

Absolute dynamic topography through synergizing sea level data sources utilizing a common and stable reference surface

Jahanmard, Vahidreza; Delpeche-Ellmann, Nicole Camille; Ellmann, Artu XXVIII General Assembly of the International Union of Geodesy and Geophysics (IUGG) 2023 <https://doi.org/10.57757/IUGG23-1756>

Accuracy assessment of RTK-GNSS equipped UAV conducted as-built surveys for construction site modelling

Varbla, Sander; Puust, Raido; Ellmann, Artu Survey review 2021 / p. 477-492 <https://doi.org/10.1080/00396265.2020.1830544>
[Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Accurate dynamic topography by satellite altimetry and marine geoid model

Mostafavi, Majid; Delpeche-Ellmann, Nicole Camille; Ellmann, Artu 13th Coastal Altimetry Workshop & Coastal Altimetry Training, 6-10 February 2023, Universidad de Cádiz, Spain : abstract 2023 / p. 36
<https://www.coastalaltimetry.org/NikalWebsitePortal/coastal-altimetry-workshop/esa/ExtraContent/ContentSubPage?page=8&subPage=3>

Accurate sea surface heights from Sentinel-3A and Jason-3 retracers by incorporating high-resolution marine geoid and hydrodynamic models

Mostafavi, Majid; Delpeche-Ellmann, Nicole Camille; Ellmann, Artu Journal of geodetic science 2021 / p. 58-74
<https://doi.org/10.1515/jogs-2020-0120> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Adapting a regional geoid model to national geodetic infrastructure and conventions [Online resource]

Oja, Tõnis; Märdla, Silja; Ellmann, Artu; Rüdja, Andres 1st Joint Commission 2 and IGFS Meeting International Symposium on Gravity, Geoid and Height Systems 2016 : September 19-23, 2016, Thessaloniki, Greece : program 2016 / [2] p
<http://gghs2016.com/search/?entry=958>

Advancements in underground mine surveys by using SLAM-enabled handheld laser scanners

Ellmann, Artu; Kütimets, Kaia; Varbla, Sander; Väli, Erik; Kanter, Sander Survey review 2022 / p. 363-374
<https://doi.org/10.1080/00396265.2021.1944545> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Aerogravimõõtmised ja geoidi arvutustööd Taiwanis

Ellmann, Artu Geodeet 2006 / lk. 23-27 : ill

Aerolaserskaneerimise andmetest maapinna tuvastamine erinevate filtreerimisalgoritmidega

Julge, Kalev; Gruno, Anti; Ellmann, Artu Geodeet 2013 / lk. 32-36 : ill

Airborne laser scanning derived sea surface height datasets in the Gulf of Finland (10.05.2018)

Varbla, Sander; Ellmann, Artu; Delpeche-Ellmann, Nicole Camille SEANOE 2020 <https://doi.org/10.17882/76491>

Airborne laser scanning determination of sea surface heights [Electronic resource]

Ellmann, Artu; Julge, Kalev; Gruno, Anti; Liibus, Aive 26th IUGG General Assembly 2015 : Prague, Czech Republic, Prague Congress Centre, June 22-July 02, 2015 2015 / [1] p

Airborne laser scanning validation of marine geoid models [Online resource]

Ellmann, Artu; Julge, Kalev; Gruno, Anti; Liibus, Aive 1st Joint Commission 2 and IGFS Meeting International Symposium on Gravity, Geoid and Height Systems 2016 : September 19-23, 2016, Thessaloniki, Greece : program 2016 / [1] p
<http://gghs2016.com/presentation-info/?presentation=728>

Aive Liibus kaitses filosoofiadoktori kraadi geodeesia erialal

Jürgenson, Harli; Ellmann, Artu Geodeet 2013 / lk. 92-93 : fot

Along-track satellite altimetry to identify coastal sea level dynamics using a synergized geodetic-oceanographic approach = Satelliitaltimeetria pikiorbiitse andmestikuga rannikumere veetaseme dünaamika tuvastamine kasutades sünergilist geodeetilis-okeanograafilist meetodit

Mostafavi, Majid 2024 https://www.ester.ee/record=b5671644*est <https://doi.org/10.23658/taltech.11/2024>
<https://digikogu.taltech.ee/et/Item/49eaa519-adfc-42a0-98dd-a69ba649331a>

An attempt for an Amazon geoid model using Helmert gravity anomaly

Blitzkow, D.; Matos, A.C.O.C.de; Campos, I.O.; Ellmann, Artu; Vanicek, P.; Santos, M.C. Observing our changing Earth : proceedings of the 2007 IAG General Assembly : Perugia, Italy, July 2-13, 2007 2009 / p. 187-194 : ill

Application of deep conditional generative adversarial networks to fill the gaps of satellite altimetry-based absolute dynamic topography

Jahanmard, Vahidreza; Delpeche-Ellmann, Nicole Camille; Ellmann, Artu XXVIII General Assembly of the International Union of Geodesy and Geophysics (IUGG) 2023 <https://doi.org/10.57757/IUGG23-1627>

Application of terrestrial laser scanning technology for engineering structure surveys = Terrestriine laserskaneerimine ehituskonstruksioonide mõõdistamisel

Mill, Tarvo 2017 <https://digi.lib.ttu.ee/i/?9118>

Applications of airborne laser scanning for determining marine geoid and surface waves properties

Varbla, Sander; Ellmann, Artu; Delpeche-Ellmann, Nicole Camille European journal of remote sensing 2021 / p. 558–568
<https://doi.org/10.1080/22797254.2021.1981156> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Applying machine learning with satellite altimetry data for prediction of absolute dynamic topography for the Baltic Sea

Mostafavi, Majid; Delpeche-Ellmann, Nicole Camille; Ellmann, Artu Nordic Geodetic Commission General Assembly 2022 in Copenhagen : Poster Session 2022 / 26 I. <https://medialib.cmcdn.dk/medialibrary/010C1367-E991-4A33-AB10-1953247E9C23/530AEABD-3A25-ED11-84B6-00155D0B0940.pdf>

Arne Randlepp 70

Kala, Vello; Ellmann, Artu Geodeet 2011 / lk. 118-119 : portr

Arne Randlepp 80

Ellmann, Artu; Kala, Vello Geodeet 2022 / lk. 84-85 : fot http://www.ester.ee/record=b1072198*est

Assessment of along-normal uncertainties for application to terrestrial laser scanning surveys of engineering structures

Mill, Tarvo; Ellmann, Artu Survey review 2019 / p. 1-16 : ill <https://doi.org/10.1080/00396265.2017.1361565> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Assessment of hydrodynamic model sea level performance through Geoid-Referenced Tide-Gauge and Satellite Altimetry : poster

Jahanmard, Vahidreza; Delpeche-Ellmann, Nicole Camille; Ellmann, Artu Living Planet Symposium : Bonn, 23-27 May 2022 2022 / 1 p https://express.converia.de/frontend/index.php?page_id=22633&additions_conferenceschedule_action=detail&additions_conferenceschedule_controller=paperList&pid=67257&hash=059b7410747f987290de47d36b5b6df4330fe4bcc6b23cd94277df52d3471105

Assessment of marine geoid models by shipborne GNSS and airborne laser scanning profiles

Varbla, Sander; Ellmann, Artu [EUREF2019 abstracts] 2019 / p. [59] <https://www.maaamet.ee/euref2019/EUREF2019-Abstracts.pdf>

Assessment of marine geoid models by ship-borne GNSS profiles

Varbla, Sander; Ellmann, Artu; Märdla, Silja; Gruno, Anti Geodesy and cartography 2017 / p. 41-49 : ill <https://doi.org/10.3846/20296991.2017.1330771>

Assessment of marine geoid models by ship-borne GNSS profiles in the Gulf of Finland ; S3-P21

Varbla, Sander; Ellmann, Artu; Gruno, Anti International Symposium Gravity, Geoid and Height Systems 2 : GGHS2018 : "Gravity Field Of The Earth" : The 2nd joint meeting of the International Gravity Field Service and Commission 2 of the International Association of Geodesy, Copenhagen, Denmark, Sept. 17-21, 2018 : abstract book 2018 / p. 81

Astanguliste pinnavormide mõjust Maa raskuskiirenduse väljale Põhja-Eesti klintranniku näitel

Talvik, Silja; Ellmann, Artu; Oja, Tõnis Geodeet 2012 / lk. 10-18 : ill

Balti riikide ja Šveitsi geodeesiakonverents Tallinnas [TTÜ geodeesia õppetooli korraldamisel]

Ellmann, Artu Geodeet 2008 / lk. 65-66 : fot

Calibration results of different type spring gravimeters from the repeated measurements of Estonian calibration lines

Oja, Tõnis; Nikolenko, T.; Türk, K.; Ellmann, Artu; Jürgenson, Harli Geophysical research abstracts 2010 / p. EGU2010-13590 https://www.nordicgeodeticcommission.com/wp-content/uploads/2014/10/NKG2010_Calibration-Estonia_TOja.pdf

Centimetre-range deformations of built environment revealed by drone-based photogrammetry

Varbla, Sander; Ellmann, Artu; Puust, Raido Automation in Construction 2021 / art. 103787 <https://doi.org/10.1016/j.autcon.2021.103787> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Challenges and solutions in construction of Tallinn-Tartu highway over peat deposits

Dettenborn, Taavi; Forsman, Juha; Skepast, Peeter; Ellmann, Artu [The 29th Baltic Road Conference : 27-30 August 2017 Tallinn] 2017 / 10 p. : ill [Challenges and solutions...](#)

Coastal sea level trend using multi mission along track satellite altimetry for the Baltic Sea

Mostafavi, Majid; Delpeche-Ellmann, Nicole Camille; Ellmann, Artu XXVIII General Assembly of the International Union of Geodesy and Geophysics (IUGG) 2023 <https://doi.org/10.57757/IUGG23-4967>

Combined laser scanning to monitor coastal processes

Eelsalu, Maris; Julge, Kalev; Grünthal, Erko; Märdla, Silja; Ellmann, Artu; Soomere, Tarmo; Tõnisson, Hannes MEME'2014 : Mathematics and Engineering in Marine and Earth Problems : 22-25 July 2014, Aveiro, Portugal : book of abstracts 2014 / p. 106-108 : ill

Combining Airborne and Terrestrial Laser Scanning technologies for measuring complex structures

Julge, Kalev; Ellmann, Artu The 9th International Conference "Environmental Engineering" : 22-23 May 2014, Vilnius, Lithuania : selected papers 2014 / p. 1-7 : ill

Combining airborne and terrestrial laser scanning to monitor coastal processes

Julge, Kalev; Eelsalu, Maris; Grünthal, Erko; Märdla, Silja; Ellmann, Artu; Soomere, Tarmo; Tõnisson, Hannes 2014 IEEE/OES Baltic International Symposium : 26-29 May 2014, Tallinn, Estonia : [proceedings] 2014 / [10] p. : ill

Combining airborne and terrestrial laser scanning to monitor coastal processes

Julge, Kalev; Eelsalu, Maris; Grünthal, Erko; Märdla, Silja; Ellmann, Artu; Tõnisson, Hannes Measuring and Modeling of Multi-Scale Interactions in the Marine Environment : IEEE/OES Baltic Symposium 2014, May 26.-29.2014, Tallinn, Estonia : book of abstracts 2014 / p. 49

Combining different modification methods of the Stokes formula [Electronic resource]

Ellmann, Artu Geophysical research abstracts 2010 / p. EGU2010-12420 [CD-ROM]

Comparison of dynamic topography bias in HIROMB and NEMO-Nordic model by utilizing marine geoid

Jahanmard, Vahidreza; Delpeche-Ellmann, Nicole Camille; Ellmann, Artu Geophysical research abstracts 2020 / p. EGU2020-20134 <https://doi.org/10.5194/egusphere-egu2020-20134>

Comparison of least squares modifications of Stokes's and Hotine's formula using pointwise and gridded gravity data ; S3-P16

