



**A N E X A 4 . 1**

Nume Prenume: **Vasilca Doina**

Gradul didactic: **Sef lucrări**

Instituția unde este titular: Universitatea Tehnică de Construcții București

Facultatea: Geodezie

Departamentul: Geodezie și Fotogrammetrie

**L I S T A**

**lucrărilor științifice în domeniul disciplinelor din postul didactic**

**A. Teza de doctorat**

**Rețele geodezice de precizie în sisteme locale de proiecție executate prin tehnologii GPS**

**B. Cărți și capitole în cărți publicate în ultimii 10 ani**

1. **Reprezentări cartografice și vizualizarea informației în GIS din Planificare spațială și GIS pentru dezvoltare durabilă. Sinteze**, Editura MatrixROM, 2017, pag. 4.1-4.32 (vol. 1) și pag. 4.1-4.20 (vol.2), ISBN: 978-606-25-0378-9.

**C. Lucrări indexate ISI/BDI publicate în ultimii 10 ani**

1. **First Maps for the Systematic Registration of Property in the Kingdom of Romania**, Simpozion internațional "Prospects for 3rd Millennium Agriculture", USAMV Cluj-Napoca, 24-26 septembrie 2015.
2. **Advantages of the European Knowledge of Real Estate Regulations and Data**, coautori Badea, A. C., Badea, G., Semen, C., 16th International Multidisciplinary Scientific Geoconference SGEM 2016, Informatics, Geoinformatics and Remote Sensing, Conference Proceedings, Vol. II, pp. 53-61, ISBN 978-619-7105-59-9, DOI: 10.5593/sgem2016B22;
3. **Aspects about Deforestation Areas using GIS**, coautori Badea, A. C., Badea, G., Semen, C., 16th International Multidisciplinary Scientific Geoconference SGEM 2016, Informatics, Geoinformatics and Remote Sensing, Conference Proceedings, Vol. III, pp. 79-87, ISBN 978-619-7105-60-5, DOI: 10.5593/sgem2016B23;
4. **Application of GIS Technology in Representing the Key Events of World War II in Europe and the North of Transylvania – Romania**, coautori Semen, C., Badea, A. C., Badea, G., 16th International Multidisciplinary Scientific Geoconference SGEM 2016, Informatics, Geoinformatics and Remote Sensing, Conference Proceedings, Vol. III, pp. 71-78, ISBN 978-619-7105-60-5, DOI: 10.5593/sgem2016B23;
5. **The First Voyage Around the World — An Old Story Told Using a New Application**, coautori Semen, C., Badea, A. C., Badea, G., 16th International Multidisciplinary Scientific



