

A fish perspective : detecting flow features while moving using an artificial lateral line in steady and unsteady flow
Chambers, Lily D.; Ježov, Jaas; Kruusmaa, Maarja Journal of the Royal Society Interface 2014 / p. 1-13 : ill

A method to improve instationary force error estimates for undulatory swimmers

Tuhtan, Jeffrey Andrew; Toming, Gert; Ruuben, Toomas; Kruusmaa, Maarja Underwater technology 2016 / p. 141-151 : ill
<https://doi.org/10.3723/ut.33.141>

A phantom pig abdomen as an alternative for testing robotic surgical systems : our experience

Ristolainen, Asko; Colucci, Gianluca; Kruusmaa, Maarja ATLA = Alternatives to laboratory animals 2013 / p. 359-367

Aasta teaduspeemia tehnikateaduste alal tööde tsükli "Bioloogiast inspireeritud allveerobotite liikumine ja tajud" eest :
Maarja Kruusmaa

Kruusmaa, Maarja Eesti Vabariigi preemiad 2016 : teadus. F. J. Wiedemann keeleauhind. Kultuur. Sport 2016 / lk. 84-95 : ill., portr

Against the flow : a Braitenberg controller for a fish robot

Salumäe, Taavi; Rano, Inaki; Akanyeti, Otar; Kruusmaa, Maarja 2012 IEEE International Conference on Robotics and Automation : ICRA : Saint Paul, Minnesota, USA, May 14-18, 2012 2012 / p. 4210-4215 : ill <https://ieeexplore.ieee.org/document/6225023>

Akadeemik Maarja Kruusmaa : ebakindlus on uus realsus

Kruusmaa, Maarja Mente et Manu 2017 / lk. 12-17 : fot http://www.ttu.ee/public/m/mente-et-manu/MM_01_2017/index.html

Amfibrobotid aitavad aimu saada veealusest elust

Traks, Kristina novaator.err.ee 2023 [Amfibrobotid aitavad aimu saada veealusest elust](#) [Robotid aitavad aimu saada veealusest elust](#)

An advanced finite element model of IPMC

Pugal, Deivid; Kasemägi, Heiki; Kruusmaa, Maarja; Aabloo, Alvo Electroactive Polymer Actuators and Devices (EAPAD) 2008 2008 / p. 692711

An integrated electroactive polymer sensor-actuator : design, model-based control, and performance characterization

Hunt, Andres; Chen, Zheng; Tan, K.; Kruusmaa, Maarja Smart materials and structures 2016 / art. 035016, p. 1-16 : ill
<http://dx.doi.org/10.1088/0964-1726/25/3/035016>

Apokalüpsise ratsanikega tuleb tegeleda korraga

Kruusmaa, Maarja Postimees 2022 / Lk. 8 [Apokalüpsise ratsanikega tuleb tegeleda korraga](#) [Apokalüpsise ratsanikega tuleb tegeleda korraga](#)

Application-oriented performance characterization of the ionic polymer transducers (IPTs) = loonpolümeeridest täiturite võimekuse karakteriseerimine rakendusteks

Hunt, Andres 2017 <https://digi.lib.ttu.ee/i/?7576> https://www.esther.ee/record=b4670806*est

The ARROWS project : robotic technologies for underwater archaeology

Allotta, Benedetto; Costanzi, Riccardo; Ridolfi, Alessandro; Salvetti, Ovidio; Reggiannini, Marco; Kruusmaa, Maarja; Salumäe, Taavi; Lane, David M. Mike; Frost, Gordon; Tsiongas, Nikolaos; Cocco, Michele IOP conference series : materials science and engineering 2018 / art. 012088 <https://doi.org/10.1088/1757-899X/364/1/012088> Conference Proceedings at Scopus Article at Scopus Article at WOS

Artificial lateral line for aquatic habitat modelling: An example for Lefua echigonia

Garcia-Vega, Ana; Fuentes-Perez, Juan Francisco; Fukuda, Shinji; Kruusmaa, Maarja; Sanz-Ronda, Francisco Javier; Tuhtan, Jeffrey Andrew Ecological Informatics 2021 / art. 101388 <https://doi.org/10.1016/j.ecoinf.2021.101388> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Assessing safety of object pushing using the principle of reversibility

Gavšin, Juri; Kruusmaa, Maarja Hybrid Artificial Intelligent Systems : 6th International Conference : HAIS 2011 : Wrocław, Poland, May 23-25, 2011 : proceedings. Part I 2011 / p. 313-320 : ill https://link.springer.com/chapter/10.1007/978-3-642-21219-2_40

