn more about photogrammetry and remote sensing" (2016-2019), "Georeferencing and processing of laser scanning data" (2017), "Georeferencing and processing of terrestrial laser scanner point clouds (TLS) and UAV images" (2019) and member of GEOMAT Symposium against a committee (2013), 2019)

of GEOMAT Symposium organizing committee (2013 - 2019).

Usage of open-source and commercial software for processing and multitemporal analysis of satellite images, aerial images, UAS images, terrestrial laser scanner point clouds (TLS) and aerial laser

scanner point clouds (ALS).

Usage of open-source and commercial software for 3D building model creation.

Computer skills and competences Mastering the Autodesk Map, Corel Draw, for graphic applications, TopoLT, TopoSys and MapSys

software for topographic measurements computation and Leica Cyclone, Maptek I-Site Sudio, Lisa, Opals, CloudCompare, PhotomodelerScanner, Imagine Photogrammetry, Pix4D, PhotoScan and

Snap for photogrammetry and remote sensing data processing.

Flight planning for UAV platforms

A good grasp of Matlab programming language.

Artistic skills and competences Passionate of painting, designing and 3D graphic

Drivers 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

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)

Author of 27 scientific papers "in extenso" and co-author of 26 scientific papers

Author of 8 specialized books

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

In May 2015, 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

Reviewer for Journal of Engineering and Technological Sciences, ISSN: 2338-5502

Reviewer for "International Journal of Architectural Heritage", Print ISSN: 1558-3058 Online ISSN: 1558-3066

Reviewer for "Sensors", ISSN 1424-8220

Reviewer for "Remote Sensing", ISSN 2072-4292

Reviewer for IEEE-Access, ISSN 2169-3536

Reviewer for "International Journal of Environment and Waste Management", ISSN online: 1478-9868, ISSN print: 1478-9876

Reviewer for "International Journal of Image and Data Fusion", Print ISSN: 1947-9832 Online ISSN: 1947-9824 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)

Acquisition of a low-cost UAV "DJI Phantom 3 Standard" for "Photogrammetry, Remote Sensing and Digital Cartography" laboratory (TU Iasi)

Designing and implementation of a 3D calibration object for digital non-metric cameras calibration for "Photogrammetry, Remote Sensing and Digital Cartography" laboratory (TU lasi)

Member of Romanian Geodetics Union

Member of Romanian Society of Photogrammetry and Remote Sensing

Member of international scientific review committees for conferences

President and founding member of "Young Photogrammetrist Society"

Member of international scientific review committees for conferences

- International Conference on Multidisciplinary Academic Research & Global Innovation (MARGI-2016-2020) Beijing, China
- International Conference on Multidisciplinary Innovation in Academic Research (MIAR-2016-2020) Almaty, Kazakhstan
- International Conference on "Global Issues in Multidisciplinary Academic Research" (GIMAR-2016-2020), Dubai-UAE:
- International Conference on "Multydisciplinary innovation in business engineeing science & technology" (MI-BEST-2016-2020), Manila Philippines
- International Conference on "Trends in Multydisciplinary business & economic research" (TMBER-2016-2020), Bangkok, Thailand
- International Conference on "New directions in Multydisciplinary research & practice" (NDMRP-2016-2020), Istanbul, Turkey
- International Conference on "Multidisciplinary trends in academic research" (MTAR-2016-2020), Bangkok, Thailand.
- Internation Conference on Global Trends in Academic Research, (GTAR-2016-2020), Bandung, Indonesia
- International Conference on Multidisciplinary Innovation for Sustainability and Growth (MISG-2016-2020) Kuala Lumpur, Malaysia
- International Conference on "Multidisciplinarytrends in academic research" (MTAR-2015-2020), Bangkok, Thailand.
- International Conference on "Innovative trends in multidisciplinary academic research" (ITMAR-2015-2020). Istanbul. Turkey.
- 12. Emerging trends in academic research (ETAR-2015-2020), Bali Indonesia.
- International Conference on Innovation Challenges in Multidisciplinary Research & Practice (ICMRP-2015-2020) Kuala Lumpur, Malaysia