- Geoconference SGEM 2016, Informatics, Geoinformatics and Remote Sensing, Conference Proceedings, Vol. III, pp. 503-510, ISBN 978-619-7105-60-5, DOI: 10.5593/sgem2016B23;
6. **How to Create a Sky Map Step by Step**, Romanian Astronomical Journal, vol. 26, no. 3, pp. 199-2014, Editura Academiei Române, București, 2016, ISSN (print) 1220-5168, ISSN (online) 2285-3758, [http://www.astro.ro/~roaj/26\\_3/19-dvasilca.pdf](http://www.astro.ro/~roaj/26_3/19-dvasilca.pdf).
  7. **Map Projections Used in Romania for Military Purposes: Lambert-Cholesky and Gauss-Krüger**, coautori A. Iliescu-Cremeneanu, Badea, A. C., Badea, G., 17th International Multidisciplinary Scientific GeoConference SGEM 2017, [www.sgem.org](http://www.sgem.org), SGEM2017 Conference Proceedings, ISBN 978-619-7408-03-4 / ISSN 1314-2704, 29 June - 5 July, 2017, Vol. 17, Issue 23, 581-588 pp, DOI: 10.5593/sgem2017/23/S11.072.
  8. **Webapp for Highlight Changes Due to Natural Disasters**, coautori, Badea, A. C., Badea, G, A. Iliescu-Cremeneanu, 17th International Multidisciplinary Scientific GeoConference SGEM 2017, [www.sgem.org](http://www.sgem.org), SGEM2017 Conference Proceedings, ISBN 978-619-7408-03-4 / ISSN 1314-2704, 29 June - 5 July, 2017, Vol. 17, Issue 23, 861-866 pp, DOI: 10.5593/sgem2017/23/S11.108.
  9. **Using Fit-for-purpose Methods for Collecting Data Regarding Changes in the Urban Environment**, coautori, Badea, A. C., Badea, G, A. Iliescu-Cremeneanu, 17th International Multidisciplinary Scientific GeoConference SGEM 2017, [www.sgem.org](http://www.sgem.org), SGEM2017 Conference Proceedings, ISBN 978-619-7408-03-4 / ISSN 1314-2704, 29 June - 5 July, 2017, Vol. 17, Issue 23, 837-844 pp, DOI: 10.5593/sgem2017/23/S11.105.
  10. **The Evolution of Transylvanian Ethnic Groups from 1869 to the Present as Reflected by Thematic Maps**, coautori A. Iliescu-Cremeneanu, Badea, A. C., Badea, G., 17th International Multidisciplinary Scientific GeoConference SGEM 2017, [www.sgem.org](http://www.sgem.org), SGEM2017 Conference Proceedings, ISBN 978-619-7408-03-4 / ISSN 1314-2704, 29 June - 5 July, 2017, Vol. 17, Issue 23, 703-710 pp, DOI: 10.5593/sgem2017/23/S11.088.
  11. **Proposals for Increasing the University Educational Performance at the Faculty of Geodesy**, Technical University of Civil Engineering Bucharest, coautori Badea, G., Didulescu, C., Badea, A.C., Savu, A., 17th International Multidisciplinary Scientific GeoConference SGEM 2017, [www.sgem.org](http://www.sgem.org), SGEM2017 Conference Proceedings, ISBN 978-619-7408-11-9 / ISSN 1314-2704, 29 June - 5 July, 2017, Vol. 17, Issue 54, 167-174 pp, DOI: 10.5593/sgem2017/54/S22.022.
  12. **BIM, GIS and Cadastre under the Current Challenges**, coautori A.C. Badea, G. Badea, A. Iliescu-Cremeneanu, D. Badea, 18th International Multidisciplinary Scientific GeoConference SGEM2018 Conference Proceedings, ISSN 1314-2704.
  13. **GIS and Remote Sensing for Urban Protected Green Areas**, coautori A. Iliescu-Cremeneanu, A.C. Badea, D. Badea, 18th International Multidisciplinary Scientific GeoConference SGEM2018 Conference Proceedings, ISSN 1314-2704.
  14. **Photogrammetric Methods for Digital Height Models**, coautori D. Badea, A.C. Badea, G. Badea, A. Iliescu-Cremeneanu, 18th International Multidisciplinary Scientific GeoConference SGEM2018 Conference Proceedings, ISSN 1314-2704.
  15. **Standards in Geospatial Information Management and Spatial Data Infrastructures**, coautori G. Badea, A.C. Badea, A. Iliescu-Cremeneanu, D. Badea, 18th International



