

AHELDATUD ARENGUVÕIMALUSED: Merevägi selgitab leiget huvi pealveedroonide vastu viledate argumentidega
Mölder, Heigo postimees.ee 2025 <https://arvamus.postimees.ee/8321141/heigo-molder-aheldatud-arenguvalused-merevagi-selgitab-leiget-huvi-pealveedroonide-vastu-viledate-argumentidega>

AI haarab tüürist

Vaaks, Eveliis Trialoog 2025 <https://trialoog.taltech.ee/ai-haarab-tuurist/>

Air-core sensors operation modes for partial discharge detection and on-line diagnostics in medium voltage networks

Kütt, Lauri; Shafiq, Muhammad; **Mölder, Heigo**; **Järvik, Jaan**; Lehtonen, Matti Scientific Journal of Riga Technical University.

Electrical, control and communication engineering 2013 / p. 5-12 : ill

Analysis of traditional and alternative methods for solving voltage problems in low voltage grids : an Estonian case study

Rosin, Argo; **Drovtar, Imre**; **Mölder, Heigo**; **Haabel, Kaija**; **Astapov, Victor**; **Vinnal, Toomas**; **Korõtko, Tarmo** Energies 2022 /

art. 1104 <https://doi.org/10.3390/en15031104> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Analysis on AC motor losses due to harmonic levels increase caused by switched capacitor passive power factor correction

Mölder, Heigo; **Vinnal, Toomas**; Beldjajev, Viktor 9th International Symposium "Topical problems in the field of electrical and power engineering". Doctoral school of energy and geotechnology. II : Pärnu, Estonia, June 14-19, 2010 2010 / p. 42-46 : ill

Compact fluorescent lamp harmonic disruption effect of transformer losses

Mölder, Heigo; **Lellsaar, Mikk**; **Kütt, Lauri** 8th International Symposium "Topical Problems in the Field of Electrical and Power Engineering" : Doctoral School of Energy and Geotechnology. II : [Pärnu, January 11-16, 2010 : proceedings] 2010 / p. 277-280 : ill

Comparison of operating modes of air-core inductive sensors for partial discharge on-line diagnostics in medium voltage networks

Kütt, Lauri; Shafiq, Muhammad; Lehtonen, Matti; **Mölder, Heigo**; **Järvik, Jaan** Digest book and electronic proceedings : 54th International Scientific Conference of Riga Technical University : Section of Power and Electrical Engineering 2013 / p. 29.1-29.6 : ill

<https://research.aalto.fi/en/publications/comparison-of-operating-modes-of-air-core-inductive-sensors-for-p>

Current harmonics of EV chargers and effects of diversity to charging load current distortions in distribution networks

Kütt, Lauri; Saarijärvi, Eero; Lehtonen, Matti; **Mölder, Heigo**; **Niitsoo, Jaan** 2013 International Conference on Connected Vehicles and Expo (ICCVE) : proceedings : Las Vegas, Nevada, USA, 2-6 December 2013 2013 / p. 726-731 : ill

<https://ieeexplore.ieee.org/document/6799884>

Design and testing of an universal autonomous surface vehicle

Roasto, Indrek; **Jalakas, Tanel**; **Mölder, Heigo**; **Möller, Taavi**; **Tabri, Kristjan**; Enok, Mart 2021 IEEE 19th International Power Electronics and Motion Control Conference, The Silesian University of Technology Gliwice, Poland, 25 - 29 April, 2021 (PEMC) :

proceedings 2021 / p. 705-710 : ill <https://doi.org/10.1109/PEMC48073.2021.9432567>

Eesti esimene mehitamata teaduslaev oskab iseseisvalt navigeerida

err.ee 2023 [Hundipea sadamas lasti vette Eesti esimene isejuhtiv laev](#) [Eesti esimene mehitamata teaduslaev oskab iseseisvalt navigeerida](#)

[Hundipea sadamast väljus Eesti esimene isejuhtiv tehisintellektiga teaduslaev Heli](#)

Eksperdid: päikesetormide mõju pärast tänapäeval enam muretsema ei pea

Piir, Rait novaator.err.ee 2024 [Eksperdid: päikesetormide mõju pärast tänapäeval enam muretsema ei pea](#)

Electric vehicle charger load current harmonics variations due to supply voltage level differences - case examples