Organizer of national and international scientific manifestations

- 1. Member of organizing committee of "Scientific Symposium with International participation Geomat" (2013-2019), Faculty of Hydrotechnical Engineering, Geodesy and Environmental Engineering, Iasi.
- 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) and UAV images" workshop, 28-29 March 2019, Faculty of Hydrotechnical Engineering, Geodesy and Environmental Engineering, Department of "Terrestrial Measurements and Cadastre", Iasi.
- 4. Main organizer of "Learn more about Photogrammetry and Remote Sensing, IVth ed." workshop, 11-12 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, IIIrd ed." workshop, 19-20 April 2018, Faculty of Hydrotechnical Engineering, Geodesy and Environmental Engineering, Department of "Terrestrial Measurements and Cadastre", Iasi.
- Project manager of "Learn more about Photogrammetry and Remote Sensing, second ed.", 27-28 April 2017 (winner of a national competition).
- 7. Main organizer of "Learn more about Photogrammetry and Remote Sensing, first ed." workshop, 21-22 April 2016, Faculty of Hydrotechnical Engineering, Geodesy and Environmental Engineering, Department of "Terrestrial Measurements and Cadastre", lasi.
- 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", Iasi.

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





Appendix

Scientific papers (ISI journals)

- 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
- 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.
- 3. 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.
- 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 lasi, Environmental Engineering and Management Journal, Volume 12/2013, no. 4, pag. 699-708, April 2013, Iasi, Romania, ISSN 1582-9596.

Scientific papers (ISI Proceedings)

- Oniga, E., Chirilä, 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.
- 7. 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.
- 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
- DIAC, M., Chirilă, 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, 14th 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.
- 12. 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.
- 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.
- 14. 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.
- 15. 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)

- 16. Moca V., Oniga V.-E., 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.
- 17. E., Oniga, A. Breaban, F., Statescu, (2018) -Determining the optimum number of ground control points for obtaining high precision results based on UAS images, Proceedings, 2(7) (doi: 10.3390/ecrs-2-05165).
- 18. A. Loghin, E. Oniga, C-R. Giurma-Handley, (2018) 3D point cloud classification of natural environments using Airborne Laser Scanning Data, American Journal of Engineering Research, Volume-7, Issue-2, pp-191-197, e-ISSN: 2320-0847.
- 19. Iurist, N.V, Oniga, V.E, Stătescu, F (2017) Tree-crown delineation based on very high resolution satellite images, Proceedings of the Biennial International Symposium. Forest and sustainable development, Brasov, 7-8th October 2016, pp. 61-67
- Păun, C. D., Oniga, V.E., Dragomir, P. I. (2017)— Three-dimensional transformation of coordinate systems using nonlinear analysis-Procustes algorithm, International Journal of Engineering Sciences &Research Technology, 6(2): February 2017, pp. 355-363, DOI: 10.5281/zenodo.291839, ISSN: 2277-9655, Impact Factor: 4.116.
- 21. N.V. lurist (Dumitraşcu), V.E. Oniga, F.Statescu, C. Marcu (2017), Floods Damage estimation using Sentinel-1 satellite images. Case study-Galati county, Romania, Journal of Geodesy and Cadastre RevCAD, no. 22, pp. 115-122, Alba Iulia, Romania, ISSN 1583-2279.
- 22. Păun, C. D., Oniga, V.E, Dragomir, P. I., Diac, M. (2017) The remotely piloted aircraft system for 3D modelling of a cultural heritage building, Journal of Geodesy and Cadastre RevCAD, no. 22, pp. 203-212, Alba Iulia, Romania, ISSN 1583-2279.
- A. Loghin, I. Giurma, E. Oniga (2017) Digital Surface Models derivation from Airborne Laser Scanning Data, Journal of Geodesy and Cadastre RevCAD, no. 22, pp. 141-150, Alba Iulia, Romania, ISSN 1583-2279.
- 24. E. Oniga, A. Savu, A. Negrilă (2016)-The evaluation of CloudCompare software in the process of TLS point clouds registration, Journal of Geodesy and Cadastre RevCAD, no. 21, pp. 117-124, Alba Iulia, Romania, ISSN 1583-2279.
- 25. A. Loghin, E. Oniga, Wieser, M. (2016), Analysing and modelling terrain surface changes using airborne laser scanning data, World Journal of Engineering Research and Technology WJERT, Vol. 2, Issue 3, pp. 87-95, ISSN 2454-695X.
- 26. E. Oniga, A. Loghin, Păun, C. D. (2016), Crashed vehicle profile creation based on digital close-range photogrammetry, World Journal of Engineering Research and Technology WJERT, Vol. 2, Issue 4, pp. 16-29, ISSN 2454-695X.
- A. Loghin, E. Oniga (2015) -Digital images and total station measurements fusion for 3D buildings models creation, Journal of Geodesy and Cadastre RevCAD, no. 18, pp. 64-71, Alba Iulia, Romania, ISSN 1583-2279.
- 28. E. Oniga, ONIGA, M.-B. (2015), Testing the accuracy of different calibration methods, Journal of Geodesy, Cartography and Cadastre, Bucuresti, Romania, pp.8-17.