Sakil, Fatima Feyza; Erol, Serdar; Isik, M. Serkan; Erol, Bihter; Ellmann, Artu International Symposium Gravity, Geoid and Height Systems 2 : GGHS2018 : "Gravity Field Of The Earth" : The 2nd joint meeting of the International Gravity Field Service and Commission 2 of the International Association of Geodesy, Copenhagen, Denmark, Sept. 17-21, 2018 : abstract book 2018 / p. 75

Comparison of methods applied for Marine Geoid Modelling in the Baltic Sea project FAMOS

Agren, Jonas; Schwabe, Joachim; Saari, T.; Ellmann, Artu; Forsberg, R. IUGG 2019 : abstract book 2019 / [1] p., abstract: IUGG19-2965 <http://iugg2019montreal.com/abstract-book.html>

Considerations on the further improvements of regional geoid modeling over the Baltic countries

Ellmann, Artu Geodezija ir kartografija = Geodesy and cartography 2010 / 1, p. 5-15 : ill

Correcting tide gauge series due to land uplift and differences between national height systems of the Baltic Sea countries

Liibus, Aive; Kall, Tarmo; Ellmann, Artu; Kõuts, Tarmo 2014 IEEE/OES Baltic International Symposium : 26-29 May 2014, Tallinn, Estonia : [proceedings] 2014 / [8] p. : ill

Correcting tide gauge series due to land uplift and differences between national height systems of the Baltic Sea countries

Liibus, Aive; Kall, Tarmo; Ellmann, Artu; Kõuts, Tarmo Measuring and Modeling of Multi-Scale Interactions in the Marine Environment : IEEE/OES Baltic Symposium 2014, May 26.-29.2014, Tallinn, Estonia : book of abstracts 2014 / p. 74

A data-fusion technique for forecasting of absolute sea levels in the Baltic Sea

Rajabi-Kiasari, Saeed; Delpeche-Ellmann, Nicole Camille; Ellmann, Artu 2023 Machine Learning And Data Analysis In Oceanography, University of Liège, Belgium 2023 [A data-fusion technique for forecasting of absolute sea levels in the Baltic Sea](#)

Deeper insights into the validation of hydrodynamic models using a synergy of remote sensing data

Delpeche-Ellmann, Nicole Camille; Varbla, Sander; Jahanmard, Vahidreza; Ellmann, Artu Baltic Earth Workshop Climate projections and uncertainties in the northern Baltic Sea region, Helsinki, Finland, 19-20 November, 2019 : Programme, Abstracts, Participants 2019 / p. 14-15

Determination of Accurate Dynamic Topography for the Baltic Sea Using Satellite Altimetry and a Marine Geoid Model

Mostafavi, Majid; Delpeche-Ellmann, Nicole Camille; Ellmann, Artu; Jahanmard, Vahidreza Remote sensing 2023 / art. 2189 <https://doi.org/10.3390/rs15082189>

Determining ranges and spatial distribution of road frost heave by terrestrial laser scanning

Mill, Tarvo; Ellmann, Artu; Aavik, Andrus; Horemuz, Milan; Sillamäe, Sven The Baltic journal of road and bridge engineering 2014 / p. 225-234 : ill

Determining regional sea surface topography by GNSS surveys on ice

Liibus, Aive; Märdla, Silja; Ellmann, Artu; Oja, Tõnis Measuring and Modeling of Multi-Scale Interactions in the Marine Environment : IEEE/OES Baltic Symposium 2014, May 26.-29.2014, Tallinn, Estonia : book of abstracts 2014 / p. 75

Determining regional sea surface topography by GNSS surveys on ice

Liibusk, Aive; **Märdla, Silja; Ellmann, Artu**; Oja, Tõnis 2014 IEEE/OES Baltic International Symposium : 26-29 May 2014, Tallinn, Estonia : [proceedings] 2014 / [9] p. : ill

Determining sea surface heights using small footprint airborne laser scanning

Gruno, Anti; Liibusk, Aive; **Ellmann, Artu** Remote Sensing of the Ocean, Sea Ice, Coastal Waters, and Large Water Regions 2013 : 24 September 2013, Dresden, Germany 2013 / p. 88880R-1-88880R-13 : ill

Determining the Accuracy of Sentinel-3A and Sentinel-6 Satellite Altimetry Data in the Gulf of Finland using a synergy of data : [poster presentation]

Heinoja, Lenne-Liisa; Delpeche-Ellmann, Nicole Camille; Ellmann, Artu The Gulf of Finland Science Days 2021 "New start for the Gulf of Finland co-operation" : Estonian Academy of Sciences, Tallinn, 29-30 November 2021 : abstracts 2021 / p. 45
<https://www.gulfoffinland.fi>

Deterministic and stochastic modifications of the Stokes formula

Ellmann, Artu Geophysical research abstracts 2009 / p. EGU2009-9274-1 [CD-ROM]
<https://meetingorganizer.copernicus.org/EGU2009/EGU2009-9274-1.pdf>

Development of a 5 mm geoid model – a case study for Estonia

Ellmann, Artu; Oja, Tõnis International Symposium Gravity, Geoid and Height Systems 2 : GGHS2018 : "Gravity Field Of The Earth" : The 2nd joint meeting of the International Gravity Field Service and Commission 2 of the International Association of Geodesy, Copenhagen, Denmark, Sept. 17-21, 2018 : abstract book 2018 / p. 51 <https://www.space.dtu.dk/english/gghs2018/programme>

Development of continuous dynamic vertical reference for maritime and offshore engineering by applying machine learning strategies

Delpeche-Ellmann, Nicole Camille; Ellmann, Artu 2023 Machine Learning And Data Analysis In Oceanography, University of Liège, Belgium 2023 / 1 p [Development of continuous dynamic vertical reference for maritime and offshore engineering by applying machine learning strategies](#)

Development of synergized method to determine accurate sea level using satellite altimetry and high-resolution geoid model

Jahanmard, Vahidreza; Delpeche-Ellmann, Nicole Camille; Ellmann, Artu Geodesy for a Sustainable Earth, Scientific Assembly of the International Association of Geodesy : abstract book 2021 / S5-053 https://mm.sciconf.cn/en/minisite/poster-detail-new/1646?poster_id=1563486 https://files.sciconf.cn/upload/file/20210626/20210626085039_69146.pdf

Developments towards deriving realistic dynamic topography by synergizing high-resolution geoid with sea level data = Merepinna realistliku dünaamilise topograafia saavutamine täppisgeoidi ja meretaseme andmestike kooskasutamisel

Jahanmard, Vahidreza 2024 https://www.ester.ee/record=b5649955*est <https://digikogu.taltech.ee/et/Item/3cfc4a1d-ff3c-4366-b26b-86571453f628> <https://doi.org/10.23658/taltech.3/2024>

Donward continuation of airborne gravity data [Electronic resource]

Ellmann, Artu Geophysical research abstracts 2010 / p. EGU2010-9449 [CD-ROM]

Downward continuation of airborne gravity data using high-resolution global geopotential models

Ellmann, Artu The 8th International Conference Environmental Engineering : May 19-20, 2011, Vilnius, Lithuania : selected papers. Volume III 2011 / p. 1315-1320 : ill

Eesti geodeedid Rahvusvahelise Geodeesia ja Geofüüsika Liidu (IUGG) XXVI peaassambleel Prahas

Ellmann, Artu; Oja, Tõnis; Liibusk, Aive Geodeet 2016 / lk. 83-84 : fot http://www.ester.ee/record=b1072198*est

Eesti geodeedid rahvusvahelises teaduses

Varbla, Sander; Ellmann, Artu Geodeet 2019 / lk. 56-58 : fot http://www.ester.ee/record=b1072198*est

Eesti geodeetide osalemine Rahvusvahelise Geodeesia Assotsiatsiooni töös 2006. aastal

Ellmann, Artu Geodeet 2007 / lk. 6-7 : ill

Eesti geodeetide panus Rahvusvahelise Geodeesia Assotsiatsiooni (IAG) 2007. a tegemistesse

Ellmann, Artu Geodeet 2008 / lk. 3-4 : ill

Eesti on Euroopa Ruumiandmete Rakendusuuringute Ühingu EuroSDR liige

Tiits, Tambet; **Ellmann, Artu** Geodeet 2020 / lk. 19-25 : fot http://www.ester.ee/record=b1072198*est

Eesti, Läti ja Leedu võeti Põhjamaade Geodeesia Komisjoni ametlikeks liikmeteks

Liibusk, Aive; **Ellmann, Artu** Geodeet 2022 / lk. 14-18 : fot http://www.ester.ee/record=b1072198*est

Eestikeelne geoterminoloogia vaid hiirekliki kaugusele!

Ellmann, Artu Geodeet 2006 / lk. 52-53

Ehitusgeodeesia õpetamisest Tallinna Tehnikaülikoolis

Metsvahi, Tiit; Ellmann, Artu Geodeet 2018 / lk. 53-54 : fot http://www.ester.ee/record=b1072198*est

Ehitusgeodeesia õpetamisest Tallinna Tehnikaülikoolis COVID-19 pandeemia esimesel aastal

Sein, Sander; Ellmann, Artu Geodeet 2020 / lk. 49-51 : fot http://www.ester.ee/record=b1072198*est

Ehitusgeodeesiast Tallinna Tehnikaülikoolis

Metsvahi, Tiit; Ellmann, Artu Geodeet 2019 / lk. 61-63 : fot http://www.ester.ee/record=b1072198*est

Enhancement of Unmanned Aerial Vehicle photogrammetry by high-resolution airborne laser scanning data [Electronic resource]

Julge, Kalev; Ellmann, Artu 26th IUGG General Assembly 2015 : Prague, Czech Republic, Prague Congress Centre, June 22-July 02, 2015 2015 / [1] p

Esimesed kogemused sateliit-tehisavaradari (SAR) aktiivtransponderitega Eestis

Varbla, Sander; Ellmann, Artu Geodeet 2020 / lk. 30-35 : ill http://www.ester.ee/record=b1072198*est

EUREF2018 sümpoosion Amsterdamis

Kollo, Karin; Ellmann, Artu Geodeet 2018 / lk. 61 : fot http://www.ester.ee/record=b1072198*est

Euroopa Geoteaduste Liidu Peaassamblee EGU2009 Viinis : [osalemisest ja sõnavõttudest]

Ellmann, Artu; Oja, Tõnis Geodeet 2009 / lk. 83-84 : ill

Evaluating of sea surface heights from multi-mission satellite altimetry by utilizing hydrodynamic and geoid models

Mostafavi, Majid; Delpeche-Ellmann, Nicole Camille; Ellmann, Artu Geodesy for a Sustainable Earth, Scientific Assembly of the International Association of Geodesy : abstract book 2021 / S5-032; 1 p https://mm.sciconf.cn/en/minisite/poster-detail-new/1646?poster_id=1566532

Evaluating the accuracy of orthophotos and 3D models from UAV photogrammetry

Julge, Kalev; Ellmann, Artu Geophysical research abstracts 2015 / p. EGU2015-655

Evaluation of a grace-based combined geopotential model over the Baltic countries

Ellmann, Artu; Jürgenson, Harli Geodezija ir kartografija = Geodesy and cartography 2008 / 2, p. 35-44 : ill

Evaluation of Stokes-Helmert geoid model computation using a synthetic gravity field

Santos, M.C.; Vanicek, P.; Ellmann, Artu Joint Scientific Congress "Bridging Environmental Science, Policy, and Resource Management". Session : Gravity, Geoid and Height Systems 2013

Evaluation results of the Earth gravitational model EGM08 over the Baltic countries

Ellmann, Artu; Kaminskis, J.; Parseliunas, E.; Jürgenson, Harli; Oja, Tõnis Newton's bulletin 2009 / 4, External quality evaluation reports of EGM08, p. 110-121 : ill

Examining and quantifying the role of transverse jets in coastal upwellings, from a Lagrangian transport perspective

Delpeche-Ellmann, Nicole Camille; Soomere, Tarmo; Ellmann, Artu IUGG 2019 : abstract book 2019 / [1] p., abstract: IUGG19-2212 <http://iugg2019montreal.com/abstract-book.html>

