

Absolute Dynamic Topography : corrected Nemo-Nordic Model for the Baltic Sea

Jahanmard, Vahidreza; Delpeche-Ellmann, Nicole Camille; Ellmann, Artu 2023 <https://doi.org/10.17882/96784>

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 geodeetilist-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
https://www.researchgate.net/publication/226489398_An_Attempt_for_an_Amazon_Geoid_Model_Using_Helmert_Gravity_Anomaly

Applicability of limiting phase angle temperatures for measuring the low temperature performance and aging of asphalt binders = Piiravate faasinurga temperatuuride rakendatavus bituumenite madala temperatuuri ja vananemiselase toimivuse mõõtmiseks

Lill, Kristjan 2024 https://www.ester.ee/record=b5712446*est <https://digikogu.taltech.ee/et/Item/7e247788-70ef-4a2b-b0d1-d72c16a9b993>
<https://doi.org/10.23658/taltech.70/2024>

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 / 1 p <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> https://www.ester.ee/record=b4744263*est

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 l. <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 (LPS22) 2022 / 1 p
<https://www.lps22.eu/>

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> [Journal metrics at Scopus](#) [Article at Scopus](#)

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 / 1 p <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;** Tönnisson, 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;** Tönnisson, 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;** Tönnisson, 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 / 1 p [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> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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 <https://doi.org/10.3846/bjrbe.2014.28> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Determining regional sea surface topography by GNSS surveys on ice

Liibusk, 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 <https://doi.org/10.1117/12.2029189> [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

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 geodetic and machine learning strategies

Ellmann, Artu; Delpeche-Ellmann, Nicole Camille; Varbla, Sander; Rajabi Kiasari, Saeed; Jahanmard, Vahidreza; Kupavõh, Aleksei EGU General Assembly 2025 2025 / art. EGU25-20596 <https://doi.org/10.5194/egusphere-egu25-20596>

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 pavement temperature estimation models and the impact of climate change on pavement temperatures in Estonia = Teekatte temperatuuride arvutamise mudelite arendamine ja kliimamuutuste mõju Eesti teekatete temperatuuridele

Kontson, Karli 2025 https://www.ester.ee/record=b5744381*est <https://digikogu.taltech.ee/et/Item/9c8d3c4e-b1f5-42b4-8bda-77fea5c05c0b> <https://doi.org/10.23658/taltech.27/2025>

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 saavutamise 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>

Documentation of the BSCD2000 height reference grid

Schwabe, J.; Ågren, J.; Liebsch, G.; **Varbla, Sander;** Teitsson, H.; Strykowski, G.; **Ellmann, Artu;** Forsberg, R.; Bilker-Koivula, M.; Liepiņš, I. 2023

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

https://www.researchgate.net/publication/228764575_Downward_continuation_of_airborne_gravity_data_using_highresolution_global_geopotential_models

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

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

Eesti geodeetid rahvusvahelises teaduses

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

https://artiklid.elnet.ee/record=b2883052*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

Liibus, 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

Kala, Vello; **Varbla, Sander**; Kakko, Mairo; **Ellmann, Artu** 2025 https://www.ester.ee/record=b5756579*est

<https://digikogu.taltech.ee/et/Item/069877a2-ba55-4dec-8cf4-65d08f60bd4b> <https://doi.org/10.23658/dy4b-gq54>

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 of swot sea level data in the coastal areas of the Baltic Sea

Kupavõh, Aleksei; Delpeche-Ellmann, Nicole Camille; Ellmann, Artu 30 years of progress in radar altimetry symposium, Montpellier, France, 2-7. Sept. 2024 : Abstract book 2024 / p. 213, art. 426

<https://az659834.vo.msecnd.net/eventsairwesteuprod/production-nikal-public/338507f0dac84686b1d40a263ba347c6>

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> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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 satellite altimetry (SWOT) sea level data in the coastal areas of the Baltic Sea