Benchmarking 3D CFD for studies on turbulent flow around fish shaped bodies

Khan, Ali Hassan; Hussmann, Karla Ruiz; Powala, Dennis; Hoerner, Stefan; Kruusmaa, Maarja; Tuhtan, Jeffrey Andrew The 14th International Symposium on Ecohydraulics : proceedings 2022 / S3: Ecohydraulics on Micro-scale https://iahr.oss-accelerate.aliyuncs.com/upload/file/20221009/20221009192523_72824.doc

A bio-inspired compliant robotic fish : design and experiments

EL Daou, Hadi; Salumäe, Taavi; Toming, Gert; Kruusmaa, Maarja 2012 IEEE International Conference on Robotics and Automation : ICRA : Saint Paul, Minnesota, USA, May 14-18, 2012 2012 / p. 5340-5345 : ill

Biologically inspired semi-autonomous underwater robot

Listak, Madis; Kruusmaa, Maarja US/EU-Baltic International Symposium : Ocean observations, ecosystem-based management & forecasting : May 27-29, 2008, Tallinn, Estonia : book of abstracts 2008 / p. 89

A bio-mimetic design and control of a fish-like robot using compliant structures

EL Daou, Hadi; Salumäe, Taavi; Ristolainen, Asko; Toming, Gert; Listak, Madis; Kruusmaa, Maarja The 15th International Conference on Advanced Robotics : Tallinn, Estonia, June 20-23, 2011 2011 / p. 563-568 : ill

Biomimetic fish-like underwater robot for shallow water applications

Listak, Madis; Pugal, Deivid; Kruusmaa, Maarja 13th International Conference on Advanced Robotics : Korea, Jeju, 21-24 August, 2007 2007 / p. 332-336

Biomimetic mechanical design for soft-bodied underwater vehicles

Fiazza, C.; Salumäe, Taavi; Listak, Madis; Kulikovskis, Guntis; Templeton, R.; Akanyeti, Otar; Megill, W.; Fiorini, Paolo; Kruusmaa, Maarja IEEE OCEANS : Sydney, 24-27 May 2010 2010 / [7] p.: ill

Biorobootik Maarja Kruusmaa : peame valmis olema suurteks muutusteks

Aesma, Madis; Kruusmaa, Maarja Eesti Päevaleht 2016 / lk. 42-46 <https://epl.delfi.ee/artikel/76462663/biorobootik-maarja-kruusmaa-peame-olema-valmis-suurteks-muutusteks> https://artiklid.elnet.ee/record=b2808283*est

Biorobootik Maarja Kruusmaa paneb robotid kalade kombel ujuma

Linnard, Henry; Kruusmaa, Maarja Öhtuleht 2017 / lk. 22-23 <https://www.ohtuleht.ee/loodus/807381/biorobootik-maarja-kruusmaa-paneb-robotid-kalade-kombel-ujuma>

Biorobootika : hetkeseis ja arengusuunad : avalik loeng 14. mail 2007 TTÜs

Kruusmaa, Maarja Tallinna Tehnikaülikooli aastaraamat 2007 2008 / lk. 332-334 : ill

Collective responses of a large mackerel school depend on the size and speed of a robotic fish but not on tail motion

Kruusmaa, Maarja; Rieucau, Guillaume; Castillo Montoya, Jose Carlos; Markna, Riho; Handegard, Nils Olav Bioinspiration & biomimetics 2016 / p. 1-12 : ill <http://dx.doi.org/10.1088/1748-3190/11/5/056020>

Comparative experiments on the emergence of safe behaviours

Gavšin, Juri; Kruusmaa, Maarja Towards Autonomous Robotic Systems 2008 : Edinburgh, 1-3 September 2008 2008 / ? p

Computational fluid dynamics simulations of a biomimetic underwater robot

Listak, Madis; Pugal, Deivid; Kruusmaa, Maarja 8th International Workshop on Research and Education in Mechatronics 2007 : 14-15 June 2007, Tallinn, Estonia 2007 / p. 72-77 : ill

Computational fluid dynamics simulations of a biomimetic underwater robot

Listak, Madis; Pugal, Deivid; Kruusmaa, Maarja 13th International Conference on Advanced Robotics : Korea, Jeju, 21-24 August, 2007 2007 / p. 314-319 https://ims.ut.ee/images/d/d4/Listak_icar2007_15_03.pdf