Examining mean dynamic topography using geodetic and oceanographic approaches for the Baltic Sea

Jahanmard, Vahidreza; Delpeche-Ellmann, Nicole Camille; Ellmann, Artu Nordic Geodetic Commission General Assembly 2022 in Copenhagen : Session 1 - Planet Ocean and Geodesy 2022 / 2 p <https://medialib.cmcdn.dk/medialibrary/010C1367-E991-4A33-AB10-1953247E9C23/66B785FC-3925-ED11-84B6-00155D0B0940.pdf> <https://www.conferencemanager.dk/nkg-2022/sessions>

Examining the performance of along track multi-mission satellite altimetry – a case study for Sentinel-6

Heinoja, Lenne-Liisa; Delpeche-Ellmann, Nicole Camille; Ellmann, Artu Journal of geodetic science 2023 / art. 20220159 <https://doi.org/10.1515/jogs-2022-0159>

Examining the performance of satellite altimetry along track sea level data for Sentinel-6, Jason3 and Sentinel-3

Heinoja, Lenne-Liisa; Delpeche-Ellmann, Nicole Camille; Ellmann, Artu Nordic Geodetic Commission General Assembly 2022 in Copenhagen : Poster Session 2022 / 24 l. <https://medialib.cmcdn.dk/medialibrary/010C1367-E991-4A33-AB10-1953247E9C23/530AEABD-3A25-ED11-84B6-00155D0B0940.pdf>

Examining the performance of the sentinel-3 coastal altimetry in the Baltic Sea using a regional high-resolution Geoid model

Birgiel, Elzbieta; Ellmann, Artu; Delpeche-Ellmann, Nicole Camille 2018 Baltic Geodetic Congress : BGC Geomatics, Olsztyn, Poland, 21-23 June, 2018 : proceedings 2018 / p. 196–201 : ill <https://doi.org/10.1109/BGC-Geomatics.2018.00043>

Examining the performance sentinel-3A SAR altimetry retrackers and hydrodynamic models using a high-Resolution Geoid model in the Baltic Sea

Delpeche-Ellmann, Nicole Camille; Mostafavi, Majid; Ellmann, Artu 12th Coastal Altimetry Workshop : Coastal Altimetry Training Course, 4-7 February, 2020 : European Space Agency ESRI, Frascati, Italy : abstracts 2020 / p. 14
<https://az659834.vo.msecnd.net/eventsairwesteuprod/production-nikal-public/ae128dad984c40168397660cc8d0ede7>

Exploring sea surface heights by using airborne laser scanning

Julge, Kalev; Gruno, Anti; Ellmann, Artu; Liibus, Aive; Oja, Tõnis 2014 IEEE/OES Baltic International Symposium : 26-29 May 2014, Tallinn, Estonia : [proceedings] 2014 / [7] p. : ill

Exploring sea surface heights by using airborne laser scanning

Julge, Kalev; Gruno, Anti; Ellmann, Artu; Oja, Tõnis; Liibus, Aive Measuring and Modeling of Multi-Scale Interactions in the Marine Environment : IEEE/OES Baltic Symposium 2014, May 26.-29.2014, Tallinn, Estonia : book of abstracts 2014 / p. 50

Far-zone contributions to the gravity field quantities by means of Molodensky's truncation coefficients

Tenzer, Robert; Novak, Pavel; Prutkin, Ilya; **Ellmann, Artu;** Vajda, Peter Studia geophysica et geodaetica 2009 / p. 157-167 : ill
<https://link.springer.com/article/10.1007/s11200-009-0010-1>

Far-zone gravity field contributions corrected for the effect of topography by means of Molodensky's truncation coefficients

Tenzer, Robert; Novak, Pavel; Vajda, Peter; **Ellmann, Artu;** Abdalla, Ahmed Studia geophysica et geodaetica 2011 / p. 55-71 : ill

Fassaadide võrdlev mõõdistus tahhümeetria, maapealse fotogramm-meetria ja laserskaneerimise teel

Elmi, Liis; **Märdla, Silja; Ellmann, Artu** Geodeet 2014 / lk. 92-94, 96-101 : ill https://artiklid.elnet.ee/record=b2721043*est

Forecasting of absolute dynamic topography by utilizing machine learning with synergy of satellite altimetry data

Delpeche-Ellmann, Nicole Camille; Rajabi-Kiasari, Saeed; **Ellmann, Artu** 13th Coastal Altimetry Workshop & Coastal Altimetry Training, 6-10 February 2023, Universidad de Cádiz, Spain : abstract 2023 / p. 42
<https://www.coastalaltimetry.org/NikalWebsitePortal/coastal-altimetry-workshop/esa/ExtraContent/ContentSubPage?page=8&subPage=3>

Forecasting of absolute dynamic topography using deep learning algorithm with application to the Baltic Sea

Rajabi-Kiasari, Saeed; Delpeche-Ellmann, Nicole Camille; Ellmann, Artu Computers & geosciences 2023 / art. 105406, 16 p. : ill <https://doi.org/10.1016/j.cageo.2023.105406>

The forthcoming Baltic Sea Chart Datum 2000 – how harmonized height reference benefits sustainability

Schwabe, Joachim; Ågren, Jonas; Liebsch, Gunter; **Varbla, Sander; Ellmann, Artu;** Teitsson, Hergeir; Forsberg, Rene; Strykowski, Gabriel; Bilker-Koivula, Mirjam; Westfeld, Patrick XXVIII General Assembly of the International Union of Geodesy and Geophysics (IUGG) 2023 <https://doi.org/10.57757/IUGG23-2441>

From discrete gravity survey data to a high-resolution gravity field representation in the Nordic-Baltic region

Märdla, Silja; Ågren, Jonas; Strykowski, Gabriel; Oja, Tõnis; **Ellmann, Artu** Marine geodesy 2017 / p. 416-453 : ill
<https://doi.org/10.1080/01490419.2017.1326428>

From discrete gravity survey data to a high-resolution gravity field representation in the Nordic-Baltic region [Online resource]

Märdla, Silja; Ågren, Jonas; Strykowski, Gabriel; Oja, Tõnis; **Ellmann, Artu** 1st Joint Commission 2 and IGFS Meeting International Symposium on Gravity, Geoid and Height Systems 2016 : September 19-23, 2016, Thessaloniki, Greece : program 2016 / [2] p
<http://gghs2016.com/presentation-info/?presentation=719>

Full scale reinforced road embankment test sections over soft peat layer, Võõbu, Estonia [Online resource]

Forsman, Juha; Dettenborn, Taavi; Skepast, Peeter; Mets, Mait; Olep, Mattias; **Ellmann, Artu;** Vallas, Ivo; Tõnts, Taavi; **Kontson, Karli** The 17th Nordic Geotechnical Meeting : Reykjavik, Iceland, 25th - 28th of May 2016 : conference proceedings 2016 / p. 1279-1281 : ill <http://www.ngm2016.com/papers.html>

Füüsikalise geodeesia ja gravimeetria alused

Ellmann, Artu; Oja, Tõnis; Jürgenson, Harli 2008 http://www.ester.ee/record=b2394460*est

Geodeesia ja geoinformaatika tutvustamine kooliõpilastele

Talvik, Silja; Julge, Kalev; **Ellmann, Artu** Geodeet 2013 / lk. 87-89 : ill

Geodeesia laboratoorse praktikumi juhend

2010 http://www.ester.ee/record=b2625859*est

Geodeesia laboratoorse praktikumi juhend. 2

2016 http://www.ester.ee/record=b4550088*est

Geodeesia laboratoorse praktikumi juhend. I

2013 http://www.ester.ee/record=b2997432*est

Geodeesia laboratoorse praktikumi juhend. II

2011 http://www.ester.ee/record=b2663876*est

Geodeesia magistriõpe Tallinna Tehnikaülikoolis, selle seosed kutsesüsteemiga

Ellmann, Artu Geodeet 2013 / lk. 62-63 : ill

Geodeesia olümpiamedaleid vaagimas

Ellmann, Artu Horisont 2012 / lk. 10-12 : ill https://artiklid.elnet.ee/record=b2527761*est

Geodeesia õppepraktika juhend

2011 https://www.ester.ee/record=b2696144*est

Geodeesiakonverentsid Põhjamaades 2018. aastal

Varbla, Sander; Ellmann, Artu Geodeet 2018 / lk. 62-64 : fot http://www.ester.ee/record=b1072198*est

Geodeesiaõpe Tallinna Tehnikaülikoolis

Ellmann, Artu Geodeet 2011 / lk. 21

Geodetic monitoring of bridge deformations occurring during static load testing

Mill, Tarvo; Ellmann, Artu; Kiisa, Martti; Idnurm, Juhan; Horemuz, Milan; **Aavik, Andrus** The Baltic journal of road and bridge engineering 2015 / p. 17-27 : ill

Geodetic reconciliation of tide gauge network in Estonia

Kollo, Karin; **Ellmann, Artu** Geophysica 2019 / p. 27–38 : ill http://www.geophysica.fi/pdf/geophysica_2019_54_kollo.pdf [Journal metrics at Scopus](#) [Article at Scopus](#)

Geodetic SAR for Baltic height system unification and Baltic Sea level research : final report

Gruber, Thomas; Angermann, Detlef; Schlaak, Marius; Oikonomidou, Xanthi; Gisinger, Christoph; Brcic, Ramon; Poutanen, Markku; Marila, Simo; **Ellmann, Artu; Varbla, Sander** 2021 https://www.asg.ed.tum.de/fileadmin/w00cip/iapg/Baltic/SAR-HSU-FR-0022_Final_Report.pdf

Geodetic SAR for height system unification and sea level research - observation concept and preliminary results in the Baltic Sea

Gruber, Thomas; Agren, Jonas; Angermann, Detlef; **Ellmann, Artu;** Engfeldt, Andreas; Gisinger, Christoph; Jaworski, Leszek; **Varbla, Sander** Remote sensing 2020 / art. 3747, 30 p. : ill <https://doi.org/10.3390/rs12223747> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Geodetic SAR for height system unification and sea level research - observation concept and results in the Baltic Sea

Gruber, Thomas; Agren, Jonas; Angermann, Detlef; **Ellmann, Artu;** Gisinger, Christoph; Nastula, Jolanta; Poutanen, Markku; Schlaak, Marius; Nilfouroushan, Faramarz; **Varbla, Sander** Geodesy for a Sustainable Earth, Scientific Assembly of the International Association of Geodesy : abstract book 2021 / p. 78 S1-067 https://files.scicconf.cn/upload/file/20210626/20210626085039_69146.pdf

Geodetic SAR for height system unification and sea level research - observation concept and results in the Baltic Sea : [poster]

Gruber, Thomas; Lantmäteriet, Jonas Ågren; Angermann, Detlef; **Ellmann, Artu;** Gisinger, Christoph; Nastula, Jolanta; Poutanen, Markku; Schlaak, Marius; Lantmäteriet, Faramarz Nilfouroushan; **Varbla, Sander** Living Planet Symposium : Bonn, 23-27 May 2022 2022 / 1 p https://express.converia.de/frontend/index.php?page_id=22633&additions_conferenceschedule_action=detail&additions_conferenceschedule_controller=paperList&pid=62935&hash=2524229591939d85af23f837766064279e6f1e649f62cdead4778160c1e39e50

Geodetic SAR for height system unification and sea level research in the Baltics

Gruber, Thomas; Agren, Jonas; Angermann, Detlef; **Ellmann, Artu;** Gisinger, Christoph; Nastula, Jolanta; Oikonomidou, Xanthi; Poutanen, Markku Geophysical research abstracts 2020 / EGU2020-3132, 1 p <https://doi.org/10.5194/egusphere-egu2020-3132>

Geodetic SAR for height system unification and sea level research-results in the Baltic Sea test network

Gruber, Thomas; Agren, Jonas; Angermann, Detlef; **Ellmann, Artu;** Engfeldt, Andreas; Gisinger, Christoph; Jaworski, Leszek; Kur, Tomasz; Marila, Simo; Varbla, Sander Remote sensing 2022 / art. 3250 <https://doi.org/10.3390/rs14143250> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Geodetic surveying studies for civil engineering students at Tallinn University of Technology