Kupavõh, Aleksei; Delpeche-Ellmann, Nicole Camille; Ellmann, Artu; Soomere, Tarmo Journal of coastal research 2024 / p. 534-538 <https://doi.org/10.2112/JCR-SI113-105.1>

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 retracers and hydrodynamic models sing 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 ESRIN, 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 <https://link.springer.com/article/10.1007/s11200-011-0004-7>

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 machinelearning 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> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Forecasting of Sea Level Extremes using Deep Learning and Extreme Value Analysis
Delpeche-Ellmann, Nicole Camille; Rajabi-Kiasari, Saeed; Soomere, Tarmo; Ellmann, Artu EGU General Assembly 2025 2025 / art. EGU25-13350 <https://meetingorganizer.copernicus.org/EGU25/EGU25-13350.html> <https://doi.org/10.5194/egusphere-egu25-13350>

Forecasting sea level maxima using machine learning models in the Baltic Sea
Rajabi-Kiasari, Saeed; Delpeche-Ellmann, Nicole Camille; Ellmann, Artu International Liège Colloquium 2024 : Ocean Extremes 2024 / 1 p https://gher-uliege.github.io/liege-colloquium-2024/abstracts/2024-01-26_12:01:45_IP_193.40.250.130.pdf

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>

Fourier neural operators for emulating ocean models : Towards a knowledge-driven machine learning
Jahanmard, Vahidreza; Ellmann, Artu; Delpeche-Ellmann, Nicole Camille EGU General Assembly 2025 2025 / art. EGU25-4354 <https://doi.org/10.5194/egusphere-egu25-4354>

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> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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

Geodeesikonverentsid 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 <https://doi.org/10.3846/bjrbe.2015.03> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

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; Argen, 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 (LPS22) 2022 / 1 p <https://www.lps22.eu/>

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 Teadusmõtte 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_Abstracts_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 <https://link.springer.com/article/10.1007/s11200-008-0003-5>

GNSS - globaalne satelliitnavigatsioonisüsteem geodeetilise täpsusega asukohamääranguks : praktilised ülesanded

Ellmann, Artu; Kall, Tarmo; Kollo, Karin; Liibusk, 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; Liibusk, 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 <https://link.springer.com/article/10.1007/s11200-008-0004-4>

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

https://www.researchgate.net/publication/251105369_Harmonic_Continuation_and_Gravimetric_Inversion_of_Gravity_in_Areas_of_Negative_Geodetic_Heights

IAG Euroopa referentsraamistike allkomisjoni EUREF Sümpoosion Tallinnas

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

The Impact of Climate Change to Pavement Temperatures and Asphalt Binder Grade Selection in Estonia Based on Different Climate Change Scenarios

Kontson, Karli; Lill, Kristjan; Ellmann, Artu; Aavik, Andrus The Baltic Journal of Road and Bridge Engineering 2025 / p. 94-113
<https://doi.org/10.7250/bjrbe.2025-20.655>

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 XLI-B1 2016 / p. 633-638 : ill <https://doi.org/10.5194/isprs-archives-XLI-B1-633-2016> [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

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>

Instantaneous sea surface height prediction using satellite altimetry and deep learning

Rajabi-Kiasari, Saeed; Delpeche-Ellmann, Nicole Camille; Ellmann, Artu Living Planet Symposium (LPS25) 2025 <https://lps25.esa.int/>

Integrating satellite altimetry and deep learning for enhanced sea level forecasting

Rajabi-Kiasari, Saeed; Delpeche-Ellmann, Nicole Camille; Ellmann, Artu EGU General Assembly 2025 2025 / art. EGU25-9951 <https://meetingorganizer.copernicus.org/EGU25/EGU25-9951.html> <https://doi.org/10.5194/egusphere-egu25-9951>

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> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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.cmcn.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, Kalev 2018 <https://digi.lib.ttu.ee/i/?9288> https://www.ester.ee/record=b4760989*est