Construction of a female shape-changing robotic mannequin

Abels, Artur; Kruusmaa, Maarja International journal of automation and control engineering 2013 / p. 132-134 : ill

Continuous, near-bed current velocity estimation using pressure and inertial sensing

Ristolainen, Asko; Tuhtan, Jeffrey Andrew; Kruusmaa, Maarja IEEE sensors journal 2019 / p. 12398 - 12406 : ill

<https://doi.org/10.1109/JSEN.2019.2937954> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Contributions to the modelling and control of fin-actuated autonomous underwater vehicles = Uimedega autonoomsete allveesöidukite modelleerimis- ja juhtimisloogika edendamine

Remmas, Mohamed Walid 2023 <https://doi.org/10.23658/taltech.71/2023> <https://digikogu.taltech.ee/et/item/17167e2e-2c31-451c-834d-1da98160b2ce> https://www.ester.ee/record=b5647340*est

Control allocation for 6-DOF control of a highly manoeuvrable under-actuated bio-inspired AUV

Remmas, Mohamed Walid; Meurer, Christian; Chemori, Ahmed; Kruusmaa, Maarja IEEE Transactions on Robotics 2023

Control of an inverted pendulum using an ionic polymer-metal composite actuator

Hunt, Andres; Chen, Zheng; Tan, Xiaobo; Kruusmaa, Maarja IEEE/ASME Transactions in Mechatronics : 2010 IEEE/ASME International Conference on Advanced Intelligent Mechatronics : July 6-9, 2010, Montréal, Canada 2010 / p. 163-168 : ill

Current velocity estimation using a lateral line probe

Fuentes-Pérez, Juan Francisco; Tuhtan, Jeffrey Andrew; Carbonell Baeza, Ruth; Musall, Mark; Toming, Gert; Muhammad, Naveed; Kruusmaa, Maarja Ecological engineering 2015 / p. 296-300 : ill <http://dx.doi.org/10.1016/j.ecoleng.2015.10.008>

Data-driven cross-layer fault management architecture for sensor networks

Vihman, Lauri; Kruusmaa, Maarja; Raik, Jaan 16th European Dependable Computing Conference : EDCC 2020 : Virtual Conference, Munich, Germany, 7-10 September 2020 : proceedings 2020 / art. 20094188, p. 33-40
<https://doi.org/10.1109/EDCC51268.2020.00015>

Data-driven fault-resilient cross-layer sensor network architecture = Andmepõhine tõrkekindel kihtideülene sensorvõrgu arhitektuur

Vihman, Lauri 2024 https://www.estet.ee/record=b5657135*est <https://digikogu.taltech.ee/et/item/00a93258-dc0f-4a4d-822f-099fff757224>
<https://doi.org/10.23658/taltech.7/2024>

Depth control of the biomimetic U-CAT turtle-like AUV with experiments in real operating conditions

Chemori, Ahmed; **Kuusmik, Keijo; Salumäe, Taavi; Kruusmaa, Maarja** 2016 IEEE International Conference on Robotics and Automation : Stockholm, Sweden, May 16th-21st 2016 / p. 4750-4755 : ill <https://doi.org/10.1109/ICRA.2016.7487677>

Design and application of a fish-shaped lateral line probe for flow measurement

Tuhtan, Jeffrey Andrew; Fuentes-Pérez, Juan Francisco; Strokina, Nataliya; Toming, Gert; Musall, Mark; Noack, M.; Kämäräinen, Joni-Kristian; Kruusmaa, Maarja Review of scientific instruments 2016 / p. 045110-1 - 045110-8 : ill
<http://dx.doi.org/10.1063/1.4946765>

Design of a shape-changing anthropomorphic mannequin for tailoring applications

Abels, Artur; **Kruusmaa, Maarja** ICAR 2009 : 14th International Conference on Advanced Robotics : Munich, Germany, June 22-26, 2009 2009 / [6] p

Design principle of a biomimetic underwater robot U-CAT

Salumäe, Taavi; Raag, Rasmus; Rebane, Jaan; Ernits, Andres; Toming, Gert; Ratas, Mart; Kruusmaa, Maarja OCEANS'14 MTS/IEEE St. John's : St. Johns, Newfoundland, Canada, 14-19 September 2014 2014 / [5] p. : ill

Development and experimental assessment of a flexible robot fin

Gklika, Roza; Sfakiotakis, Michael; Kruusmaa, Maarja 2018 IEEE International Conference on Soft Robotics (RoboSoft) : proceedings 2018 / p. 208-213 : ill <https://doi.org/10.1109/ROBOSOFT.2018.8404921>