Kütt, Lauri; Saarijärvi, Eero; Lehtonen, Matti; **Mölder, Heigo**; **Niitsoo, Jaan** 2014 International Symposium on Power Electronics,

Electrical Drives, Automation and Motion (SPEEDAM) : 18-20 June, 2014, Ischia, Italy : proceedings 2014 / p. 917-922 : ill

Elektromagnetiline ühilduvus

Mölder, Heigo; **Järvik, Jaan** 2008 https://www.ester.ee/record=b2509847*est

Estimating the harmonic distortions in a distribution network supplying EV charging load using practical source data - case example

Kütt, Lauri; Saarijärvi, Eero; Lehtonen, Matti; **Mölder, Heigo**; **Niitsoo, Jaan** 2014 IEEE Power and Energy Society General Meeting

: National Harbor, MD, USA, 27-31 July 2014 2014 / [5] p. : ill

Estonia Plans to Deploy Armed Robot Ships to Patrol Eastern Waters Along Russian Border

balticsentinel.eu 2025 <https://balticsentinel.eu/8285927/estonia-plans-to-deploy-armed-robot-ships-to-patrol-eastern-waters-along-russian-border>

Experimentally adjusted modelling and simulation technique for a catamaran autonomous surface vessel

Astrov, Igor; **Udal, Andres**; **Mölder, Heigo**; **Jalakas, Tanel**; **Möller, Taavi** International Conference on Electrical, Computer, and

Energy Technologies, ICECET 2022, Prague, Czech Republic, July 20-22, 2022 2022 / 7 p. : ill

Experts: No need to worry about the impact of solar storms today

Piir, Rait news.err.ee 2024 [Experts: No need to worry about the impact of solar storms today](#)

Harmonic load of residential distribution network - case study monitoring results

Kütt, Lauri; Saarijärvi, Eero; Lehtonen, Matti; Mölder, Heigo; Vinnal, Toomas PQ2014 : the 9th International 2014 Electric Power Quality and Supply Reliability Conference (PQ) : June 11-13, 2014, Rakvere, Estonia : proceedings 2014 / p. 93-98 : ill

Harmonic losses in induction motors caused by voltage waveform distortions

Mölder, Heigo; Vinnal, Toomas; Beldjajev, Viktor PQ2010 : 7th International Conference "2010 Electric Power Quality and Supply Reliability" : June 16-18, 2010, Kuressaare, Estonia 2010 / p. 143-148 : ill

Harmonic voltages and currents in LV industrial power systems, shunt capacitors and additional power losses

Vinnal, Toomas; Kalda, Heljut; Mölder, Heigo 9th International Symposium "Topical problems in the field of electrical and power engineering". Doctoral school of energy and geotechnology. II : Pärnu, Estonia, June 14-19, 2010 2010 / p. 47-52 : ill

High-voltage pulse transformer for IOT modulators

Jalakas, Tanel; Janson, Kuno; Mölder, Heigo; Roasto, Indrek IET electric power applications 2020 / p. 2348-2354

<https://doi.org/10.1049/iet-epa.2019.0877> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Hundipeal sõitis uus iselaev

Vitismann, Madli Meremees : Eesti merendusajakiri = Estonian maritime magazine 2023 / lk. 20 : fot

<https://issuu.com/ajakirimeremees/docs/meremees322> https://www.ester.ee/record=b4646644*est

Impact of conducting and insulating material to electric field

Järvik, Jaan; Mölder, Heigo; Vaimann, Toomas 11th International Symposium "Topical Problems in the Field of Electrical and Power Engineering." Doctoral School of Energy and Geotechnology II : Pärnu, Estonia, January 16-21, 2012 2012 / p. 107-112 : ill

Implementation of snubber circuits in power converters with high-voltage IGBTs

Jalakas, Tanel; Blinov, Andrei; Mölder, Heigo; Lehtla, Tõnu 8th International Symposium "Topical Problems in the Field of Electrical and Power Engineering" : Doctoral School of Energy and Geotechnology. II : [Pärnu, January 11-16, 2010 : proceedings] 2010 / p. 42-45 : ill

Influence of regenerative braking to power characteristics of a gantry crane

Beldjajev, Viktor; Lehtla, Tõnu; Mölder, Heigo PQ2010 : 7th International Conference "2010 Electric Power Quality and Supply Reliability" : June 16-18, 2010, Kuressaare, Estonia 2010 / p. 73-77 : ill