Laser scanning reveals detailed spatial structure of sandy beaches
Eelsalu, Maris; Julge, Kalev; 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 https://artiklid.elnet.ee/record=b2803006*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> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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.cmcn.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
https://artiklid.elnet.ee/record=b2802987*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
https://artiklid.elnet.ee/record=b2831828*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, Erko; **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 / 1 p <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 (LPS22) 2022 / 1 p <https://www.lps22.eu/>

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 https://link.springer.com/chapter/10.1007/978-3-642-10634-7_3

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 https://www.researchgate.net/publication/226879587_On_Evaluation_of_the_Mean_Gravity_Gradient_Within_the_Topography

On the development of the new Nordic gravimetric geoid model NKG2015

Ågren, 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

Ågren, 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 <https://doi.org/10.1117/1.JRS.11.044003> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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 <https://doi.org/10.1117/1.JRS.8.083573> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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

The potential of SWOT altimetry data for validating the accuracy of marine geoidmodels in the Baltic Sea

Kupavõh, Aleksei; **Ellmann, Artu**; **Delpeche-Ellmann, Nicole Camille**; **Varbla, Sander** GGHS2024 : Gravity, Geoid and Height Systems : Book of Abstracts 2024 / p. 18-19 <https://www.gghs2024.com/appsfiles/go/boa/Book-of-Abstracts.pdf?v=1725460868>

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

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

<https://doi.org/10.1080/01490419.2013.771594> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Põhjamaade Geodeesia Komisjoni töögruppide koosolekud Tallinnas

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

https://artiklid.elnet.ee/record=b2802986*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

Quality evaluation of sizeable surveying-industry-produced terrestrial laser scanning point clouds that facilitate building information modeling - a case study of seven point clouds

Varbla, Sander; Puust, Raido; **Ellmann, Artu** Buildings 2024 / art. 3371 <https://doi.org/10.3390/buildings14113371> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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 INGEO Prahás

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

Rahvusvaheline fotogramm-meetria ja kaugseire kongress Prahás

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

https://artiklid.elnet.ee/record=b2802991*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

Ellmann, Artu; Jahanmard, Vahidreza; Varbla, Sander; Mostafavi, Majid; Delpeche-Ellmann, Nicole Camille Living Planet Symposium (LPS22) 2022 / 1 p <https://www.lps22.eu/>

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](#)

Recent geodetic developments in Estonia

Ellmann, Artu; Rüdja, Andres; Sarapik, Margus; Pärtna, Jüri; Löpp, Veiko Сборник статей по итогам международной научно-технической конференции, посвященной 230-летию основания МИИГАиК : приложение к журналу "Известия ВУЗов. Геодезия и аэрофотосъемка" 2009 / с. 33-39 : ил

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. 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 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 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/?9130> https://www.ester.ee/record=b4749552*est

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, Przemyslaw; 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

Report on the homogenized historical marine gravity data of the southern and eastern Baltic Sea

Wilde-Piorko, M.; Schwabe, J.; Strykowski, G.; Varbla, Sander; Bauer, Tobias; Bilker-Koivula, Mirjam; Dykowski, P.; Ellmann, Artu; Josefsson, Ö.; Kaminskis, J. 2024 https://interreg-baltic.eu/wp-content/uploads/2024/11/report_homogenized_final.pdf

Reprocessing, validation and homogenization of historical marine gravity data from the southern and eastern Baltic Sea - the BalMarGrav project

Wilde-Piorko, Monika; Schwabe, Joachim; Szulwic, J.; Olsson, Per-Anders; Tomczak, A.; Bilker-Koivula, Mirjam; Rosowiecka, O.; Kaminskis, Janis; **Ellmann, Artu**; Strykowski, Gabriel; Parseliunas, E.; Zusevics, V.; Andersen, O. GGHS2024 : Gravity, Geoid and Height Systems : Book of Abstracts 2024 / p. 165-166 <https://www.gghs2024.com/appsfiles/go/boa/Book-of-Abstracts.pdf?v=1726041225>