Development of a cognitive robotic system for simple surgical tasks

Muradore, Riccardo; Fiorini, Paolo; **Li, Lin; Kruusmaa, Maarja; Ristolainen, Asko** International journal of advanced robotic systems 2015 / p. 1-20 : ill <http://dx.doi.org/10.5772/60137>

Development of high fidelity liver and kidney phantom organs for use with robotic surgical systems

Öpik, Rivo; Hunt, Andres; Ristolainen, Asko; Aubin, Patrick M.; Kruusmaa, Maarja Proceedings of the 4th IEEE RAS & EMBS International Conference on Biomedical Robotics and Biomechatronics (BioRob), 24-27 June 2012, Rome, Italy 2012 / p. 425-430 : ill

Differential pressure sensor speedometer for autonomous underwater vehicle velocity estimation

Meurer, Christian; Francisco Fuentes-Perez, Juan; Palomeras, Narcis; Carreras, Marc; Kruusmaa, Maarja IEEE Journal of Oceanic Engineering 2020 / p. 946 - 978 <https://doi.org/10.1109/JOE.2019.2907822> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Differential pressure sensors for underwater speedometry in variable velocity and acceleration conditions

Fuentes-Perez, Juan Francisco; Meurer, Christian; Tuhtan, Jeffrey Andrew; Kruusmaa, Maarja IEEE Journal of Oceanic Engineering 2018 / p. 418-426 : ill <https://doi.org/10.1109/JOE.2017.2767786> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

A distributed model of ionomeric polymer metal composite

Punning, Andres; Johanson, Urmas; Anton, Mart; Aabloo, Alvo; **Kruusmaa, Maarja** Journal of intelligent material systems and structures 2009 / p. 1711-1724 : ill <https://doi.org/10.1177/1045389X0933717>

Diver tracking in open waters : a low-cost approach based on visual and acoustic sensor fusion

Remmas, Mohamed Walid; Chemori, Ahmed; Kruusmaa, Maarja Journal of field robotics 2021 / p. 494–508
<https://doi.org/10.1002/rob.21999> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Doktorikraad annab juhiloa, mitte töökoha

Kruusmaa, Maarja Eesti Teaduste Akadeemia aastaraamat = Annales academiae scientiarum Estonicae 2016 2017 / lk. 68-71 : fot
http://www.estet.ee/record=b1218094*est

Doktorikraad annab juhiloa, mitte töökoha

Kruusmaa, Maarja Postimees 2016 / AK, lk. 7 https://artiklid.elnet.ee/record=b2803182*est <https://teadus.postimees.ee/3876751/maaria-kruusmaa-doktorikraad-annab-juhiloa-mitte-tookoha>

Don't do things that you can't undo : reversibility models for generating safe behaviours

Kruusmaa, Maarja; Gavšin, Juri; Eppendahl, A. Proceedings of the 2007 IEEE International Conference in Robotics and Automation

Dynamical variation of the impedance of IPMC

Kruusamäe, Karl; Punning, Andres; **Kruusmaa, Maarja**; Aabloo, Alvo Proceedings of SPIE 2009 / Electroactive Polymer Actuators and Devices (EAPAD) 2009, p. 72870V-1 - 72870V-9 : ill

https://www.researchgate.net/publication/236115865_Dynamical_variation_of_the_impedances_of_IPMC

Ecohydraulics of non-uniform flows in Vertical Slot Fishways

Branco, Paulo; **Fuentes-Pérez, Juan Francisco**; Eckert, Mario; Tuhtan, Jeffrey Andrew; **Kruusmaa, Maarja** Riverine landscapes as coupled socio-ecological systems : 6th biennial Symposium of the International Society for River Science : book of abstracts 2019 / p. 183 https://www.bib.irb.hr/1025362/download/1025362.ISRS2019_book_of_abstracts.pdf

Economically affordable anatomical kidney phantom with calyces for puncture and drainage training in interventional urology and radiology

Ristolainen, Asko; Ross, Peeter; Gavšin, Juri; Semjonov, Eero; **Kruusmaa, Maarja** Acta radiologica short reports 2014 / p. 1-7 : ill

Eestlaste revolutsioon veebiröivakaubanduses : Massi Milano OÜ : [robotmannekeenist ka Maarja Kruusmaa sõnul]