Influence of variable energy flow to power characteristics

Beldjajev, Viktor; Lehtla, Tõnu; Mölder, Heigo 9th International Symposium "Topical problems in the field of electrical and power engineering". Doctoral school of energy and geotechnology. II : Pärnu, Estonia, June 14-19, 2010 2010 / p. 29-32 : ill

Investigation of molten metal mixing in a DC electric arc furnace with added AC component on different frequencies

Mölder, Heigo; Järvik, Jaan; Vaimann, Toomas; Gordon, Rauno PQ2012 : 8th International Conference : 2012 Electric Power Quality and Supply Reliability : June 11-13, 2012, Tartu, Estonia : conference proceedings 2012 / p. 33-36 : ill

<https://www.semanticscholar.org/paper/Investigation-of-molten-metal-mixing-in-a-DC-arc-AC-M%C3%B5lder-Jarvik/38848bbd53c7d118a0077072daa0ffb86f649657>

Iselaev käis ise mere taga ära

Vill, Ants Director. Inseneria 2019 / lk. 61-67 : fot http://www.ester.ee/record=b2336521*est <https://director.ee/2019/10/02/iselaev-kais-mere-taga/?v=a57b8491d1d8>

Koostööfestival tõi ettevõtjad ja teadlased üksteisele lähemale : [ka T. Varraku ja H. Mölder'i kommentaarid]

Säde, Merilyn Universitas Tartuensis : UT : Tartu Ülikooli ajakiri 2016 / lk. 8-11 : fot http://www.ester.ee/record=b2459950*est

Kristjan Tabri ja Heigo Mölder: meretaristut võiksid valvata robotid = Kristjan Tabri, Heigo Mölder: Robots could guard marine infrastructure

Tabri, Kristjan; Mölder, Heigo err.ee 2023 [Kristjan Tabri ja Heigo Mölder: meretaristut võiksid valvata robotid](#) [Kristjan Tabri, Heigo Mölder: Robots could guard marine infrastructure](#) [Кристьян Табри и Хейго Мильдер: морскую инфраструктуру могли бы охранять роботы](#)

Load shifting in the existing distribution network and perspectives for EV charging - case study

Kütt, Lauri; Saarijärvi, Eero; Lehtonen, Matti; Rosin, Argo; Mölder, Heigo 2014 5th IEEE PES Innovative Smart Grid Technologies Europe (ISGT Europe) : October 12-15, Istanbul 2014 / p. 1-6 : ill

Magnetic current sensor stray components in high frequency operation and their effects

Kütt, Lauri; Järvik, Jaan; Mölder, Heigo; Kilter, Jako; Shafiq, Muhammad Conference proceedings : 2012 11th International

Measurements and analyses of supply voltage magnitude and voltage variations in Estonian industrial companies

Vinnal, Toomas; Kalda, Heljut; Mölder, Heigo 10th International Symposium "Topical Problems in the Field of Electrical and Power Engineering". Doctoral School of Energy and Geotechnology II : Pärnu, Estonia, January 10-15, 2011 2011 / p. 46-51 : ill

A method for mixing molten metal and a compatible electric arc furnace

Mölder, Heigo; Järvik, Jaan; Janson, Kuno; Gordon, Rauno; Vaimann, Toomas Estonian journal of engineering 2011 / p. 220-240 : ill

Microwave treatment against the attack of wood boring in timber structures

Mölder, Heigo; Järvik, Jaan; Pilt, Kalle; Märss, Mairo; Reiska, Rein Agronomy research 2013 / p. 497-504 : ill
<https://agronomy.emu.ee/wp-content/uploads/2013/10/p11226.pdf#abstract-3069> [Journal metrics at Scopus](#) [Article at Scopus](#)

Miks võib tulevikus laevakapten maale jääda?

Eesti esimene isejuhtiv teaduslaev Heli läks merele

Eesti esimene robotlaev hakkab Läänemere kalavarusid kaardistama

Kool, Kristi postimees 2023 / Lk. 11 [Miks võib tulevikus laevakapten maale jääda?](#) [Eesti esimene isejuhtiv teaduslaev Heli läks merele](#) [Eesti esimene robotlaev hakkab Läänemere kalavarusid kaardistama](#)

Modeling the trajectory tracking accuracy of an autonomous catamaran patrol vessel under different positional data disturbance conditions