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- 29. Păun, C. D., Oniga, V. E., Ciobanu, L. E. (2015), Testing a new method of digital images acquisition in the process of 3D reconstruction of an object, Journal of Geodesy, Cartography and Cadastre, Bucuresti, Romania, pp. 28-36.
- 30. A. Loghin, E. Oniga (2015) A comparative study on camera calibration algorithms, Journal of Geodesy and Cadastre RevCAD, no. 19, pp. 135-144, Alba Iulia, Romania, ISSN 1583-2279.
- 31. A. Loghin, Ajin, R.S. E. Oniga (2015) The three-dimensional geodetic networks adjustment automation using Matlab, Journal of Geodesy and Cadastre RevCAD, no. 19, pp. 15-22, Alba Iulia, Romania, ISSN 1583-2279.
- 32. N.V. lurist (Dumitraşcu), E. Oniga, Statescu, F. (2015) "Comparative study on digital terrain models created based on ALS data and Pleiades images", Journal of Geodesy and Cadastre RevCAD, no. 19, pp. 127-134, Alba Iulia, Romania, ISSN 1583-2279.
- 33. Butnariu, D. G., E. Oniga, Statescu, F. (2015)- A new expeditious method for buildings 3D models creation, Journal of Geodesy and Cadastre RevCAD, no. 19, pp. 103-112, Alba Iulia, Romania, ISSN 1583-2279.
- 34. Butnariu, D. G., E. Oniga, Statescu, F. (2015)- Tracking down the modifications of the right bank of the Prut river in the territorial administrative unit of Prisacani commune-lasi county, journal "Scientific papers", Vol. 58 (1) 2015, series Agronomy, pp.147-150, lasi, Romania, electronic ISSN 2069-
- 35. E. Oniga, Cardei, M. (2015)- Vertical accuracy evaluation of digital terrain models created based on line-following digitization of contour maps, revista "Lucrari Stiinţifice", Vol. 58 (1) 2015, seria Agronomie, pp.171-176, Iasi, Romania, electronic ISSN 2069-6727.
- 36. Oniga, E. Păun, C. D., Cardei, M. (2015) Airborne laser scanning data for urban area analysis, Proceedings of the Biennial International Symposium. Forest and sustainable development, October 24-25, Brasov, Romania, pp. 322-327,ISSN 1843-505X.
- 37. Loghin, A. Oniga, E. (2014) The influence of camera calibration parameters on 3D buildings models creation, Journal of Geodesy and Cadastre RevCAD, no. 16, pp. 178-185, Alba Iulia, Romania, ISSN 1583-2279.
- 38. Oniga, E. (2014) A new method for buildings 3D models comparison, Journal of Geodesy and Cadastre RevCAD, no. 17, pp. 60-67, Alba Iulia, Romania, ISSN 1583-2279.
- 39. Păun, C. D., Oniga, E. (2013) ALS data for vegetation analysis, Journal of Geodesy and Cadastre RevCAD, no. 15, pp. 329-337, Alba Iulia, Romania, ISSN 1583-2279.
- 40. Oniga, E., Chirilă C. (2013) Hausdorff distance for the differences calculation between 3D surfaces, Journal of Geodesy and Cadastre RevCAD, no. 15, pp. 193-202, Alba Iulia, Romania, ISSN 1583-2279.
- 41. Oniga, E., Şutu, M. (2012) On automatic texture growing from Voronoi computed building facade surfaces using color similarity detection, Journal of Geodesy and Cadastre RevCAD, no. 12, pp. 133-139, Alba Iulia, Romania, ISSN 1583-2279.
- 42. Oniga, E., Crenganiş (Bargan), L. (2012)— 3D representation of the topographical surfaces for the rehabilitation and development of the stock ponds, Volume 55, no. 1, series Horticulture, 2012, pp. 531-536, Iasi, Romania, ISSN 1454-7376.
- 43. Moca, V., Oniga, E., Cardei, M. (2012) Georeferentiation of the graphic fund for topographic plans drawn up on geodesic trapezia at general cadastral works, Volume 55, no. 1, series Horticulture, 2012, pp. 525-530, lasi, Romania, ISSN 1454-7376.
- 44. Oniga, E., Chirilă C. (2012)— Complex roof structures generalized representation established by approximating the mathematical shape using the least-squares method, Scientific Journal "Mathematical Modelling in Civil Engineering", Vol.8. no.4, pag. 178-187, December 2012, Bucharest, Romania, ISSN 2066-6926.
- 45. Oniga, E., Chirilă C., Şutu, M. (2012)— Terrestrial laser scanner surveying versus total station surveying for 3D building model generation, Scientific Journal "Mathematical Modelling in Civil Engineering", Vol. 8. no. 4, pag. 168-177, December 2012, Bucharest, Romania, ISSN 2066-6926.
- 46. Oniga, E. (2011)- Comparative study on methods for 3D modeling of urban areas case study the "Department of terrestrial measurements and cadastre" building, laşi city, Scientific Journal "Mathematical Modelling in Civil Engineering", Vol.7. no.4, pag. 188-197, December 2011, Bucharest, Romania, ISSN 2066-6926.
- 47. Moca, V., Oniga, E., (2011) The adoption of some local stereographic projections in the general cadastre work from geographically extreme localities of Romania, Scientificsymposium with international participation "Horticulture science, quality, variety, harmony - 60 years of higher educationinHorticulture science on lasi", 26 to 28 May 2011, U.S.A.M.V. lasi, volume 54, Horticulture Series, "Ion Ionescu de la Brad" Editure, lasi, (ISSN 1454-7376), pp. 543-550.