Lugude algus 2012 / lk. 96-97 : fot

Effectiveness of Vertical Slot Fishways under experimental non-uniform flows

Eckert, Mario; **Fuentes-Pérez, Juan Francisco**; Tuhtan, Jeffrey Andrew; **Kruusmaa, Maarja** Riverine landscapes as coupled socio-ecological systems : 6th biennial Symposium of the International Society for River Science : book of abstracts 2019 / p. 195 https://www.bib.irb.hr/1025362/download/1025362.ISRS2019_book_of_abstracts.pdf

Electrode reactions in Cu-Pt coated Nafion[r] actuators

Johanson, Urmas; Mäeorg, Uno; Brandell, Daniel; Punning, Andres; Torop, Janno; **Kruusmaa, Maarja**; Aabloo, Alvo Artificial Muscle Actuators using Electroactive Polymers 2009 / p. 75-80

Elus, surnud ja merel : Meri toob inimeses välja juba muinasmõtlejate kirjeldatud kolmanda oleku, leiab allveetehnoloog Maarja Kruusmaa

Kruusmaa, Maarja Postimees 2020 / Lk. 14 : fot https://heureka.postimees.ee/6863788/elus-surnud-ja-merel-antarktika-reis-toob-inimeses-esile-urgse-oleku?_ga=2.78530071.248236587.1578296660-1045332091.1401712292 https://www.esther.ee/record=b1072778*est

Emergence of safe behaviours with an intrinsic reward

Gavšin, Juri; **Kruusmaa, Maarja** Adaptive and Intelligent Systems : Second International Conference : ICAIS 2011 : Klagenfurt, Austria, September 6-8, 2011 : proceedings 2011 / p. 180-191 : ill

Estimation of flow turbulence metrics with a lateral line probe and regression

Chen, Ke; Tuhtan, Jeffrey Andrew; **Fuentes-Pérez, Juan Francisco**; Toming, Gert; Musall, Mark; Strokina, Nataliya; Kämäräinen, Joni-Kristian; **Kruusmaa, Maarja** IEEE transactions on instrumentation and measurement 2017 / p. 651-660 : ill <https://doi.org/10.1109/TIM.2017.2658278>

Experimental study of hydrodynamic forces acting on artificial fish in a von Kármán vortex street

Toming, Gert; Chambers, Lily D.; **Kruusmaa, Maarja** Underwater technology 2014 / p. 81-91 : ill

Fault-tolerant control allocation for a bio-inspired underactuated AUV in the presence of actuator failures : design and experiments

Remmas, Mohamed Walid; Chemori, Ahmed; **Kruusmaa, Maarja** Ocean engineering 2023 / art. 115327, 12 p. : ill <https://doi.org/10.1016/j.oceaneng.2023.115327>

Feasibility study on distributed flow sensing with inertial sensors in aquaculture fish cages

Ristolainen, Asko; Pihl, Laura; **Kruusmaa, Maarja** Aquacultural Engineering 2022 / art. 102271, 9 p. : ill

<https://doi.org/10.1016/j.aquaeng.2022.102271> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Feedback control of a coupled IPMC (Ionic Polymer-Metal Composite) sensor-actuator

Hunt, Andres; Tan, Xiaobo; Chen, Zheng; **Kruusmaa, Maarja** Proceedings of ASME Dynamic Systems Control Conference : California, USA, 12-14.10.2009 2009 / ? p <https://asmedigitalcollection.asme.org/DSCC/proceedings/DSCC2009/48920/485/346423>

FILOSE for svenning : a flow sensing bioinspired robot

EL Daou, Hadi; Ježov, Jaas; Jung, David S.; **Kruusmaa, Maarja**; Listak, Madis; Salumäe, Taavi; Toming, Gert IEEE robotics and automation magazine 2014 / p. 51-62 : ill

FishView : developing a hydrodynamic imaging system using a robot fish with an artificial lateral line

Tuhtan, Jeffrey Andrew; **Kruusmaa, Maarja**; Toming, Gert 10th International Symposium on Ecohydraulics : Trondheim, Norway, 23-27 June 2014 2014 / [4] p. : ill

A flapped paddle-fin for improving underwater propulsive efficiency of oscillatory actuation
Simha, Ashutosh; Gkiva, Roza; Kotta, Ülle; Kruusmaa, Maarja IEEE robotics and automation letters 2020 / p. 3176-3181
<https://doi.org/10.1109/LRA.2020.2975747> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