Udal, Andres; Kaugerand, Jaanus; Mölder, Heigo; Astrov, Igor; Bauk, Sanja MT '24 : 10th International Conference on Maritime Transport : Barcelona, Spain, 5-7 June, 2024 2024 / p. 1-15 : ill <https://doi.org/10.5821/mt.13165> <http://hdl.handle.net/2117/409463>

Multi-electrode arc furnace technology with improved metal processing capability using current driven mixing

Mölder, Heigo; Järvik, Jaan; Vaimann, Toomas; Gordon, Rauno Conference proceedings : 2012 11th International Conference on Environment and Electrical Engineering : Venice, Italy, 18-25 May 2012 2012 / p. 313-316 : ill

New practical approach to input current shaping in AC-DC power converters

Janson, Kuno; Bolgov, Viktor; Kütt, Lauri; Kallaste, Ants; Mölder, Heigo EPE-PEMC 2008 : 2008 13th International Power Electronics and Motion Control Conference : 1-3 September 2008, Poznan, Poland : abstracts 2008 / p. 8
https://www.researchgate.net/publication/241155011_New_Practical_Approach_to_Input_Current_Shaping_in_AC-DC_Power_Converters

New practical approach to input current shaping in AC-DC power converters [Electronic resource]

Janson, Kuno; Bolgov, Viktor; Kütt, Lauri; Kallaste, Ants; Mölder, Heigo EPE-PEMC 2008 : 2008 13th International Power Electronics and Motion Control Conference : 1-3 September 2008, Poznan, Poland : proceedings 2008 / p. 154-158 : ill. [CD-ROM]
https://www.researchgate.net/publication/241155011_New_Practical_Approach_to_Input_Current_Shaping_in_AC-DC_Power_Converters

An optimal control method for an autonomous surface vessel for environment monitoring and cargo transportation applications

Astrov, Igor; Udal, Andres; Mölder, Heigo 2021 25th International Conference Electronics : Proceedings of the 25th International Conference : ELECTRONICS 2021, Kaunas University of Technology, 14th-16th June, 2021, Palanga, Lithuania 2021 / 6 p
<https://doi.org/10.1109/IEEECONF52705.2021.9467483>

Passive shaping of line current waveform by converter with alternating of parallel and series resonance in AC-DC switch mode power supplies

Janson, Kuno; Bolgov, Viktor; Kütt, Lauri; Kallaste, Ants; Mölder, Heigo ICECS 2008 : The 15th IEEE International Conference on Electronics, Circuits and Systems : 31st August to 3rd September 2008, Malta : conference guide 2008 / p. 37
<https://ieeexplore.ieee.org/document/4674795>

Passive shaping of line current waveform by converter with alternating of parallel and series resonance in AC-DC switch mode power supplies [Electronic resource]

Janson, Kuno; Bolgov, Viktor; Kütt, Lauri; Kallaste, Ants; Mölder, Heigo ICECS 2008 : The 15th IEEE International Conference on Electronics, Circuits and Systems : August 31 - September 3, 2008, Malta : [proceedings] 2008 / p. 77-80 : ill. [CD-ROM]
<https://doi.org/10.1109/ICECS.2008.4674795> <https://ieeexplore.ieee.org/document/4674795>

A review of the effects of electric vehicle charging on distribution network operation and power quality

Kütt, Lauri; Saarijärvi, Eero; Lehtonen, Matti; Mölder, Heigo; Niitsoo, Jaan Electrical and Control Technologies : proceedings of the 8th International Conference on Electrical and Control Technologies : ECT-2013 2013 / p. 162-167

A review of the harmonic and unbalance effects in electrical distribution networks due to EV charging

Kütt, Lauri; Saarijärvi, Eero; Lehtonen, Matti; Mölder, Heigo; Niitsoo, Jaan 12th International Conference on Environment and Electrical Engineering (EEEIC) : 5-8 May 2013 2013 / [6] p

Riist- ja tarkvara hackathon Tehnohack tuleb taas!