Scientific papers (journals unindexed)

- 48. Moca, V., Oniga, E. (2010) Studies on deformations in 1970 stereographical projection and calculation of a local stereographic projection for the Radauti-Prut territory, Botosani, Bul.I.P. lasi, Tom LVI, Fasc 2, pp. 25-36, Hydrotechnics section.
- 49. Ilioi, D., Oniga, E., Sandulache, G. (2010) The influence of troposphericretraction in GPS determinations, Bul. I.P. lasi, Tom LVI (LX), Fasc 3, Hydrotechnics section.
- 50. Hogaş, H., Ilioi, D., Oniga, E., (2010)- Considerations on parcel maps elaboration for cadastral sectors in rural administrative territories, Bul. I.P. lasi, Tom LVI (LX), Fasc. 2, Hidrotechnics section.

Scientific papers (Conference proceedings unindexed)

- 51. Oniga, E. (2011) The methodology for 3D model creation based on LiDAR and photogrammetric data-partial results, Volume of International Symposium "GEOPREVI 2011", 12 to 13 May 2011, Bucharest, Conspress Press, 2011 (ISBN 979-973-100-162-3), page 205-216.
- 52. Moca, V., Oniga, E. (2011) The deformations analysis of some cartographic projections, in the case of the localities from Romanian geographical extreme zones, Volume of International Symposium "GEOPREVI 2011", 12 to 13 May 2011, Bucharest, Conspress Press, 2011 (ISBN 979-973-100-162-3), pp. 105-116.
- 53. Oniga, E., Bargan, L. (2010) Comparative analysis of the results of preliminary calculations for design process- case study Ibaneasa III, Botosani county, International Symposium CMEQF-01, 23-27, lasi, ISSN 2069-2145.

Books

- Oniga E., Breaban A-I (2020) Application using Aerial Laser Scanning point clouds, ISBN 978-606-25-0613-1, Matrixrom, Bucharest, 2020
- Oniga E. (2020) Photogrammetry. Practical works (Part I), ISBN 978-606-68-5749-9, Performantica, Iasi, 2020
- Oniga E. (2019) -Advanced photogrammetry, ISBN: 978-606-25-0476-2, Matrixrom, Bucharest, 2019. 3.
- Oniga E. (2017) -Comparative studies on methods for 3D modelling of urban area, ISBN 978-3-330-87728-3, Editions Universitaires Europeennes.
- Oniga E., Păun C. (2017) Matlab applications for geomatics, ISBN 978-606-25-0352-9, Matrixrom, Bucharest, 256 pp. 5
- Oniga E. (2017) Digital photogrammetry. Practical works, ISBN 978-606-25-0346-8, Matrixrom, Bucharest, 297 pp. 6.
- Zăvoianu F., Oniga E. (2017) Digital photogrammetry, ISBN 978-606-25-0373-4, Matrixrom, Bucharest, 323 pp., 2017. 7.
- Oniga E. (2014) Buildings 3D modelling by clasical and digital photogrammetry, ISBN 978-606-687-119-8, Tehnopress, lasi, Romania, 282 pp.