A flexible fin with bio-inspired stiffness profile and geometry
Salumäe, Taavi; Kruusmaa, Maarja Journal of bionic engineering 2011 / p. 418-428

Flow aided path following of an underwater robot
Jung, David S.; Pott, Peter P.; Salumäe, Taavi; Kruusmaa, Maarja 2013 IEEE International Conference on Robotics and Automation (ICRA) : Karlsruhe, Germany, May 6-10, 2013 2013 / p. 4602-4607 : ill

Flow feature extraction for underwater robot localization : preliminary results
Muhammad, Naveed; Strokina, Nataliya; Toming, Gert; Tuhtan, Jeffrey Andrew; Kämäräinen, Joni-Kristian; Kruusmaa, Maarja 2015 IEEE International Conference on Robotics and Automation (ICRA) : Washington State Convention Center, Seattle, Washington, May 26-30, 2015 2015 / p. 1125-1130 : ill <http://dx.doi.org/10.1109/ICRA.2015.7139317>

Flow sensing with pressure sensor-based artificial lateral lines : from the laboratory to the field = Veevoolu tajumine röhussensoritel baseeruvate küljejooneanduritega : laborist väljakutseteni
Fuentes-Pérez, Juan Francisco 2019 <https://digi.lib.ttu.ee/i/?12014>

Flow velocity estimation using a fish-shaped lateral line probe with product-moment correlation features and a neural network
Tuhtan, Jeffrey Andrew; Fuentes-Pérez, Juan Francisco; Toming, Gert; Kruusmaa, Maarja Flow measurement and instrumentation 2017 / p. 1-8 : ill <https://doi.org/10.1016/j.flowmeasinst.2016.10.017>

Flow-relative control of an underwater robot
Salumäe, Taavi; Kruusmaa, Maarja Proceedings of the Royal Society. A, Mathematical, physical & engineering sciences 2013

Flow-sensitive robotic fish : from concept to experiments = Voolutundlik robotkala : ideest katsetusteni
Salumäe, Taavi 2015 https://www.ester.ee/record=b4446456*est

Fluid body interaction of biomimetic underwater robots = Biomimeetiliste robotite ja vedeliku vastasmõju
Toming, Gert 2017 <https://digi.lib.ttu.ee/i/?7304>

Fluid dynamics experiments with a passive robot in regular turbulence
Toming, Gert; Salumäe, Taavi; Ristolainen, Asko; Visentin, Francesco; Akanyeti, Otar; Kruusmaa, Maarja Proceedings of the 2012 IEEE International Conference on Robotics and Biomimetics : December 11-14, 2012, Guangzhou, China 2012 / p. 532-537 : ill

From bench to bedside
Arezzo, Alberto; Kruusmaa, Maarja; Mylonas, George IEEE Transactions on Medical Robotics and Bionics 2022 / p. 297 - 299
<https://doi.org/10.1109/TMRB.2022.3172013> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Hall effect sensor-based low-cost flow monitoring device : design and validation
Egerer, Margit; Ristolainen, Asko; Piho, Laura; Vihman, Lauri; Kruusmaa, Maarja IEEE sensors journal 2024 / 12 p. : ill
<https://doi.org/10.1109/JSEN.2024.3354194>

Hirmul robotite ees on suured silmad ja sügavad juured
Kruusmaa, Maarja; Eslas, Urve Postimees 2011 / Arter, lk. 7

Hydraulics of vertical-slot fishways: nonuniform profiles
Fuentes-Pérez, Juan Francisco; Tuhtan, Jeffrey Andrew; Eckert, Mario; Romao, F.; Ferreira, Maria Teresa; Kruusmaa, Maarja; Branco, Paulo Journal of hydraulic engineering 2019 / p. 06018020-1 - 06018020-6 : ill [https://doi.org/10.1061/\(ASCE\)HY.1943-7900.0001565](https://doi.org/10.1061/(ASCE)HY.1943-7900.0001565) Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Hydrodynamic classification of natural flows using an artificial lateral line and frequency domain features
Tuhtan, Jeffrey Andrew; Strokina, Nataliya; Toming, Gert; Muhammad, Naveed; Kruusmaa, Maarja; Kämäräinen, Joni-Kristian E-proceedings of the 36th IAHR World Congress : 28 June - 3 July, 2015, The Hague, the Netherlands 2015 / p. 1-8 : ill

Hydrodynamic pressure sensing with an artificial lateral line in steady and unsteady flows
Venturelli, Roberto; Ježov, Jaas; Toming, Gert; Kruusmaa, Maarja Bioinspiration & biomimetics 2012 / 12 p. : ill

