

LISTA DE LUCRĂRI ȘTIINȚIFICE

Articole/studii publicate:

- [1] **Teza de doctorat: Contribuții la prelucrarea, analiza și reprezentarea datelor geodezice**, Universitatea Tehnică de Construcții București, Ordinul Ministrului Educației Naționale nr. 5581 MD din 03.12.2013.

[2] **Cărți publicate, îndrumare/culegeri publicate**

2.1 Cărți publicate:

- B1. **„Estimarea parametrilor și metode de analiză statistică a datelor geodezice”, Nistor Sorin**, Editura Universității din Oradea, ISBN 978-606-10-1420-0, 2014,
- B2. **„Statistica robustă aplicată în analiza datelor geodezice”, Nistor Sorin**, Buda Aurelian Stelian, Editura Universității din Oradea, ISBN 978-606-10-1907-6, 2017,
- B3. **„Măsurarea și monitorizarea topo-geodezică a lucrărilor edilitare”** Buda Aurelian Stelian, Suba Norbert Szabolcs, **Nistor Sorin**, Editura Universității din Oradea, ISBN 978-606-10-1907-6, 2017
- B4. **„Modelarea tridimensională în ingineria geodezică”** Suba Norbert-Szabolcs, **NISTOR Sorin**, Buda Aurelian Stelian, Editura Universității din Oradea, ISBN 978-606-10-2106-2, 2020

2.2 Manuale, suport de curs:

- C 1. **„Compensarea datelor geodezice și analiza statistică: note de curs”, Nistor Sorin** Editura Universității din Oradea, ISBN 978-606-10-1421-7, 2014
- C 2. **„Compensarea datelor geodezice și analiză statistică – Îndrumător de laborator”, Nistor Sorin**, Editura Universității din Oradea, ISBN 978-606-10-1906-9, pe CD, 2017
- C 3. **„Tehnologii geodezice spațiale – I - note de curs”, Nistor Sorin**, Editura Universității din Oradea ISBN 978-606-10-2108-6, pe CD, 2020
- C 4. **„Tehnologii geodezice spațiale – I - îndrumător de laborator”, Nistor Sorin**, Editura Universității din Oradea, pe CD, ISBN 978-606-10-2107-9, 2020

Link documente – B1-B4, și C1-C4:

<https://www.google.com/url?sa=t&rct=j&q=&esrc=s&source=web&cd=&ved=2ahUKEwis7JyarvvvAhVM2SoKHf0fBKAQFjABegQIAh4E&url=https%3A%2F%2Fwww.uoradea.ro%2Fdl22370&usg=AOvVaw1vas3kSuvThlQ2rKVKXgSh>

[3] Articole indexate în reviste (Jurnale) ISI WEB OF SCIENCE cu factor de impact

- 1) **Sorin Nistor**, Norbert Szabolcs Suba, Aurelian Stelian Buda, "*The impact of tropospheric mapping function on PPP determination for one-month period*", Acta Geodynamica et Geomaterialia, Vol. 17, No. 2 (198), pp. 237-252, DOI: 10.13168/AGG.2020.0018, 2020
Link: https://www.irms.cas.cz/materialy/acta_content/2020_doi/Nistor_AGG_2020_0018.pdf
- 2) E.I. Nastase1, A. Muntean, **S. NISTOR**, B. Grecu1, D. Tataru „*GPS processing tools for better impact assessment of earthquakes in Romania*” Romanian Reports in Physics 72, 707, 2020
Link: <http://rrp.infim.ro/2020/AN72707.pdf>
- 3) **Sorin Nistor**, Aurelian Stelian Buda, "*Evaluation of the ambiguity resolution and data products from different analysis centers on zenith wet delay using PPP method* ", Acta Geodynamica et Geomaterialia, Vol. 14, No. 2 (186), 205–220, 2017
Link: https://www.irms.cas.cz/materialy/acta_content/2017_doi/Nistor_AGG_2017_0004.pdf
- 4) **Sorin Nistor**, Aurelian Stelian Buda, "*High rate 30 seconds vs clock interpolation in precise point positioning (PPP)*", Geodetski vestnik / Journal of Geodetic Engineering , Vol. 60, no. 3, 2016
Link: https://www.researchgate.net/publication/309401973_High_rate_30_seconds_vs_clock_interpolation_in_Precise_Point_Positioning_PPP
- 5) **Sorin Nistor**, Aurelian Stelian Buda, "*The influence of different types of noise on the velocity uncertainties in GPS time series analysis*", Acta Geodynamica et Geomaterialia , Vol. 13, No. 4 (184), 387–394, 2016
Link: https://www.irms.cas.cz/materialy/acta_content/2016_doi/Nistor_AGG_2016_0021.pdf
- 6) **Sorin Nistor**, Aurelian Stelian Buda, "*GPS network noise analysis: a case study of data collected over an 18-month period*" JOURNAL OF SPATIAL SCIENCE , Volume 61, Issue 2, 2016
Link: <https://www.tandfonline.com/doi/abs/10.1080/14498596.2016.1138900?journalCode=tjss20>