Ustinova, Nelli; Kala, Vello; Mill, Tarvo; Ellmann, Artu Geodesy and cartography 2012 / p. 86-91

Geodetic validation of sea Level variability in offshore

Ellmann, Artu; Kollo, Karin; **Varbla, Sander** IUGG 2019 : abstract book 2019 / [1] p., abstract: JG06 p-109
<http://iugg2019montreal.com/abstract-book.html>

Geoid modeling by the least squares modification of Hotine's and Stokes' formulae using non-gridded gravity data
Sakil, Fatima Feyza; Erol, Serdar; **Ellmann, Artu;** Erol, Bihter Computers & geosciences 2021 / art. 104909
<https://doi.org/10.1016/j.cageo.2021.104909> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Geoid profiles in the Baltic Sea determined using GPS and sea level surface
Jürgenson, Harli; Liibus, Aive; **Ellmann, Artu** Geodezija ir kartografija = Geodesy and cartography 2008 / 4, p. 109-115

Geoidi modelleerimine kõrguste lähtenivoopinnana
Ellmann, Artu; Märdla, Silja; Oja, Tõnis Teadusmõte Eestis (X). Tehnikateadused. 3 : [artiklikogumik] 2019 / lk. 21-36 : ill
https://www.ester.ee/record=b5208765*est

Geosünteetika kasutamine teekatendis maantee 15111 km 0,0-8,7 remondi näitel : teadustöö Lep8132 : lõpparuanne, 2009-15/L
Aavik, Andrus; Ellmann, Artu; Paabo, Priit 2013

Geotechnical analysis of road embankment test sections over soft peat layer in Estonia
Sillamäe, Sven; Ellmann, Artu; Varbla, Sander 30th International Baltic Road Conference August 23–24, 2021 : Abstracts 2021 / p. 29 https://balticroads.org/wp-content/uploads/2021/08/BRC_Abstacts_2021_V2.pdf

Globaalse meretaseme ja glatsiaal-isostaatilise tasakaalustumise modelleerimise konverents Ateenas
Ellmann, Artu; Oja, Tõnis Geodeet 2012 / lk. 108-110 : fot https://artiklid.elnet.ee/record=b2553467*est

Global ellipsoid-referenced topographic, bathymetric and stripping corrections to gravity disturbance
Vajda, Peter; **Ellmann, Artu;** Meurers, B.; Vanicek, P.; Novak, Pavel; Tenzer, Robert Studia geophysica et geodaetica 2008 / 1, p. 19-34

GNSS - globaalne satelliitnavigatsioonisüsteem geodeetilise täpsusega asukohamääranguks : praktilised ülesanded
Ellmann, Artu; Kall, Tarmo; Kollo, Karin; Liibus, Aive 2022 <http://hdl.handle.net/10492/7805> https://www.ester.ee/record=b5524660*est

GNSS - globaalne satelliitnavigatsioonisüsteem geodeetilise täpsusega asukohamääranguks : õpik kõrgkoolidele
Ellmann, Artu; Kall, Tarmo; Kollo, Karin; Liibus, Aive 2022 https://www.ester.ee/record=b5524661*est

GNSS-püsijaamade aegridade kasutamine jääajajärgse maatõusu täpsustamisel
Metsar, Jaanus; Kollo, Karin; **Ellmann, Artu** Geodeet 2016 / lk. 52-55 : ill http://www.ester.ee/record=b1072198*est
https://artiklid.elnet.ee/record=b2802973*est

Gravimeetriline marsruutmöödistamine 2008. aastal
Gruno, Anti; Oja, Tõnis; Ellmann, Artu Geodeet 2009 / lk. 28-33 : ill

Gravimeetriliste andmete kasutamine tavageodeesias
Ellmann, Artu; Oja, Tõnis Geodeet 2008 / lk. 5-11 : ill

Gravity anomaly field over Estonia
Oja, Tõnis; **Ellmann, Artu;** Märdla, Silja Estonian journal of earth sciences 2019 / p.55-75 : ill
http://www.eap.ee/public/Estonian_Journal_of_Earth_Sciences/2019/issue_2/earth-2019-2-55-75.pdf <https://doi.org/10.3176/earth.2019.06>
[Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Gravity disturbances in regions of negative heights : a reference quasi-ellipsoid approach
Vajda, Peter; **Ellmann, Artu;** Meurers, B.; Vanicek, P.; Novak, Pavel; Tenzer, Robert Studia geophysica et geodaetica 2008 / 1, p. 35-52 : ill

Gravity surveys on large icecovered lakes in Estonia [Electronic resource]
Oja, Tõnis; Ellmann, Artu; Bloom, Ahti; Gruno, Anti Geophysical research abstracts 2010 / p. EGU2010-13761 [CD-ROM]

Haridusreformieelne vaade geodeesiaõppele Tallinna Tehnikaülikoolis
Ellmann, Artu Geodeet 2012 / lk. 35 : ill

Harmonic continuation and gravimetric inversion of gravity in areas of negative geodetic heights
Vajda, Peter; **Ellmann, Artu;** Meurers, B.; Vanicek, P.; Novak, Pavel; Tenzer, Robert Gravity, Geoid and Earth Observation : IAG Commission 2: Gravity Field, Chania, Crete, Greece, 23-27 June 2008 2010 / p. 25-30 : ill

IAG Euroopa referentsraamistike allkomisjoni EUREF Sümpoosion Tallinnas

Ellmann, Artu; Kollo, Karin Geodeet 2019 / lk. 52-54 : fot http://www.ester.ee/record=b1072198*est

Improving and validating gravity data over ice-covered marine areas

Märdla, Silja; Oja, Tõnis; **Ellmann, Artu**; Jürgenson, Harli IAG 150 years : proceedings of the 2013 IAG Scientific Assembly, Potsdam, Germany, 1-6 September, 2013 2016 / p. 263-270 : ill http://dx.doi.org/10.1007/1345_2015_163

Improving regional gravity field and geoid modelling by various use of global geopotential models [Online resource]

Märdla, Silja; **Ellmann, Artu**; Oja, Tõnis; Ågren, Jonas 26th IUGG General Assembly 2015 : Prague, Czech Republic, Prague Congress Centre, June 22-July 02, 2015 2015 / [1] p

Improving the terrestrial gravity dataset in South-Estonia [Electronic resource]

Oja, Tõnis; Gruno, Anti; Bloom, Ahti; Mäekivi, E.; **Ellmann, Artu**; **All, Tarmo**; Jürgenson, Harli; Michelson, M. Geophysical research abstracts 2009 / p. EGU2009-10997 [CD-ROM]

In memoriam Juhani Antero Kakkuri

Vallner, Raivo; Rüdja, Andres; **Ellmann, Artu** Geodeet 2022 / lk. 80-81 : portr http://www.ester.ee/record=b1072198*est

Influence of wind and waves on Lagrangian transport using a synergy of satellite and in-situ surface drifters for Baltic Sea

Delpeche-Ellmann, Nicole Camille; Giudici, Andrea; Soomere, Tarmo; **Ellmann, Artu** XXVIII General Assembly of the International Union of Geodesy and Geophysics (IUGG) 2023 <https://doi.org/10.57757/IUGG23-3642>

Initial tests and accuracy assessment of a compact mobile laser scanning system [Online resource]

Julge, Kalev; **Ellmann, Artu**; Vajakas, Toivo; Kolka, Riivo The International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences : XXIII ISPRS Congress, 12-19 July 2016, Prague, Czech Republic. Volume XL-B1 2016 / p. 633-638 : ill <http://dx.doi.org/10.5194/isprs-archives-XL-B1-633-2016>

An initiative for a European Height Reference Surface

Schwabe, Joachim; Sacher, Martina; Liebsch, Gunter; Lidberg, Martin; Denker, Heiner; Ågren, Jonas; Alfredsson, Anders; Barzaghi, Riccardo; **Ellmann, Artu**; **Varbla, Sander** XXVIII General Assembly of the International Union of Geodesy and Geophysics (IUGG) 2023 <https://doi.org/10.57757/IUGG23-2451>

Interrelation between the geoid and orthometric heights

Ellmann, Artu; Vanicek, P.; Santos, M.; Kingdon, R. Harita dergisi 2007 / June, Special issue 18, Proceedings of the 1st International Symposium of the International Gravity Field Service "Gravity Field of the Earth" : 28 August - 1 September, 2006, Istanbul, Turkey, p. 130-135

Investigations towards the NKG2014 geoid model in Estonia [Electronic resource]

Märdla, Silja; Oja, Tõnis; **Ellmann, Artu** Abstract Book for the NKG General Assembly : Göteborg, Sweden, September 1-4, 2014 2014 / p. 14 http://www.lantmateriet.se/globalassets/kartor-och-geografisk-information/gps-och-matning/nkg2014/abstract_book_nkg2014_web.pdf

An iterative approach for near-coast Marine Geoid Modelling and sea level analysis using satellite altimetry, in-situ and modeled data

Delpeche-Ellmann, Nicole Camille; **Ellmann, Artu** IUGG 2019 : abstract book 2019 / [1] p., abstract: JG06 p-107 <http://iugg2019montreal.com/abstract-book.html>

Iterative data assimilation approach for the refinement of marine geoid models using sea surface height and dynamic topography datasets

Varbla, Sander; **Ellmann, Artu** Journal of geodesy 2023 / art. 24, 22 p. : ill <https://doi.org/10.1007/s00190-023-01711-7>

Iterative data assimilation approach for the refinement of marine geoid models using sea surface height and dynamic topography datasets : [conference paper]

Varbla, Sander; **Ellmann, Artu** XXVIII General Assembly of the International Union of Geodesy and Geophysics (IUGG) 2023 <https://doi.org/10.57757/IUGG23-0253>

Iterative refinement and accuracy validation of marine geoid models = Meregeoidi mudelite iteratiivne täpsustamine ja täpsuse valideerimine

Varbla, Sander 2023 <https://doi.org/10.23658/taltech.35/2023> <https://digikogu.taltech.ee/et/Item/4087a2ae-321e-4a1b-b11f-dd8fd5ab1b99> https://www.ester.ee/record=b5568726*est

Iterative refinement of regional marine geoid models by using sea surface height and dynamic topography datasets

Varbla, Sander; **Ellmann, Artu** Geodesy for a Sustainable Earth, Scientific Assembly of the International Association of Geodesy : abstract book 2021 / p. 111 S2a-026 https://files.sciconf.cn/upload/file/20210626/20210626085039_69146.pdf

Iterative refinement of regional marine geoid models using sea surface height and dynamic topography datasets

Varbla, Sander; Ellmann, Artu Nordic Geodetic Commission General Assembly 2022 in Copenhagen : Poster Session 2022 / 38 I.
<https://medialib.cmcdn.dk/medialibrary/010C1367-E991-4A33-AB10-1953247E9C23/530AEABD-3A25-ED11-84B6-00155D0B0940.pdf>

Kolm uut geodeesiadoktorit Tallinna Tehnikaülikoolist

Ellmann, Artu Geodeet 2018 / lk. 56-60 : fot http://www.ester.ee/record=b1072198*est

Kosmosetehnoloogia rakendused geoidi ja gravitatsioonivälja täpsustamiseks Eesti alal

Ellmann, Artu; Oja, Tõnis; Jürgenson, Harli Geodeet 2011 / lk. 22-25 : ill

Kosmosetehnoloogilised rakendused geoidi ja gravitatsioonivälja modelleerimiseks Eesti alal

Ellmann, Artu Tallinna Tehnikaülikooli aastaraamat 2008 2009 / lk. 99-110 : ill

Kui palju ehitusgeodeesia insenere on vaja, et valmis ehitada 16 kilomeetrit 4-realist maanteed?