Hydromast : a bioinspired flow sensor with accelerometers
Ristolainen, Asko; Tuhtan, Jeffrey Andrew; Kuusik, Alar; Kruusmaa, Maarja Biomimetic and biohybrid systems : 5th International Conference, Living Machines 2016, Edinburgh, UK, July 19-22, 2016 : proceedings 2016 / p. 510-517 : ill
https://doi.org/10.1007/978-3-319-42417-0_55

Hydromorphological classification using synchronous pressure and inertial sensing

Ristolainen, Asko; Kalev, Kaia; Tuhtan, Jeffrey Andrew; Kuusik, Alar; Kruusmaa, Maarja IEEE transactions on geoscience and remote sensing 2018 / p. 3222-3232 : ill <https://doi.org/10.1109/TGRS.2018.2795641> Journal metrics at Scopus Article at Scopus [Journal metrics at WOS Article at WOS](#)

I paneel. Ülikooli missioon ühiskonnas ning kõrghariduse, teaduspoliitika ja haridusteadustest kestlikkus

Land, Tiit; Valk, Aune; Raidal, Martti; Kruusmaa, Maarja; Lauristin, Marju Haridus - meie ühine vastutus : Eesti Haridusfoorum 2018-2020 : ettekannete ja artiklite kogumik 2020 / lk. 36-43 : fot https://www.estor.ee/record=b5397258*est

Identification of reverse-action pairs using reversibility of actions

Gavšin, Juri; Kruusmaa, Maarja 2011 IEEE International Conference on Systems, Man, and Cybernetics (SMC) : Anchorage, AK, USA, October 9-12 2011 / p. 2555-2560 : ill <https://ieeexplore.ieee.org/document/6084061>

Improving area coverage by reversible object pushing

Gavšin, Juri; Kruusmaa, Maarja The 15th International Conference on Advanced Robotics : Tallinn, Estonia, June 20-23, 2011 2011 / p. 415-420 : ill

An insight on mud behavior upon stepping

Godon, Simon; Ristolainen, Asko; Kruusmaa, Maarja IEEE robotics and automation letters 2022 / p. 11039-11046 <https://doi.org/10.1109/LRA.2022.3194667> Journal metrics at Scopus Article at Scopus [Journal metrics at WOS Article at WOS](#)

Intrinsic robot safety through reversibility of actions = Iseeneslik ohutus robootikas tegevuste pööratavuse põhjal

Gavšin, Juri 2011 <https://digi.lib.ttu.ee/i/?639>

Inverse-model intelligent control of fin-actuated underwater robots based on drag force propulsion

Remmas, Mohamed Walid; Chemori, Ahmed; Kruusmaa, Maarja Ocean Engineering 2021 / art. 109883, 19 p. : ill <https://doi.org/10.1016/j.oceaneng.2021.109883> Journal metrics at Scopus Article at Scopus [Journal metrics at WOS Article at WOS](#)

Joint estimation of bulk flow velocity and angle using a lateral line probe

Strokina, Nataliya; Kämäräinen, Joni-Kristian; Tuhtan, Jeffrey Andrew; Fuentes-Pérez, Juan Francisco; Kruusmaa, Maarja IEEE transactions on instrumentation and measurement 2016 / p. 601-613 : ill <http://dx.doi.org/10.1109/TIM.2015.2499019>

Kriiside tekkimine ühiskondliku valiku teel ehk Riikide säilimine olelusvõtluses

Kruusmaa, Maarja Arvamus, kultuur : [ajalehe Postimees lisa] 2022 / Lk. 20-21 <https://dea.digar.ee/article/ak/2022/02/12/12.2>

Kruusmaa: meil oli praktikutelt ette antud probleem

Lõugas, Hans; Kruusmaa, Maarja Eesti Päevaleht 2013 / lk. 3 <https://epl.delfi.ee/artikel/67117076/kruusmaa-meil-oli-praktikutelt-ette-antud-probleem>

Kuidas keegi : [küsimustele vastab] Maarja Kruusma[a]