Research contracts

Project manager

- CONTRACT Grant type PN III-Mobility projects for researchers, financed by contract no. 203/29.10.2019-project manager (7109.67 RON) 1.
- 2. 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 3. mounted on Unmanned Aerial Vehicles", financed by contract no. 121Cl/2017-project manager (44.464 RON)
- Member in research team: 2020-2022 "Integrated Networks for Hazard Risk Management HAZARM", (294000 euro)
- Member in research team: 2014-2015- "Environmental Research Center for Risk Management/ Acronym GRIM" POSCCE A2-02.2.1.-2013-1; Operation 2.2.1, ID 1942, no. 663/14.08.2014.

Participation at symposiums and workshops

- Scientific summer school with international participation "VOLTA", 25-28 September, 2018, Vienna, Austria.
- Scientific workshop with international participation "56th Photogrammetric Week", 11-15 September, 2017, Stuttgart, Germany.
- Scientific workshop with international participation "3D Arch -3D Virtual Reconstruction and Visualization of Complex Architectures" -1-3 March 2017,
- Scientific symposium with international participation GEOMAT-2016-2019, lasi, Romania.
- Scientific conference with international participation "The 3rd International Conference ModTech 2015 -Modern Technologies in Industrial Engineering", 17-20 June, 2015, Mamaia, Romania,
- Scientific conference with international participation "Conference of Agriculture and Food Engineering", 22-24 Octomber 2015, U.S.A.M.V., lasi, Romania.
- Scientific symposium with international participation "GeoPreVi-2015", 8-9 May 2015, Bucharest, Romania.
- Scientific symposium with international participation "Horticulture science, quality, variety, harmony", 24-26 May 2012, U.S.A.M.V. lasi.
- Scientific symposium with international participation "GeoCAD 2012", 11-12 May, Alba-Iulia, Romania.
- Scientific symposium with international participation "Achievements and prospects in hydrotechnical, geodesy and environmental engineering", 25-26 Octombrie, 2012, Iasi, Romania.
- 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 2nd 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

- Workshop for "Vulcan" and "Maptek-I Site Studio" software- "Train the trainer", 9-11 July 2019, Edinburgh, UK
- 2. Training workshop for "3DF ZEPFHYR software" - 30 September-2 October 2019, Verona, Italy
- "Tran-Atlantic Training-Integration of Radar and Optical Remote Sensing in Studying Land Cover/Land Use Change"-7-11 lunie 2018, Zagreb, Croatia 3.
- Remote sensing-from basics to advanced methods-Uwe Sorgel and Norbert Haala- Stuttgart University, 10 September 2017, Stuttgart, Germany 4
- Training for "Maptek I-Site Studio" software— Charles Xandri- "Gheorghe Asachi" Technical University of Iasi, 8 -10 April 2016, Iasi, Romania 5.
- Training for "Erdas Imagine" software— Intergraph Computer Services, "Gheorghe Asachi" Technical University of Iasi, 27 June 1 July 2016, Iasi, Romania 6
- Monitoring Climate from Space European Space Agency, 25 July-28 August 2016, Future Learn- Online 7.
- 8. Stereoscopy-An Introduction to Victorian Stereo Photography — University of Edinburgh, 1 August-14 August 2016, FutureLearn-Online
- Earth Observation from Space European Space Agency, 12 September-10 October 2016, FutureLearn- Online
- 10. Monitoring the Oceans from Space— Eumetsat, 24 October-21 November 2016, FutureLearn- Online
- 11. Training for 'Pix4D Mapper Pro" software SysCAD Solutions, "Gheorghe Asachi" Technical University of Iasi, 5-6 November 2015, Iasi, Romania
- 12. Training for "Maptek I-Site 8820" terrestrial laser scanner— Comservice company, "Gheorghe Asachi" Technical University of Iasi, 13 November 15 November 2015, Iasi, Romania
- 13. LiDAR Waveform: The potential and benefits for topographic mapping CHARLES TOTH XXII ISPRS Congress, 25 August 01 September 2012, Melbourne, Australia
- 14. Point clouds from ALS and aerial images for vegetation analysis Viena University of Technology, Institutul de Fotogrammetrie și Teledetecție, 2012
- 15. Training for "E-learning" platform- "Gheorghe Asachi" Technical University of lasi, 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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