Kask, Mihkel; Sein, Sander; Ellmann, Artu Geodeet 2022 / lk. 52-56 : fot http://www.ester.ee/record=b1072198*est

Kutsestandard - teekond Geodeesiainsener, tase 8-ni

Liibusk, Aive; Kakko, Mairolt; Ellmann, Artu Geodeet 2024 / lk. 8-11 : ill https://www.ester.ee/record=b1072198*est

Kõrgem geodeesia : polügonomeetria ja kõrgtäpne nivelleerimine

Kala, Vello; Ellmann, Artu; Märdla, Silja 2015 http://www.ester.ee/record=b4467361*est

Kõrgtäpsed GPS-mõõtmised riigi geodeetilise põhivõrgu aluspunktidel 2008. aasta suvel

Ellmann, Artu; Pihlak, Priit; Kollo, Karin Geodeet 2008 / lk. 7-12 : ill

Laser scanning of built environment and landforms with spatial modelling applications = Laserskaneerimine ehitiste ja looduslike pinnavormide mõõdistamisel ning tulemuste modelleerimine

Julge, Kaleb 2018 <https://digi.lib.ttu.ee/i/?9288>

Laser scanning reveals detailed spatial structure of sandy beaches

Eelsalu, Maris; Julge, Kaleb; Grünthal, Erko; Ellmann, Artu; Soomere, Tarmo IUTAM Symposium on Complexity of Nonlinear Waves : book of abstracts 2014 / p. 45

Lembit Tamme 29.05.1932-07.05.2016 : in memoriam

Ellmann, Artu Geodeet 2016 / lk. 98-99 : portr http://www.ester.ee/record=b1072198*est

Long-term and decadal sea-level trends of the Baltic Sea using along-track satellite altimetry

Mostafavi, Majid; Ellmann, Artu; Delpeche-Ellmann, Nicole Camille Remote sensing 2024 / art. 760
<https://doi.org/10.3390/rs16050760>

Maa raskuskiirenduse välja mõjust täppisnivelleerimise tulemustele klintastangu näitel

Talvik, Silja; Ellmann, Artu; Oja, Tõnis Geodeet 2012 / lk. 19-22 : ill

Machine learning Forecasting of Absolute Dynamic Topography in the Baltic Sea

Rajabi-Kiasari, Saeed; Delpeche-Ellmann, Nicole Camille; Ellmann, Artu Nordic Geodetic Commission General Assembly 2022 in Copenhagen : Poster Session 2022 / 36 I. <https://medialib.cmcdn.dk/medialibrary/010C1367-E991-4A33-AB10-1953247E9C23/530AEABD-3A25-ED11-84B6-00155D0B0940.pdf>

Machine learning prediction for filling the interruptions of tide gauge data using a least square estimation method from nearest stations

Jahanmard, Vahidreza; Delpeche-Ellmann, Nicole Camille; Ellmann, Artu Geodesy for a Sustainable Earth, Scientific Assembly of the International Association of Geodesy : abstract book 2021 / S5-030 p. 529 https://mm.sciconf.cn/en/minisite/poster-detail-new/1646?poster_id=1563508 https://files.sciconf.cn/upload/file/20210626/20210626085039_69146.pdf

Meregravimeetriselised mõõdistused Lääne-Eesti vetes FAMOS projekti raames

Ellmann, Artu; Väling, Peeter; Oja, Tõnis Geodeet 2016 / lk. 80-82 : ill http://www.ester.ee/record=b1072198*est

Meregravimeetriselised mõõdistused Soome lahel projekti FAMOS raames

Varbla, Sander; Ellmann, Artu; Metsar, Jaanus; Oja, Tõnis Geodeet 2017 / lk. 39-43 : ill http://www.ester.ee/record=b1072198*est

Merevee taseme mõõtmine madala hinnaklassi GNSS-sensoriga

Koobak, Johanna; Varbla, Sander; Ellmann, Artu Geodeet 2022 / lk. 19-25 : ill http://www.ester.ee/record=b1072198*est

Modelling the influence of terraced landforms to the Earth's gravity field

Märdla, Silja; Oja, Tõnis; Ellmann, Artu; Jürgenson, Harli Gravity, Geoid and Height Systems : proceedings of the IAG Symposium GGHS2012, October 9-12, 2012, Venice, Italy 2014 / p. 157-162 : ill

Modelling the influence of terraced landforms to the Earth's gravity field

Talvik, Silja; Oja, Tõnis; **Ellmann, Artu;** Jürgenson, Harli International Symposium on Gravity, Geoid and Height Systems GGHS2012 : Venice, October 9-12, 2012 2013

Modernization of construction as-built surveying documentation

Jerjomina, A.; **Varbla, Sander;** Hion, T.; **Ellmann, Artu** Current problems in engineering surveying abstracts of XVI International Science and Technology Conference 2023 / p. 15

Modernization of the Estonian national GNSS reference station network

Metsar, Jaanus; Kollo, Karin; **Ellmann, Artu** Geodesy and cartography 2018 / p. 55-62 : ill <https://doi.org/10.3846/gac.2018.2023>
[Journal metrics at Scopus](#) [Article at Scopus](#)

Modified Stokes's formula for regional geoid modeling : deterministic and stochastic modifications of Stokes's formula for computing an improved geoid model over the Baltic Countries

Ellmann, Artu 2009 https://www.ester.ee/record=b2616287*est

Monitoring of coastal processes by using airborne laser scanning data

Grünthal, Erkkö; **Gruno, Anti;** **Ellmann, Artu** The 9th International Conference "Environmental Engineering" : 22-23 May 2014, Vilnius, Lithuania : selected papers 2014 / p. 1-7 : ill

Mudelpindade EST-GEOID2011 ja EST-GEOID2003 omavahelistest erinevustest ning võimalikust üleminekust uuele kõrgussüsteemile

Oja, Tõnis; **Ellmann, Artu;** Jürgenson, Harli; Kall, Tarmo Geodeet 2011 / lk. 31-37 : ill

Multi-epoch GNSS campaigns of the national geodetic network in Estonia

Metsar, Jaanus; Kollo, Karin; **Ellmann, Artu;** Rüdja, Andres; Pihlak, Priit [EUREF2019 abstracts] 2019 / p. [23]
<http://www.maaamet.ee/euref2019/EUREF2019-Abstracts.pdf> [Journal metrics at Scopus](#) [Article at Scopus](#)

Multi-epoch GNSS campaigns of the National Geodetic Network in Estonia

Metsar, Jaanus; Kollo, Karin; **Ellmann, Artu;** Rüdja, Andres; Pihlak, Priit Geophysica 2019 / p. 51-60
http://www.geophysica.fi/pdf/geophysica_2019_54_metsar.pdf

Multi-epoch re-measurements of the EUREF densification network in Estonia

Metsar, Jaanus; Kollo, Karin; **Ellmann, Artu;** Pihlak, Priit; Rüdja, Andres Geophysical research abstracts 2019 / p. EGU2019-16401
<https://meetingorganizer.copernicus.org/EGU2019/EGU2019-16401.pdf>

A multivariate-multistep-ahead forecasting of dynamic topography using convolutional encoder-decoder network in the Baltic Sea

Rajabi Kiasari, Saeed; **Delpeche-Ellmann, Nicole Camille;** **Ellmann, Artu** XXVIII General Assembly of the International Union of Geodesy and Geophysics (IUGG) 2023 <https://doi.org/10.57757/IUGG23-1664>

Multi-year solution for the ESTPOS network

Kollo, Karin; Metsar, Jaanus; Pihlak, Priit; **Ellmann, Artu** [EUREF2019 abstracts] 2019 / p. [6]
<http://www.maaamet.ee/euref2019/EUREF2019-Abstracts.pdf>

Muudatused Tallinna Tehnikaülikooli geodeesia magistriõppes

Ellmann, Artu Geodeet 2014 / lk. 74-75 : ill https://artiklid.elnet.ee/record=b2721040*est

New 5 mm geoid model for Estonia

Ellmann, Artu; Oja, Tõnis [EUREF2019 abstracts] 2019 / p. [60] <https://www.maaamet.ee/euref2019/EUREF2019-Abstracts.pdf>

A new Taiwanese geoid model based upon airborne, satellite and terrestrial gravimetric data

Ellmann, Artu; Hwang, C.; Hsiao, Y.-S. Harita dergisi 2007 / June, Special issue 18, Proceedings of the 1st International Symposium of the International Gravity Field Service "Gravity Field of the Earth" : 28 August - 1 September, 2006, Istanbul, Turkey, p. 72-77 : ill
http://space.cv.nctu.edu.tw/static/data/publications/Ellmann_IGFS2006_TaiwanGeoid_v2.pdf

Observations of Lagrangian transport using a synergy of satellite and in-situ surface drifters in the Baltic Sea for the period 2011-2018

Delpeche-Ellmann, Nicole Camille; Giudici, Andrea; Rätsep, Margus; Soomere, Tarmo; **Ellmann, Artu** Living Planet Symposium : Bonn, 23-27 May 2022 2022 / 1 p https://express.converia.de/frontend/index.php?page_id=22770&additions_conferenceschedule_action=detail&additions_conferenceschedule_controller=paperList&pid=66768&hash=c6edadcd07d79522805fc8f6f306e4565b46e806a78f56dc65f0df9e4f142dc0

On ambiguities in definitions and applications of Bouguer gravity anomaly

Vajda, Peter; Vanicek, P.; Novak, Paul; Tenzer, Robert; **Ellmann, Artu;** Meurers, B. Gravity, Geoid and Earth Observation : IAG Commission 2: Gravity Field, Chania, Crete, Greece, 23-27 June 2008 2010 / p. 19-24 : ill

On evaluation of the mean gravity gradient within the topography

Tenzer, Robert; **Ellmann, Artu** Observing our changing Earth : proceedings of the 2007 IAG General Assembly : Perugia, Italy, July 2-13, 2007 2009 / p. 253-261 : ill

On the development of the new Nordic gravimetric geoid model NKG2015

Ägren, Jonas; **Märdla, Silja; Ellmann, Artu** 26th IUGG General Assembly 2015 : Prague, Czech Republic, Prague Congress Centre, June 22-July 02, 2015 2015 / [1] p

Ortalama gravite anomalilerinin enterpolasyonunda basit ve tamamlanmış Bouguer yaklaşımının karşılaştırılması

Abbak, Ramazan Alpay; Üstün, Aydın; **Ellmann, Artu** Journal of geodesy and geoinformation = Jeodezi ve jeoinformasyon dergisi 2012 / p. 45-52 : ill <https://dergipark.org.tr/tr/pub/hkmojd/issue/53154/704803>

Overview of the FAMOS efforts to improve the Baltic Sea geoid model by new marine gravity measurements

Ägren, Jonas; Schwabe, Joachim; Strykowski, Gabriel; **Ellmann, Artu; Märdla, Silja** IAG-IASPEI 2017 : Joint Scientific Assembly of the International Association of Geodesy (IAG) and International Association of Seismology and Physics of the Earth's Interior (IASPEI) : Kobe (Japan), July 30 - August 4, 2017 : abstract book 2017 / p. [72] http://www.iag-iaspei-2017.jp/files/IAG-IASPEI2017_abstracts.pdf

Performance analysis of a compact and low-cost mapping-grade mobile laser scanning system

Julge, Kalev; Vajakas, Toivo; **Ellmann, Artu** Journal of applied remote sensing 2017 / p. 044003-1 - 044003-23 : ill <http://dx.doi.org/10.1117/1.JRS.11.044003>

Performance analysis of freeware filtering algorithms for determining ground surface from airborne laser scanning data

Julge, Kalev; Ellmann, Artu; Gruno, Anti Journal of applied remote sensing 2014 / p. 083573-1-083573-15 : ill

Performance of sentinel-3 and CryoSat-2 altimetry in the coastal regions of the Baltic Sea ; S6-P2

Birgiel, Elzbieta; **Ellmann, Artu; Delpeche-Ellmann, Nicole Camille** International Symposium Gravity, Geoid and Height Systems 2 : GGHS2018 : "Gravity Field Of The Earth" : The 2nd joint meeting of the International Gravity Field Service and Commission 2 of the International Association of Geodesy, Copenhagen, Denmark, Sept. 17-21, 2018 : abstract book 2018 / p. 143-144