[4] indexate în volumele unor conferințe indexate în ISI WEB OF SCIENCE (ISI PROCEEDINGS)

- 1) **Sorin Nistor**, Norbert Szabolcs Suba, Aurelian Stelian Buda, "*Determining the precipitable water vapor using multiple satellite constellations: GPS, GALILEO and*

BEIDOU", 18th International Technical-Scientific Conference on Modern Technologies for the 3rd Millennium

Link: <https://cloud.uoradea.ro/index.php/s/ARDn5PeSxsoC6qD#pdfviewer>

- 2) **Sorin Nistor**, Norbert Szabolcs Suba, Aurelian Stelian Buda, "*Albedo Effect on GPS Point Determination*" 17th National Technical-Scientific Conference on Modern Technologies for the 3rd Millennium, ISBN: 978-88-87729-41-2, 2018

Link: <https://cloud.uoradea.ro/index.php/s/swTp3We9kfKSzBn#pdfviewer>

- 3) Norbert Szabolcs Suba, **Sorin Nistor**, Stefan Suba, "*Comparison of different interpolation methods for volume calculations in medium sized polders*" 17th National Technical-Scientific Conference on Modern Technologies for the 3rd Millennium, ISBN: 978-88-87729-41-2, 2018

Link: <https://cloud.uoradea.ro/index.php/s/swTp3We9kfKSzBn#pdfviewer>

- 4) **Sorin Nistor**, Aurelian Stelian Buda, "*Umbra and Penumbra Impact on GPS Positioning*" 16th National Technical-Scientific Conference on Modern Technologies for the 3rd Millennium, ISBN: 978-88-87729-41-2, 2017

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- 5) **Sorin Nistor**, Aurelian Stelian Buda, "*Estimation of Precipitable Water Vapor in the West part of Romania Using GPS Technology: a study case*" 15th National Technical-Scientific Conference on Modern Technologies for the 3rd Millennium, ISBN: 978-88-7587-724-8, 2015

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- 6) **Sorin Nistor**, Aurelian Stelian Buda, "*Identifying the Noise in GPS Coordinate Time Series for Geodynamics Application: a case study*", 15th National Technical-Scientific Conference on Modern Technologies for the 3rd Millennium, ISBN: 978-88-7587-724-8, 2015

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[5] indexate în baze de date internaționale recunoscute (BDI)

- 1) Herman G.V., Cacioara T., Ilies Dorina Camelia, Ilies A., Deac Anca, Sturza Amalia, Sonko S.M., Suba N.S., **Nistor S.**, "3D Modeling of the Cultural Heritage: Between Opportunity and Necessity", Journal of Applied Engineering Sciences, ISSN: 2247-3769 / e-ISSN: 2284-7197, DOI: 10.2478/jaes-2020-0005, 2020

Link: <https://sciendo.com/article/10.2478/jaes-2020-0005>

- 2) Blaga, L., Josan, I., Herman, G.V., Grama, V., **Nistor, S.** and Suba, N.S. „Assessment of the Forest Health Through Remote Sensing Techniques in Valea Roșie Natura 2000 Site, Bihor County, Romania,” Journal of Applied Engineering Sciences, <https://doi.org/10.2478/jaes-2019-0029>