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
https://artiklid.elnet.ee/record=b2831822*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 ESRIN, 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_Abstracts_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 derived dynamic topography using high-resolution geoid model with synergized sealevel data sources

Kupavõh, Aleksei; Delpeche-Ellmann, Nicole Camille; Ellmann, Artu 30 years of progress in radar altimetry symposium, Montpellier, France, 2-7. Sept. 2024 : Abstract book 2024 / p. 184-185, art. 362
<https://az659834.vo.msecnd.net/eventsairwesteuprod/production-nikal-public/338507f0dac84686b1d40a263ba347c6>

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

Mostafavi, Majid; Delpeche-Ellmann, Nicole Camille; Ellmann, Artu Living Planet Symposium (LPS22) 2022 / 1 p
<https://www.lps22.eu/>

Sea level forecasting using deep recurrent neural networks with high-resolution hydrodynamic model

Rajabi-Kiasari, Saeed; Ellmann, Artu; Delpeche-Ellmann, Nicole Camille Applied ocean research 2025 / art. 104496
<https://doi.org/10.1016/j.apor.2025.104496>

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

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-mõõtmised 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; Agren, 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?

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

Schwabe, Joachim; Sacher, Martina; Liebsch, Gunter; Lidberg, Martin; Denker, Heiner; Ågren, Jonas; Alfredsson, Anders; Barzaghi, Riccardo; Bilker-Koivula, Mirjam; **Ellmann, Artu; Varbla, Sander** EUREF Symposium 2025 : Abstracts Book 2025 / p. 14 [Abstracts Book \(PDF\)](#)

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; Bilker-Koivula, Mirjam; **Ellmann, Artu; Varbla, Sander** EUREF Symposium 2024 : abstract booklet 2024 / p. 39-40 https://euref-symposium.atlantidaviatges.com/wp-content/uploads/2024/05/EUREF_abstract_booklet.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

SWOT-derived geometric marine geoid surface complements gravimetric geoid modelling approaches

Kupavõh, Aleksei; Ellmann, Artu; Delpeche-Ellmann, Nicole Camille; Varbla, Sander EGU General Assembly 2025 2025 / art. EGU25-10957 <https://doi.org/10.5194/egusphere-egu25-10957>

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 XXVIII 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 https://artiklid.elnet.ee/record=b2802952*est

Teetasapinna mõõdistamine terrestrilise laserskaneerimise ja elektrontahhümeetrilise 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=b2802952*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 <https://doi.org/10.3846/20296991.2015.1029755>
[Journal metrics at Scopus](#) [Article at Scopus](#)

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 INGEO 2104 : proceedings of the 6th International Conference on Engineering Surveying : Prague, Czech Republic, April 03-04, 2014 2014 / p. 179-186 : ill

Terrestrilise 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 <https://doi.org/10.1007/s11200-012-0270-z> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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 https://link.springer.com/chapter/10.1007/978-3-540-85426-5_18

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

Ägren, 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 <https://gge.ext.unb.ca/Personnel/Santos/JGon-line.pdf>

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

Liibusk, 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 (LPS22) 2022 / 1 p
<https://www.lps22.eu/>

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 / p. 41-42 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**; **Köök, Romet** The Baltic journal of road and bridge engineering 2019 / p. 1-17 : ill
<https://doi.org/10.7250/bjrbe.2019-14.430> http://www.ester.ee/record=b2222369*est <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

Liibusk, 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**; Liibusk, 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

Vajumisreeperite 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 l.
<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

Liibusk, Aive; Ellmann, Artu Marine geodesy 2015 / p. 314-326 : ill <https://doi.org/10.1080/01490419.2015.1037408> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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 https://link.springer.com/chapter/10.1007/978-3-642-10634-7_65

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 https://artiklid.elnet.ee/record=b2803000*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]

Liibusk, 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