Performance of sentinel-3A SAR altimetry retracers: The SAMOSA coastal sea surface heights for the Baltic Sea

Birgiel, Elzbieta; Ellmann, Artu; Delpeche-Ellmann, Nicole Camille Fiducial Reference Measurements for Altimetry : Proceedings of the International Review Workshop on Satellite Altimetry Cal/Val Activities and Applications 2020 / p. 23-32 https://doi.org/10.1007/1345_2019_59

Performance of the Earth Gravitational Model EGM08 over the Baltic countries [Electronic resource]

Ellmann, Artu; Kaminskis, J.; Parseliunas, E.; Jürgenson, Harli; Oja, Tõnis Geophysical research abstracts 2009 / p. EGU2009-9507 [CD-ROM] https://www.researchgate.net/publication/252195364_Performance_of_the_Earth_Gravitational_Model_EGM08_over_the_Baltic_countries

Pinnavormide mõõdistuspunktide asukohavalikust tulenevate üldistusvigade kvantifitseerimine terrestrialise laserskaneerimise lausandmestiku põhjal

Sobak, Martin; **Ellmann, Artu; Mill, Tarvo** Geodeet 2014 / lk. 84-91 : ill https://artiklid.elnet.ee/record=b2721042*est

A practical software package for computing gravimetric geoid by the least squares modification of Hotine's formula

Abbak, Ramazan Alpay; **Ellmann, Artu;** Ustun, Aydın Earth science informatics 2022 / p. 713-724 <https://doi.org/10.1007/s12145-021-00713-3> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

A precise gravimetric geoid model in a mountainous area with scarce gravity data : a case study in central Turkey

Abbak, Ramazan Alpay; Sjöberg, Lars E.; **Ellmann, Artu;** Ustun, Aydın Studia geophysica et geodaetica 2012 / p. 909-927 : ill <https://link.springer.com/article/10.1007/s11200-011-9001-0>

Precise gravity surveys in South Estonia from 2009 to 2010

Türk, Kristina; Sulaoja, Margis; Oja, Tõnis; **Ellmann, Artu;** Jürgenson, Harli The 8th International Conference Environmental Engineering : May 19-20, 2011, Vilnius, Lithuania : selected papers. Volume III 2011 / p. 1499-1505 : ill

Precise hydrodynamic leveling by using pressure gauges

Liibus, Aive; **Ellmann, Artu; Kõuts, Tarmo;** Jürgenson, Harli Marine geodesy 2013 / p. 138-163 : ill

Põhjamaade Geodeesia Komisjoni töögruppide koosolekud Tallinnas

Ellmann, Artu; Oja, Tõnis Geodeet 2016 / lk. 78-79 : ill http://www.ester.ee/record=b1072198*est

Põhjamaade Geodeesiakomisjoni peaassamblee 2018 Helsingis

Kollo, Karin; **Ellmann, Artu;** Oja, Tõnis; Metsar, Jaanus Geodeet 2018 / lk. 65-67 : fot http://www.ester.ee/record=b1072198*est

Quantification of Baltic Sea Region relative Sea-level rise by using Multi-mission satellite altimetry data and tide gauge sea level series [Online resource]

Liibusk, Aive; Wan, J.; **Ellmann, Artu**; Kuo, C. Y.; Shum, C. K. 26th IUGG General Assembly 2015 : Prague, Czech Republic, Prague Congress Centre, June 22-July 02, 2015 2015 / [1] p

Quantification of hydrodynamic model sea level bias utilizing deep learning and synergistic integration of data sources

Jahanmard, Vahidreza; Hordoir, Robinson; **Delpeche-Ellmann, Nicole Camille**; **Ellmann, Artu** Ocean modelling 2023 / art. 102286 : ill., map <https://doi.org/10.1016/j.ocemod.2023.102286>

Quantification of the reaction of Estonian beaches to changing wave loads = Eesti rannikute reaktsioon muutuvatele lainekoormustele

Eelsalu, Maris 2020 https://www.ester.ee/record=b5368081*est <https://digikogu.taltech.ee/et/Item/f73e001a-2f7c-4832-a4b0-ea10a4894ab6>

Quantifying absolute dynamic topography by synergy of satellite, geoid and hydrodynamic model

Mostafavi, Majid; **Delpeche-Ellmann, Nicole Camille**; **Ellmann, Artu** XXVIII General Assembly of the International Union of Geodesy and Geophysics (IUGG) 2023 <https://doi.org/10.57757/IUGG23-2385>

Rahvusvaheline ehitusgeodeesia konverents INGENIO Prah

Mill, Tarvo; **Ellmann, Artu** Geodeet 2014 / lk. 47-48 : ill https://artiklid.elnet.ee/record=b2721027*est

Rahvusvaheline fotogramm-meetria ja kaugseire kongress Prah

Julge, Kalev; **Ellmann, Artu** Geodeet 2016 / lk. 84-85 : ill http://www.ester.ee/record=b1072198*est

Rahvusvaheline Geodeesia ja Geofüüsika Liidu XXIV Peaassamblee Perugias

Ellmann, Artu; Liibusk, Aive Geodeet 2007 / lk. 54-56 : ill

Rahvusvaheline Maa raskuskiirendusvälja teenistuse konverents IGFS2006 Istanbulis

Ellmann, Artu; Oja, Tõnis Geodeet 2006 / lk. 28-29 https://artiklid.elnet.ee/record=b1019983*est

Rahvusvahelise Geodeesia ja Geofüüsika Liidu (IUGG) XXVII peaassamblee Montrealis

Ellmann, Artu Geodeet 2019 / lk. 49-50 : fot http://www.ester.ee/record=b1072198*est

Rannaprotsesside anatoomia laserskaneerimise skalpelliga

Eelsalu, Maris; **Ellmann, Artu**; Julge, Kalev; Märdla, Silja; Soomere, Tarmo Kaugseire Eestis 2014 : artiklikogumik 2014 / lk. 47-58 : ill., kaart

Rannaprotsesside monitooring aerolaserskaneerimise korduvmõõtmistest

Grünthal, Erko; **Gruno, Anti**; **Ellmann, Artu** Geodeet 2013 / lk. 37-42 : ill

Rannaprotsesside seire aerolaserskaneerimise korduvmõõtmistest

Gruno, Anti; Grünthal, Erko; **Ellmann, Artu** XII Eesti Ökoloogiakonverents, Tartu, 18-19 oktoober 2013 2013

Raskuskiirenduse anomaalvälja ja geoidi mudelpinna täpsustamine Eestis

Ellmann, Artu; Oja, Tõnis; All, Tarmo; Jürgenson, Harli; Kall, Tarmo; Liibusk, Aive Tartu Ülikooli Ilmade Observatooriumi 150. aastapäeva konverentside artiklid 2016 / lk. 152-164 : ill

Realistic coastal dynamic topography by a synergy of satellite altimetry data and marine geoid : [poster]

Ellmann, Artu; Jahanmard, Vahidreza; Varbla, Sander; Mostafavi, Majid; **Delpeche-Ellmann, Nicole Camille** Living Planet Symposium : Bonn, 23-27 May 2022 2022 / 1 p https://express.converia.de/frontend/index.php?page_id=22743&additions_conferenceschedule_action=detail&additions_conferenceschedule_controller=paperList&pid=67137&hash=a1163e52ec54485b30c276db107fa5d86c2ef04bebfeda3ddc6f3cccd2129ff8

Realistic dynamic topography through coupling geoid and hydrodynamic models of the Baltic Sea

Jahanmard, Vahidreza; **Delpeche-Ellmann, Nicole Camille**; **Ellmann, Artu** Continental shelf research 2021 / art. 104421 <https://doi.org/10.1016/j.csr.2021.104421> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Reanalysis of ocean model-based dynamic topography utilizing deep neural network and geoid-referenced observations

Jahanmard, Vahidreza; **Delpeche-Ellmann, Nicole Camille**; **Ellmann, Artu** 2023 Machine Learning And Data Analysis In Oceanography, University of Liège, Belgium 2023 / 1 p [Reanalysis of ocean model-based dynamic topography utilizing deep neural network and geoid-referenced observations](#)

Reconstruction of dynamic topography using cyclostationary empirical orthogonal functions in the Baltic Sea

Mostafavi, Majid; Rajabi-Kiasari, Saeed; Jahanmard, Vahidreza; **Delpeche-Ellmann, Nicole Camille**; **Ellmann, Artu** Nordic Geodetic Commission General Assembly 2022 in Copenhagen : Poster Session 2022 / 25 l. <https://medialib.cmcdn.dk/medialibrary/010C1367-E991-4A33-AB10-1953247E9C23/530AEABD-3A25-ED11-84B6-00155D0B0940.pdf>

Regional geoid computation by least squares modified Hotine's formula with additive corrections

Märdla, Silja; Ellmann, Artu; Agren, Jonas; Sjöberg, Lars E. Journal of geodesy 2018 / p. 253-270 : ill <https://doi.org/10.1007/s00190-017-1061-7> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Regional geoid computation by least squares modified Hotine's formula with additive corrections

Märdla, Silja; Ellmann, Artu; Agren, Jonas; Sjöberg, Lars E. IAG-IASPEI 2017 : Joint Scientific Assembly of the International Association of Geodesy (IAG) and International Association of Seismology and Physics of the Earth's Interior (IASPEI) : Kobe (Japan), July 30 - August 4, 2017 : abstract book 2017 / p. [83] http://www.iag-iaspei-2017.jp/files/IAG-IASPEI2017_abstracts.pdf

Regional geoid modelling by the least squares modified Hotine formula using gridded gravity disturbances = Piirkondlik geoidi modelleerimine vähimruutude meetodil modifitseeritud Hotine valemiga kasutades võrgustatud raskuskiirenduse hälbeid

Märdla, Silja 2017 <https://digi.lib.ttu.ee/ii/79130>

Regional models of the gravity field from terrestrial gravity data of heterogeneous quality and density [Electronic resource]

Märdla, Silja; Oja, Tõnis; **Ellmann, Artu;** Jürgenson, Harli Geophysical research abstracts 2014 / p. EGU2014-168. [CD-ROM]

Relative gravity measurements on ice-covered water bodies

Oja, Tõnis; Bloom, Ahti; **Talvik, Silja;** Jürgenson, Harli; **Ellmann, Artu** 150th Anniversary of the IAG : book of abstracts : September 1-6, 2013, Potsdam 2013 / p. 379

Relative gravity surveys on ice-covered water bodies

Oja, Tõnis; Türk, Kristina; **Ellmann, Artu;** Gruno, Anti; Bloom, Ahti; Sulaoja, Margis The 8th International Conference Environmental Engineering : May 19-20, 2011, Vilnius, Lithuania : selected papers. Volume III 2011 / p. 1394-1401 : ill

Release note for the BSCD2000 height transformation grid

Liebsch, Gunter; Schwabe, Joachim; **Varbla, Sander;** Agren, Jonas; Teitsson, Hergeir; **Ellmann, Artu;** Forsberg, Rene; Strykowski, Gabriel; Bilker-Koivula, Mirjam; Liepinš, Ivars The international hydrographic review 2023 / p. 194-199 <https://doi.org/10.58440/ihr-29-2-n11>

Report on availability and re-processing procedure of the historical marine gravity data of the southern and eastern Baltic Sea

Wilde-Piorko, M.; Bauer, T.; Bilker-Koivula, M.; **Ellmann, Artu;** Kaminskis, J.; Krynski, J.; Olsson, P.-A.; Olszak, T.; Paršeliunas, E. K.; Rosowiecka, O.; Schwabe, J.; Strykowski, G.; Szlachowska, M.; Szulwic, J.; Tomczak, A.; **Varbla, Sander;** Zuševics, V. 2023 https://interreg-baltic.eu/wp-content/uploads/2023/10/report_historical_final.pdf

Report on modern marine gravity data for selected areas of southern and eastern Baltic Sea