Inseneeria 2016 / lk. [56] http://www.ester.ee/record=b2336521*est

Robotlaeva juhhib tehisaruga kapten

Imeline Teadus 2024 / lk. 20 https://www.ester.ee/record=b2747925*est

Sensor resonance and its influence on the measurement results of fast transients

Kütt, Lauri; Shafiq, Muhammad; Lehtonen, Matti; **Mölder, Heigo**; **Järvik, Jaan** Proceedings of the International Conference on Power Systems Transients (IPST2013) in Vancouver, Canada July 18-20, 2013 2013 / [7] p.: ill https://www.ipstconf.org/papers/Proc_IPST2013/13IPST134.pdf

Skeemipesa ideed lendavad Silicon Valleyni välja

Ramler, Gerli Inseneeria 2016 / lk. [42-45] : fot https://artiklid.elnet.ee/record=b2766799*est

TalTechi podcast: teadlasest ettevõtjaks ehk viime laboriteadmised päris ellu [Võrguväljaanne]

Mölder, Heigo; Hansen, Kaisa; Esop, Kristiina delfi.ee 2022 [TalTechi podcast: teadlasest ettevõtjaks ehk viime laboriteadmised päris ellu](https://www.delfi.ee/2022/07/27/taltech-podcast-teadlasest-ettevotjaks-ehk-viime-laboriteadmised-paris-ellu)

Tarbimise juhtimine : suurtarbijate koormusgraafikute salvestamine ning analüüs juhtimise rakendamise võimaluste tuvastamiseks

Rosin, Argo; Drovtar, Imre; Link, Siim; Hõimoja, Hardi; **Mölder, Heigo**; Möller, Taavi 2014 https://www.ester.ee/record=b4432844*est

Target tracking by neural predictive control of autonomous surface vessel for environment monitoring and cargo transportation applications

Astrov, Igor; **Udal, Andres**; Roasto, Indrek; **Mölder, Heigo** 2020 17th Biennial Baltic electronics conference, Tallinn, Estonia, October 6-8, 2020 : proceedings 2020 / 4 p <https://doi.org/10.1109/BEC49624.2020.9277115>

Tehnikateadlased läbimurde ootel - robotlaev Nymo künnab laineid

Alvela, Ain Tehnikamaailm : TM : sõidukid, elektroonika, teadus, tehnoloogia 2019 / lk. 85-88 : fot http://www.ester.ee/record=b4481084*est

Tehnohack tuleb taas!

Mölder, Heigo Studioosus 2015 / lk. 20-21 https://www.ester.ee/record=b1558644*est

A trajectory control method for a strongly underactuated spherical underwater surveillance robot

Astrov, Igor; **Udal, Andres**; **Mölder, Heigo** 2021 IEEE 25th International conference on intelligent engineering systems (INES), 7-9 July 2021 : conference proceedings 2021 / p. 43-48 <https://doi.org/10.1109/INES52918.2021.9512931>

TTÜ teadur: paneme robotid veealust taristut kaitsma

Mölder, Heigo Äripäev 2025 <https://www.aripaev.ee/arvamused/2025/01/07/ttu-teadur-paneme-robotid-veealust-taristut-kaitsma>

Unistuste jalgrattad : [TTÜ elektrotehnika instituudi teaduri Heigo Mölderi üks hobidest on vanade jalgrataste elule aitamine]

Talv, Terje; **Mölder, Heigo** Mente et Manu 2013 / lk. 26-27 : fot https://www.ester.ee/record=b1242496*est

Uurimislaeval HELI pole ei meeskonda ega kaptenit

toostusuudised.ee 2023 [Uurimislaeval HELI pole ei meeskonda ega kaptenit](https://www.toostusuudised.ee/2023/07/27/uurimislaeval-heli-pole-ei-meeskonda-ega-kaptenit)

Vedelmetalli juhitava segamisvõimaluse uurimine alalisvoolu kaarleekahjus = Analysis of liquid metal controlled stirring method in DC electric arc furnace

Mölder, Heigo 2012

Wind force model and adaptive control of catamaran model sailboat

Astrov, Igor; **Udal, Andres**; **Mölder, Heigo**; Jalakas, Tanel; Möller, Taavi 2022 8th International Conference on Automation, Robotics and Applications, ICARA 2022 2022 / p. 202-208 : ill <https://doi.org/10.1109/ICARA55094.2022.9738524>

корабль-«призрак» отправился в плавание из Таллинна

Stolitsa.ee 2023 [корабль-«призрак» отправился в плавание из Таллинна](https://www.stolitsa.ee/2023/07/27/korabль-«призрак»-отправился-в-плавание-из-Таллинна)

Почему ВМС Эстонии следует немедленно внедрить морские дроны

Mölder, Heigo rus.postimees.ee 2025 <https://rus.postimees.ee/8321263/ekspert-pochemu-vms-estonii-sleduet-nemedlenno-vnedrit-morskije-drony>