Link: <https://www.sciendo.com/article/10.2478/jaes-2019-0029>

- 3) Marek Banaś, **Sorin Nistor**, „Robust estimation for detection of flatness defects”, Geographic Information Systems Conference and Exhibition “GIS ODYSSEY 2018” Italy 10th to 14th of September 2018, Perugia, Italy, ISSN 2459-7619 (Print)
Link: http://www.gis.us.edu.pl/index.php?option=com_mtree&task=att_download&link_id=850&cf_id=24
- 4) Norbert Szabolcs Suba, **Sorin Nistor**, Stefan Suba, "Effects of DEM Generating Algorithms on Water Retention Calculations in Polders – A Case Study " Journal of Applied Engineering Sciences ISSN 2247- 3769, 2017
Link: <https://sciendo.com/article/10.1515/jaes-2017-0015>
- 5) **Sorin Nistor**, Aurelian Stelian Buda, "The Influence of Zenith Tropospheric Delay on PPP-RTK" Journal of Applied Engineering Sciences ISSN 2247- 3769, 2016
Link: <https://sciendo.com/article/10.1515/jaes-2016-0010>
- 6) **Sorin Nistor**, Aurelian Stelian Buda "Determination of Zenith Tropospheric Delay and Precipitable Water Vapor using GPS Technology" Mathematical Modelling in Civil Engineering, Vol.12-No.1:21-26, ISSN 2066-6934, 2016
Link: <https://sciendo.com/article/10.1515/mmce-2016-0007>
- 7) **Sorin Nistor**, Aurelian Stelian Buda "Modelling the noise in GPS coordinate time series" RevCAD, Journal of Geodesy and Cadastre, ISSN 1583-2279
Link: http://revcad.uab.ro/upload/38_475_03_Nistor_S.pdf
- 8) **Sorin Nistor**, Aurelian Stelian Buda, Norbert-Szabolcs Suba, Gabriela Cimpan "GNSS analysis for geodynamics application" Journal of Geodesy, Cartography and Cadastre, No. 2, ISSN 1454-1408, 2015
Link: https://www.jgcc.geoprevi.ro/docs/2015/2/jgcc_2015_no2_2.pdf
- 9) **Sorin Nistor**, Aurelian Stelian Buda "Analysis of GNSS Data Using Precise Point Positioning Technique for the Determination of Permanent Station in Romania" Mathematical Modelling in Civil Engineering, volume 11, No. 3, ISSN 2066-6934, 2015
Link: http://mmce.rs.utcb.ro/images/doc/2015/modelling_nr3_2015.pdf
- 10) **Sorin Nistor**, Aurelian Stelian Buda "Using different mapping function in GPS processing for remote sensing the atmosphere" Journal of Applied Engineering Sciences ISSN 2247- 3769, 2015
Link: <https://www.sciendo.com/article/10.1515/jaes-2015-0024>
- 11) **Sorin Nistor**, Aurelian Stelian Buda "Scheduling And Simulation Of VLBI Measurements For The Determination Of Earth Orientation Parameters" Journal of Applied Engineering Sciences ISSN 2247- 3769, 2015
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- 12) **Sorin Nistor**, Aurelian Stelian Buda "Ambiguity resolution in precise point positioning technique: a case study" Journal of Applied Engineering Sciences ISSN 2247- 3769, 2015
Link: <https://www.sciendo.com/article/10.1515/jaes-2015-0007>
- 13) **Sorin Nistor**, Aurelian Stelian Buda "Time series analysis in the presence of coloured noise" Journal of Applied Engineering Sciences ISSN 2247- 3769, 2014
Link: <https://cloud.uoradea.ro/index.php/s/dMCKzAxdxoWLG82#pdfviewer>
- 14) **Sorin Nistor**, Aurelian Stelian Buda "Robust alternativ concerning the arithmetic mean and dispersion" Journal of Applied Engineering Sciences ISSN 2247- 3769, 2014
Link: <https://cloud.uoradea.ro/index.php/s/jZ7oEEjgSkEy6CZ#pdfviewer>
- 15) **Sorin Nistor**, Aurelian Stelian Buda "Velocity component analysis on a GNSS network" Revista de Cadastru REVCAD, ISSN 1583-2279, 2014
Link: http://revcad.uab.ro/upload/36_434_Paper7_RevCAD17_2014.pdf
- 16) **Sorin Nistor**, Aurelian Stelian Buda, "Large Industrial Scanning" Revista de Cadastru REVCAD, ISSN 1583-2279, 2013
Link: http://revcad.uab.ro/upload/34_372_Paper24_RevCAD15_2013.pdf
- 17) **Sorin Nistor**, Ionaşcu Anamaria," Basic concept of the robust procedure applied on geodetic data" Journal of Applied Engineering Sciences, ISSN 2247- 3769, 2013
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- 18) **Sorin NISTOR**, BUDA Aurelian Stelian, "Relative positioning versus Precise Point Positioning" Revista de Cadastru REVCAD, ISSN 1583-2279, 2012
Link: http://revcad.uab.ro/upload/21_77_Paper40_RevCAD12_2012.pdf
- 19) Suba Ştefan, Buda Aurelian Stelian, Joca Andreea Florina, Dumitru Paul Daniel, Suba Norbert-Szabolcs, **Nistor Sorin** – "Stability of data flow using 3.5G internet for GPS applications", Journal of Applied Engineering Science, vol 1 (14), issue 2/2011, pg. 51-58, ISSN 1454-4067, 2011
Link: <https://cloud.uoradea.ro/index.php/s/LPPPGqgmEmwsQYr#pdfviewer>
- 20) **Sorin Nistor**, Norbert-Szabolcs Suba, Ancuţa Simion, "Monuments restoration using 2D mapping from 3D scanned models", Mathematical Modelling in Civil Engineering, volume 7, No. 1-2, ISSN 2066-6934, 2011
Link: http://mmce.rs.utcb.ro/images/doc/2011/modelling_nrl-2_2011.pdf
- 21) **Sorin Nistor**, Norbert-Szabolcs Suba, "Laser scanning - Application in industrial environment" Journal of Applied Engineering Science, ISSN 1454-4067, 2010
Link: <https://cloud.uoradea.ro/index.php/s/ZSNbHXcAEdod6Z2#pdfviewer>