Wilde-Piorko, Monika; Bilker-Koivula, Mirjam; Dykowski, Przemysław; **Ellmann, Artu;** Kaminskis, Janis; Liepinš, Ivars; Lapinski, Kamil; Michalowski, Rafal; Nilsson, Tobias; Olsson, Per-Anders 2023 https://interreg-baltic.eu/wp-content/uploads/2023/10/report_modern_final.pdf

Retrieval of directional power spectral density and wave parameters from airborne LiDAR point cloud

Jahanmard, Vahidreza; Varbla, Sander; Delpeche-Ellmann, Nicole Camille; Ellmann, Artu Ocean engineering 2022 / art. 112694 <https://doi.org/10.1016/j.oceaneng.2022.112694> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Riigi geodeetilise võrgu I klassi kordusmõõtmised 2017

Kollo, Karin; Metsar, Jaanus; **Ellmann, Artu** Geodeet 2017 / lk. 19-23 : ill http://www.ester.ee/record=b1072198*est

Riikliku GNSS püsijaamade võrgu kaasajastamine

Metsar, Jaanus; Kollo, Karin; **Ellmann, Artu** Geodeet 2016 / lk. 49-52 : ill http://www.ester.ee/record=b1072198*est

Riiklikud GNSS-püsijaamad üle-euroopalise EUREFi tihendusvõrgu osana

Metsar, Jaanus; Kollo, Karin; Pihlak, Priit; **Ellmann, Artu** Geodeet 2019 / lk. 7-11 : ill http://www.ester.ee/record=b1072198*est <http://egu.ee/wp-content/uploads/2020/04/Pages-7-kuni-11-GNSS.pdf>

River water level monitoring from satellite radar altimetry multi missions a case study of the Amazon and Danube rivers

Mostafavi, Majid; Shirzad, R.; **Delpeche-Ellmann, Nicole Camille; Ellmann, Artu** 12th Coastal Altimetry Workshop : Coastal Altimetry Training Course, 4-7 February, 2020 : European Space Agency ESRI, Frascati, Italy : abstracts 2020 / p. 34-35 <https://az659834.vo.msecnd.net/eventsairwesteuprod/production-nikal-public/ae128dad984c40168397660cc8d0ede7>

Road deformation monitoring using unmanned aerial vehicles

Varbla, Sander; Ellmann, Artu; Puust, Raido 30th International Baltic Road Conference August 23-24, 2021 : Abstracts 2021 / p. 58 https://balticroads.org/wp-content/uploads/2021/08/BRC_Abstacts_2021_V2.pdf

Road embankment test sections over soft peat layer, Võõbu, Estonia [Online resource]

Forsman, Juha; Dettenborn, Taavi; Skepast, Peeter; Mets, Mait; Olep, Mattias; **Ellmann, Artu**; Vallas, Ivo; Tõnts, Taavi; **Kontson, Karli** Historical Experience and Challenges of Geotechnical Problems in Baltic Sea Region : Vilnius, Lithuania, 22-24 September 2016 : proceedings of 13th Baltic Sea Geotechnical Conference 2016 / p. [302]-307 : ill <http://doi.org/10.3846/13bsgc.2016.046>

Road surface surveying using terrestrial laser scanner and total station technologies

Mill, Tarvo; Ellmann, Artu; Uueküla, Katrin; Joala, Vahur The 8th International Conference Environmental Engineering : May 19-20, 2011, Vilnius, Lithuania : selected papers. Volume III 2011 / p. 1142-1147 : ill

Robert Livländer osales ka Vabadussõjas : [TTÜ professor ja rektor 1941-1944]

Ellmann, Artu Mente et Manu 2008 / lk. 6 https://www.ester.ee/record=b2222990*est

Sander Varbla kaitses tehnikateaduste doktori kraadi

Ellmann, Artu Geodeet 2024 / lk. 42-43 : fot https://www.ester.ee/record=b1072198*est

Satelliitaltimeetria andmetel põhineva merepinna kõrguste täpsuse tuvastamine erinevate andmestike koosmõjul

Heinoja, Lenne-Liisa; Delpeche-Ellmann, Nicole Camille; Ellmann, Artu Geodeet 2022 / lk. 26-30 : ill
http://www.ester.ee/record=b1072198*est

Satellite altimetry performance verified to enhanced hydrodynamic model of the Baltic Sea

Mostafavi, Majid; Delpeche-Ellmann, Nicole Camille; Ellmann, Artu Living Planet Symposium : Bonn, 23-27 May 2022 2022 / 1 p
https://express.converia.de/frontend/index.php?page_id=22633&additions_conferenceschedule_action=detail&additions_conferenceschedule_controller=paperList&pid=66983&hash=2781a43409d1dcbc2374d7818af0d07c0904d92d56f69ccfa7a7a5c1549b986e

Sea level measurements by a low-cost GNSS sensor-equipped marine buoy

Koobak, Johanna; Varbla, Sander; Ellmann, Artu Nordic Geodetic Commission General Assembly 2022 in Copenhagen : Poster Session 2022 / 37 p <https://medialib.cmcn.dk/medialibrary/010C1367-E991-4A33-AB10-1953247E9C23/530AEABD-3A25-ED11-84B6-00155D0B0940.pdf>

Sea level time series gap-filling with satellite altimetry using a bi-directional SARIMA model

Mostafavi, Majid; Delpeche-Ellmann, Nicole Camille; Ellmann, Artu 2023 Machine Learning And Data Analysis In Oceanography, University of Liège, Belgium 2023 / 1 p [Sea level time series gap-filling with satellite altimetry using a bi-directional SARIMA model](#)

Secondary indirect effects in gravity anomaly data inversion or interpretation

Vajda, Peter; Vanicek, P.; Novak, Pavel; Tenzer, Robert; **Ellmann, Artu** Journal of geophysical research 2007 / p. B06411 [11] p. : ill

Shipborne GNSS acquisition of sea surface heights in the Baltic Sea

Liibusk, Aive; **Varbla, Sander; Ellmann, Artu; Vahter, Kaimo; Uiboupin, Rivo; Delpeche-Ellmann, Nicole Camille** Journal of geodetic science 2022 / 21 p. : ill., map <https://doi.org/10.1515/jogs-2022-0131> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Shipborne GNSS-determined sea surface heights using geoid model and realistic dynamic topography

Varbla, Sander; Liibusk, Aive; **Ellmann, Artu** Remote sensing 2022 / art. 2368, 30 p. : ill <https://doi.org/10.3390/rs14102368> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Small-footprint airborne laser scanner data for validating marine geoid models

Gruno, Anti; Liibusk, Aive; **Ellmann, Artu**; Oja, Tõnis; Vain, Ants; Jürgenson, Harli 2013 European Space Agency Living Planet Symposium : [programme and abstracts] 2013 / [1] p

A spectral modelling of the gravitational contribution of the far-zone topography

Tenzer, Robert; Abdalla, Ahmed; Novak, Pavel; Vajda, Peter; **Ellmann, Artu** Geophysical research abstracts 2011 / p. EGU2011-9674

Staatilised GNSS-möötmised Eesti geodeetilise võrgu I klassi punktidel

Metsar, Jaanus; Kollo, Karin; **Ellmann, Artu**; Pihlak, Priit; Rüdja, Andres Geodeet 2019 / lk. 12-14 : ill
http://www.ester.ee/record=b1072198*est

Status of the FAMOS collaboration to improve the Baltic Sea gravity data and geoid model ; S3-O2

Agren, Jonas; Olsson, Per-Anders; Schwabe, Joachim; **Ellmann, Artu** International Symposium Gravity, Geoid and Height Systems 2 : GGHS2018 : "Gravity Field Of The Earth" : The 2nd joint meeting of the International Gravity Field Service and Commission 2 of the International Association of Geodesy, Copenhagen, Denmark, Sept. 17-21, 2018 : abstract book 2018 / p. 42

Status report for the EUREF Working Group "European Unified Height Reference"

Schwabe, Joachim; Sacher, Martina; Liebsch, Gunter; Lidberg, Martin; Denker, Heiner; Ågren, Jonas; Alfredson, Anders; Barzaghi, Riccardo; **Ellmann, Artu; Varbla, Sander** Abstracts EUREF 2023 2023 / p. 9-10 <https://www.chalmers.se/api/media/>

[url=https://cms.www.chalmers.se/Media/vifgxhe/abstract_booklet_euref_2023_may22.pdf?](https://cms.www.chalmers.se/Media/vifgxhe/abstract_booklet_euref_2023_may22.pdf?)

Sub-commission 2.2 : Methodology for geoid and physical weight systems

Agren, Jonas; **Ellmann, Artu** IAG Reports 2015-2019 : Commission 2 - Gravity Field 2019 / p. 33-38

https://iag.dgfi.tum.de/fileadmin/IAG-docs/Travaux2019/02_Commission_2_2015-2019.pdf

Symposium of the IAG Reference Frame Sub-Commission for Europe (EUREF) in Tallinn, May 22-24, 2019

Kollo, Karin; **Ellmann, Artu**; Poutanen, Markku IAG Newsletter 2019 / p. 6-7 : phot <https://iag-aig.org/doc/5d29c4313d37a.pdf>

Synergy of in-situ and hydrodynamic modelling to develop machine learning strategies for dynamic vertical Reference for Maritime and Offshore Engineering

Delpeche-Ellmann, Nicole Camille; Ellmann, Artu XXV/III General Assembly of the International Union of Geodesy and Geophysics (IUGG) 2023 <https://doi.org/10.57757/IUGG23-3653>

Taevalaotuse atraktiivseim satelliit

Ellmann, Artu Horisont 2010 / 4, lk. 18-24 : ill https://artiklid.elnet.ee/record=b2153594*est

Tallinna teede ja tänavate katendite deformatsioonide ja katete kulumise määramine, lähtudes liiklussagedusest ja teekatendi konstruktsioonist 2. etapp : aruanne

Aavik, Andrus; Ellmann, Artu; Varbla, Sander; Rõuk, Harri 2018 https://uuringud.tallinnlv.ee/file_download/830

Tallinna Tehnikaülikooli geodeesia magistriõpe

Ellmann, Artu Geodeet 2016 / lk. 39-40 http://www.ester.ee/record=b1072198*est

Teetasapinna mõõdistamine terrestrial laserskaneerimise ja elektrontahhümeetilise mõõdistamise tehnoloogiaga

Mill, Tarvo; Ellmann, Artu; Uueküla, Katrin; Joala, Vahur Geodeet 2011 / lk. 81-85 : ill

Tehnikaülikooli teadlased aitavad viia Läänemere riike ühele tasandile [Võrguväljaanne]

novaator.err.ee 2019 / fot [Tehnikaülikooli teadlased aitavad viia Läänemere riike ühele tasandile](https://artiklid.elnet.ee/record=b2153594*est)

Terrestrial laser scanning assessment of generalization errors in conventional topographic surveys

Sobak, Martin; **Ellmann, Artu; Mill, Tarvo** Geodesy and cartography 2015 / p. 15-24 : ill

Terrestrial laser scanning for the monitoring of bridge load tests - two case studies

Lõhmus, Hannes; Ellmann, Artu; Märdla, Silja; Idnurm, Siim Survey review 2018 / p. 270-284 : ill

<https://doi.org/10.1080/00396265.2016.1266117> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Terrestrial laser scanning technology for deformation monitoring of a large suspension roof structure

Mill, Tarvo; Ellmann, Artu INGE0 2104 : proceedings of the 6th International Conference on Engineering Surveying : Prague, Czech Republic, April 03-04, 2014 2014 / p. 179-186 : ill

Terrestrial laserskaneerimise kaasamine sildade koormus-katsetuste geodeetilistel uuringutel

Lõhmus, H.; Ellmann, Artu; Märdla, Silja Geodeet 2014 / lk. 32-42 https://artiklid.elnet.ee/record=b2721021*est

Testing Stokes-Helmert geoid model computation on a synthetic gravity field : experiences and shortcomings

Vanicek, Petr; **Ellmann, Artu** Studia geophysica et geodaetica 2013 / p. 369-400 : ill