- Multidisciplinary Scientific 18th International Multidisciplinary Scientific GeoConference SGEM2018 Conference Proceedings, ISSN 1314-2704.
16. **The Effects of Using Web Mercator Projection Instead of the Mercator Projection for Representing Romania on Maps**, coautori A.C. Badea, A. Iliescu-Cremeneanu, G. Badea, D. Badea, 18th International Multidisciplinary Scientific GeoConference SGEM2018 Conference Proceedings, ISSN 1314-2704.
  17. **How to Create an Effective Thematic Map**, Bulletin of University of Agricultural Sciences and Veterinary Medicine Cluj-Napoca. Horticulture, Vol. 76, No.2, 2019, <https://journals.usamvcluj.ro/index.php/horticulture/article/view/13479/0>, DOI: <http://dx.doi.org/10.15835/buasvmcn-hort:2019.0035>
  18. **Comparison between the 1970 Stereographic Projection and a Double-Stereographic Projection**, coautori Badea, A., Badea, G., 19th International Multidisciplinary Scientific GeoConference SGEM 2019, <https://www.sgem.org/index.php/elibrary-research-areas?view=publication&task=show&id=5556>, SGEM2019 Conference Proceedings, ISBN 978-619-7408-80-5, Vol. 19, Book no. 2.2, pp. 749-756, ISSN 1314-2704, DOI 10.5593/sgem2019/2.2/S11.092.
  19. **Blockchain, Property Registration and Cadastre**, coautori Badea, A., Badea, G., 19th International Multidisciplinary Scientific GeoConference SGEM 2019, <https://www.sgem.org/index.php/elibrary-research-areas?view=publication&task=show&id=5555>, SGEM2019 Conference Proceedings, ISBN 978-619-7408-80-5, Vol. 19, Book no. 2.2, pp. 741-748, ISSN 1314-2704, DOI 10.5593/sgem2019/2.2/S11.092.
  20. **The Analysis of Romania Cadastral Records Dynamics in GIS Using Open Data**, coautori Badea, A., Badea, G. 19th International Multidisciplinary Scientific GeoConference SGEM 2019, <https://www.sgem.org/index.php/elibrary-research-areas?view=publication&task=show&id=5552>, SGEM2019 Conference Proceedings, ISBN 978-619-7408-80-5, Vol. 19, Book no. 2.2, pp. 713-722, ISSN 1314-2704, DOI 10.5593/sgem2019/2.2/S11.092.
  21. **Maps Reflecting Population Displacement Caused by War**, Simpozionul Științific Internațional GeoCAD 2022, Alba Iulia, Journal of Geodesy and Cadastre RevCAD vol. 33/2022, Aeternitas Publishing House, pag. 77-84, [http://revcad.uab.ro/upload/54\\_849\\_vasilca.pdf](http://revcad.uab.ro/upload/54_849_vasilca.pdf).
  22. **Algorithm for the Transformation of the Coordinates Needed to Set Objectives Extending Over Large Areas**, coautor Oana- Mihaela Bîscoveanu, Proceedings of 24th International Multidisciplinary Scientific GeoConference SGEM 2024, 1314-2704, [https://www.epslibrary.at/sgem\\_jresearch\\_publication\\_view.php?page=view&editid1=9933](https://www.epslibrary.at/sgem_jresearch_publication_view.php?page=view&editid1=9933).
- D. Lucrări publicate în ultimii 10 anii în reviste și volume de conferințe cu referenți (neindexate)**
- Reviste**
1. **Using 3D laser scanning in the architectural field**, coautor M., Neagu, Journal of Geodesy, Cartography and Cadastre, No. 7, pp. 34-44, Bucharest, 2017, [https://jgcc.geoprevi.ro/docs/2017/7/jgcc\\_2017\\_no7.pdf#page=36](https://jgcc.geoprevi.ro/docs/2017/7/jgcc_2017_no7.pdf#page=36).



2. **Steps for identifying the projection of an old map**, 16th ICA Conference “Digital Approaches to Cartographic Heritage”, Cluj-Napoca 22-24 September 2022, Conference Proceedings, ISSN 2459-3893, pp. 192-205, <http://cartography.web.auth.gr/ICA-Heritage/Cluj-Napoca2022/>, e-perimetron, Vol. 18, No. 1, 2023, pp. 31-45, ISSN 1790-3769, [https://www.e-perimetron.org/Vol\\_18\\_1/Vasilca.pdf](https://www.e-perimetron.org/Vol_18_1/Vasilca.pdf).
3. **The Influence of the Projection Plane Altitude on the Distortions in Oblique Double Conical Map Projections**, RevCAD Journal of Geodesy and Cadastre, vol 37/2024, Aeternitas Publishing House, pp. 157-164, ISSN print 2068-5203, [http://revcad.uab.ro/upload/58\\_951\\_18\\_vasilca.pdf](http://revcad.uab.ro/upload/58_951_18_vasilca.pdf).
4. **Analysis of Different Map Georeferencing Methods**, coautor Alexandru Toacă, RevCAD Journal of Geodesy and Cadastre, vol 37/2024, Aeternitas Publishing House, pp. 149-157, ISSN print 2068-5203, [http://revcad.uab.ro/upload/58\\_950\\_17\\_toaca\\_vasilca.pdf](http://revcad.uab.ro/upload/58_950_17_toaca_vasilca.pdf).

**- Selecție cu maximum 20 lucrări în volume de conferințe**

1.

**E. Brevete obținute în întreaga activitate**

1.

**Data:** *Ianuarie 2025*

**Semnătura:**



E – Brevete (pentru întreaga activitate)