- 22) Stefan Suba, **Sorin Nistor**, Andreea Florin Jocea "The Analyze of the Transmission Possibilities of Differential Data Corrections in the Given Radio Infrastructure Context" Revista de Cadastru REVCAD, ISSN 1583-2279, 2010
Link: http://revcad.uab.ro/upload/19_129_Paper23_RevCAD10_2010.pdf
- 23) Aurelian Stelian Buda, **Sorin Nistor**, Norbert-Szabolcs Suba, "Flood simulation using 3D models" Journal of Applied Engineering Science, ISSN 1454-4067, 2010
Link: <https://cloud.uoradea.ro/index.php/s/Ce3jNXK2cFeXZ6E#pdfviewer>
- 24) JOCEA Andreea Florina, DUMITRU Paul Daniel, **Sorin NISTOR**, BUDA Aurelian Stelian, "Rompos application in gnss machine control case" Journal of Applied Engineering Science, ISSN 1454-4067, 2010
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[6] în alte reviste de specialitate de circulație internațională

- 1) Droj, Gabriela, Suba, Stefan, **Nistor Sorin**, Suba Norbert – "*Role of Data Quality in GIS Decision Support Tools*" - Szekesfehervar, GIS OPEN 2009
Link: http://w20.gisopen.hu/archiv/2009/eloadasok/ppt/CS15_Droj_Suba_Nistor.pdf
- 2) Jocea, Andreea, Suba Ștefan, **Nistor Sorin** – "*Retransmission systems of differential corrections for GNSS*" "Szekesfehervar, GIS OPEN 2010
Link: <http://w20.gisopen.hu/archiv/2010/eloadasok/pdf/suba.pdf>
- 3) Andreea Florina Jocea, Aurelian Stelian Buda, Ștefan Suba, **Sorin Nistor**, Norbert Szabolcs Suba, Paul Daniel Dumitru, „*Retransmission of differential data corrections concept applied on Machine Control*” Machine Control & Guidance 27th - 29th March, 2012 Stuttgart, Germany, ISBN 978-3-00-037295-7
Link: https://www.iigs.uni-stuttgart.de/forschung/mcg2012/proceedings_mcg2012.pdf

[7] în alte reviste de specialitate de circulație națională cu (ISBN, ISSN)

- 1) Suba Norbert, Suba, Stefan, **Nistor Sorin**, Buda Aurelian. – "*APPLICATION OF SCANNING TECHNIQUES IN THE CREATION OF THREE DIMENSIONAL MODELS*" "ANALELE UNIVERSITĂȚII DIN ORADEA - FASCICULA DE CONSTRUCȚII ȘI INSTALAȚII HIDROEDILITARE, ISSN 1454 – 4067, noiembrie 2009
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