The 5 mm geoid model for Estonia computed by the least squares modified Stokes's formula

Ellmann, Artu; Märdla, Silja; Oja, Tõnis Survey review 2020 / p. 352-372 : ill <https://doi.org/10.1080/00396265.2019.1583848> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

The Earth's gravity field components of the differences between gravity disturbances and gravity anomalies

Tenzer, Robert; **Ellmann, Artu**; Novak, Pavel; Vajda, Peter Observing our changing Earth : proceedings of the 2007 IAG General Assembly : Perugia, Italy, July 2-13, 2007 2009 / p. 155-159 : ill

The NKG2015 gravimetric geoid model for the Nordic-Baltic region [Online resource]

Agren, Jonas; Strykowski, Gabriel; **Märdla, Silja; Ellmann, Artu** 1st Joint Commission 2 and IGFS Meeting International Symposium on Gravity, Geoid and Height Systems 2016 : September 19-23, 2016, Thessaloniki, Greece : program 2016 / [2] p <http://gghs2016.com/presentation-info/?presentation=721>

The relation between the rigorous and Helmert's definitions of orthometric heights

Santos, M.C.; Vanicek, P.; Featherstone, W.E.; Kingdon, R.; **Ellmann, Artu**; Martin, B.-A.; Kuhn, M.; Tenzer, Robert Journal of geodesy 2006 / 12, p. 691-704

The Third Swiss-Baltic Geodetic Science Week in Tallinn

Brucas, Domantas; Buga, Arunas; **Ellmann, Artu** Geodezija ir kartografija = Geodesy and cartography 2009 / 1, p. 39-41 : phot

Towards realistic dynamic topography from coast to offshore by incorporating hydrodynamic and geoid models

Jahanmard, Vahidreza; Delpeche-Ellmann, Nicole Camille; Ellmann, Artu Ocean modelling 2022 / art. 102124

<https://doi.org/10.1016/j.ocemod.2022.102124> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Towards unification of terrestrial gravity data sets in Estonia

Ellmann, Artu; All, Tarmo; Oja, Tõnis Estonian journal of earth sciences 2009 / 4, p. 229-245 : ill

https://artiklid.elnet.ee/record=b1943921*est

Transfer of heights to islands in West-Estonian Archipelago using hydrodynamic levelling

Liibus, Aive; Kõuts, Tarmo; Ellmann, Artu IEEE/OES Baltic 2012 International Symposium 2012 / [8] p. : ill

https://www.researchgate.net/publication/261200033_Transfer_of_heights_to_islands_in_West-Estonian_Archipelago_using_hydrodynamic_levelling

Treatment of tide gauge time series and marine GNSS measurements for vertical land motion with relevance to the implementation of the Baltic Sea chart datum 2000

Varbla, Sander; Ågren, Jonas; Ellmann, Artu; Poutanen, Markku Remote sensing 2022 / art. 920, 24 p. : ill

<https://doi.org/10.3390/rs14040920> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

TTÜ aastal 2020 : töögrupi visioon

Aav, Riina; Ellmann, Artu; Karilaid, Ivo; Kattel, Rainer; Lõugas, Tiina; Petlenkov, Eduard; Veinthal, Renno; Valgma, Ingo Mente et Manu 2009 / 16. veebr., lk. 3 : fot https://www.ester.ee/record=b1242496*est

24 years sea level trend of Baltic Sea using resampled machine learning satellite altimetry data : poster

Mostafavi, Majid; Delpeche-Ellmann, Nicole Camille; Ellmann, Artu Living Planet Symposium : Bonn, 23-27 May 2022 2022 / 1 p

https://express.converia.de/frontend/index.php?page_id=22770&additions_conferenceschedule_action=detail&additions_conferenceschedule_controller=paperList&pid=66993&hash=1a58b51e563fd3a889a69bc2839cb84bb1cbe77506963ef2c9c35a9d46c45678

24 years sea level trend of Gulf of Finland using resampled machine learning satellite altimetry data [Poster presentation]

Mostafavi, Majid; Delpeche-Ellmann, Nicole Camille; Ellmann, Artu The Gulf of Finland Science Days 2021 "New start for the Gulf of Finland co-operation" : Estonian Academy of Sciences, Tallinn, 29-30 November 2021 : abstracts 2021 / p. 64

<https://www.gulfoffinland.fi>

Ujednolicone morskie mapy grawimetryczne południowego i wschodniego Bałtyku dla współczesnych zastosowań 3D w geodezji morskiej, geologii i nawigacji (BalMarGrav)

Wilde-Piorko, Monika; Bauer, Tobias; Bilker-Koivula, Mirjam; Dykowski, Przemysław; Ellmann, Artu; Varbla, Sander I kongres geoinformacyjny : X ogólnopolskie sympozjum geoinformacyjne : „Współczesne technologie geoinformacyjne w modelowaniu przestrzeni” Kraków, 25 – 27 X 2023 : streszczenia referatów 2023 / 2 p https://kongres-geo.pl/application/files/3316/9822/3649/ksiega_abstraktow_v03.pdf

UNB application of Stokes-Helmert's approach to geoid computation

Ellmann, Artu; Vanicek, P. Journal of geodynamics 2007 / p. 200-213 : ill

<https://www.sciencedirect.com/science/article/pii/S0264370706000706>

Underground oil shale mine surveying using handheld mobile laser scanner

Kütimets, Kaia; Ellmann, Artu; Väli, Erik; Kanter, Sander Oil shale 2021 / p. 42–64 <https://doi.org/10.3176/oil.2021.1.03> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Unmanned aerial vehicle surveying for monitoring road construction earthworks

Julge, Kalev; Ellmann, Artu; Kõök, Romet The Baltic journal of road and bridge engineering 2019 / p. 1-17 : ill

http://www.ester.ee/record=b2222369*est <https://doi.org/10.7250/bjrbe.2019-14.430> <https://journals.vgtu.lt/index.php/BJRBE> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Updated tide gauge records for specifying mean sea level estimates along the Estonian coast

Kollo, Karin; Ellmann, Artu; Kõuts, Tarmo; Vahter, Kaimo Geophysical research abstracts 2019 / p. EGU2019-15931

<https://meetingorganizer.copernicus.org/EGU2019/EGU2019-15931.pdf>

Use of geosynthetics for roadbase strengthening – case study in swampy area

Aavik, Andrus; Ellmann, Artu; Paabo, Priit XXVIII International Baltic Road Conference : conference proceedings : Lithuania, Vilnius, 26-28 August, 2013 2013 / p. 1-18 : ill

Use of high resolution sea level measurements for height transfer in the West-Estonian archipelago

Liibus, Aive; Ellmann, Artu; Kõuts, Tarmo The 8th International Conference Environmental Engineering : May 19-20, 2011, Vilnius, Lithuania : selected papers. Volume III 2011 / p. 1374-1381 : ill

Using airborne laser scanning profiles to validate marine geoid models [Electronic resource]

Julge, Kalev; Gruno, Anti; Ellmann, Artu; Liibus, Aive; Oja, Tõnis Geophysical research abstracts 2014 / p. EGU2014-412. [CD-ROM]

Using high-resolution spectral models of gravity anomaly for computing stochastic modifications of Stokes's formula

Ellmann, Artu Computers & geosciences 2012 / p. 188-190 : ill

Utilising airborne laser scanning and geoid model for examining marine processes

Varbla, Sander; Ellmann, Artu; Delpeche-Ellmann, Nicole Camille Abstracts : [BSSC 2019] 2019 / p. 166

https://www.su.se/polopoly_fs/1.446756.1566224624!/menu/standard/file/abstracts_A5_ny.pdf

Utilizing airborne laser scanning and geoid model for near-coast improvements in sea surface height and marine dynamics

Varbla, Sander; Ellmann, Artu; Delpeche-Ellmann, Nicole Camille Journal of coastal research 2020 / p. 1339-1343

<https://doi.org/10.2112/SI95-257.1> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Uuenenud geodeesia õppekava Tallinna Tehnikaülikoolis

Ellmann, Artu Geodeet 2009 / lk. 72-80 : fot

Vajumisreperite stabiilsuse uurimine liinirajatistel

Kala, Vello; Ellmann, Artu; Šapošnitšenko, Kirill Geodeet 2012 / lk. 23-29 : ill https://artiklid.elnet.ee/record=b2553420*est

Validation of conventional and retracked Sentinel-3 observations along the Norwegian coast

Mostafavi, Majid; Jahanmard, Vahidreza; Rajabi-Kiasari, Saeed; Delpeche-Ellmann, Nicole Camille; Ellmann, Artu Nordic Geodetic Commission General Assembly 2022 in Copenhagen : Poster Session 2022 / 27 I.

<https://medialib.cmcdn.dk/medialibrary/010C1367-E991-4A33-AB10-1953247E9C23/530AEABD-3A25-ED11-84B6-00155D0B0940.pdf>

Validation of marine geoid models by profile-wise GNSS measurements on ice surface

Liibus, Aive; Ellmann, Artu Marine geodesy 2015 / p. 314-326 : ill

Validation of marine geoid models by utilizing hydrodynamic model and shipborne GNSS profiles

Varbla, Sander; Ellmann, Artu; Delpeche-Ellmann, Nicole Camille Marine geodesy 2020 / p. 134-162

<https://doi.org/10.1080/01490419.2019.1701153> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Validation of multi-satellite altimetry data utilizing a high-resolution marine geoid for the Baltic Sea

Mostafavi, Majid; Ellmann, Artu; Delpeche-Ellmann, Nicole Camille 12th Coastal Altimetry Workshop : Coastal Altimetry Training Course, 4-7 February, 2020 : European Space Agency ESRI, Frascati, Italy : abstracts 2020 / p. 27

<https://az659834.vo.msecnd.net/eventsairwesteuprod/production-nikal-public/ae128dad984c40168397660cc8d0ede7>

Validation of the new Earth gravitational model EGM08 over the Baltic countries

Ellmann, Artu Gravity, Geoid and Earth Observation : IAG Commission 2: Gravity Field, Chania, Crete, Greece, 23-27 June 2008 2010 / p. 489-496

Validation of the Sentinel-3A SRAL altimeter data for the coastal waters of the Baltic Sea

Delpeche-Ellmann, Nicole Camille; Ellmann, Artu; Birgiel, Elzbieta IUGG 2019 : abstract book 2019 / [1] p., abstract: JM09p-113

<http://iugg2019montreal.com/abstract-book.html>

Vello Kala 75

Ellmann, Artu; Gruno, Anti Geodeet 2010 / lk. 93-94 : portr

Vello Kala 80

Ellmann, Artu; Randlepp, Arne Geodeet 2016 / lk. 95 : portr http://www.ester.ee/record=b1072198*est

Vello Kala 85

Ellmann, Artu Geodeet 2020 / lk. 61 : fot http://www.ester.ee/record=b1072198*est

Verifying hydrodynamic levelling results through improved land uplift rates in West-Estonian archipelago [Electronic resource]

Liibus, Aive; Ellmann, Artu; Kall, Tarmo; Jürgenson, Harli; Kollo, Karin International Workshop : Sea-Level and Adjustment of the Land Observations, and Models (SLALOM 2012) in Athens, Greece, March 19-22, 2012 : abstract book 2012 / p. 32 [CD-ROM]

Vilniuses naaberriikide geodeesia-alase teadustegevusega tutvumas

Märdla, Silja; Julge, Kalev; Ellmann, Artu Geodeet 2014 / lk. 51-52 : fot https://artiklid.elnet.ee/record=b2721031*est

Õpik "Kõrgem geodeesia. Polügonomeetria ja kõrgtäpne nivelleerimine"

Ellmann, Artu Geodeet 2016 / lk. 40 : ill http://www.ester.ee/record=b1072198*est

Ühe stereoautograafi lugu

Randlepp, Arne; Ellmann, Artu Geodeet 2013 / lk. 86-87 : ill

Геодезия : руководство по лабораторному практикуму. I

2011 http://www.ester.ee/record=b2728304*est

Руководство по геодезической учебной практике

2013 http://www.ester.ee/record=b2947695*est