Kruusmaa, Maarja Tarkade Klubi 2009 / 5, lk. 78 : portr

Kõva sõna

Kruusmaa, Maarja Postimees 2020 / Lk. 2 https://www.estor.ee/record=b1072778*est

Lahendada tuleks halvim võimali stsenaarium

Marti Aavik Postimees 2020 / lk. 5 https://www.estor.ee/record=b1072778*est

Linear modeling of elongated bending EAP actuator at large deformations

Must, Indrek; Anton, Mart; Kruusmaa, Maarja; Aabloo, Alvo Proceedings of SPIE 2009 / Electroactive Polymer Actuators and Devices (EAPAD) 2009, p. 728723-1 - 728723-12 : ill https://www.researchgate.net/publication/236115802_Linear_modeling_of_elongated_bending_EAP_actuator_at_large_deformations

A linked manipulator with ion-polymer metal composite (IPMC) joints for soft- and micromanipulation

Kruusmaa, Maarja; Hunt, Andres; Punning, Andres; Anton, Mart; Aabloo, Alvo 2008 IEEE International Conference on Robotics and Automation : Pasadena, CA, 19-23 May 2008. Vols. 1-9 2008 / p. 3588-3593

Low cost anatomically realistic renal biopsy phantoms for interventional radiology trainees

Hunt, Andres; Ristolainen, Asko; Ross, Peeter; Öpik, Rivo; Krumme, Andres; Kruusmaa, Maarja European journal of radiology 2013 / p. 594-600 : ill

Lugemiselamus

Kruusmaa, Maarja Horisont 2017 / lk. 61 : ill http://www.estor.ee/record=b1072243*est

Lühike õpetus kriisijuhtidele

Kruusmaa, Maarja Arvamus, kultuur : [ajalehe Postimees lisa] 2023 / Lk. 2-3 <https://dea.digar.ee/article/ak/2023/01/14/2.1>

Maarja Kruusmaa: kõige tõenäolisemalt sureb vaktsiinivastane hoopis südame-veresoонkonna haigustesse [Võrguväljaanne]

Kruusmaa, Maarja postimees.ee 2022 "[Maarja Kruusmaa: kõige tõenäolisemalt sureb vaktsiinivastane hoopis südame-veresoонkonna haigustesse](#)"

Maarja Kruusmaa: lühike õpetus kriisijuhtidele

Kruusmaa, Maarja Arvamus, kultuur : [ajalehe Postimees lisa] 2023 / Lk. 2 [Maarja Kruusmaa: lühike õpetus kriisijuhtidele](#)
<https://dea.digar.ee/article/ak/2023/01/14/2.1>

Maarja Kruusmaa: mõtlemine, kas olen piisavalt heal tasemel, ei vii edasi. Tegutseda tuleb!

Vaikmaa, Madis; **Kruusmaa, Maarja** Postimees 2018 / Arter, lk. 2-6 [Arteri suur intervjuu robootikateadlase Maarja Kruusmaaga: mõtlemine, kas olen piisavalt tasemel, ei vii edasi. Tegutseda tuleb](#)

Maarja Kruusmaa: peame kastma neid taimi, mis vilja kannavad

Kruusmaa, Maarja Mente et Manu 2020 / lk. 24-27 : fot <https://dea.digar.ee/cgi-bin/dea?a=is&oid=AKmentetmanu202011&type=staticpdf>

Maarja Kruusmaa: säilenõtkusesse panustumine tagab ühiskonna toimimise mistahes olukoras

Kruusmaa, Maarja Arvamus, kultuur : [ajalehe Postimees lisa] 2023 / Lk. 3 [Maarja Kruusmaa: säilenõtkusesse panustumine tagab ühiskonna toimimise mistahes olukoras](#)

Maneuvering on non-Newtonian fluidic terrain : a survey of animal and bio-inspired robot locomotion techniques on soft yielding grounds

Godon, Simon; **Kruusmaa, Maarja**; Ristolainen, Asko Frontiers in Robotics and AI 2023 / art. 1113881
<https://doi.org/10.3389/frobt.2023.1113881>

Man-made flows from a fish's perspective : autonomous classification of turbulent fishway flows with field data collected using an artificial lateral line

Tuhtan, Jeffrey Andrew; Fuentes-Pérez, Juan Francisco; Toming, Gert; Schneider, Matthias; Schwarzenberger, Richard; Schletterer, Martin; **Kruusmaa, Maarja** Bioinspiration & biomimetics 2018 / art. 046006, 17 p. : ill <https://doi.org/10.1088/1748-3190/aabc79> [Journal metrics at Scopus Article at Scopus](#) [Journal metrics at WOS Article at WOS](#)

Map-based localization and loop-closure detection from a moving underwater platform using flow features

Muhammad, Naveed; Fuentes-Pérez, Juan Francisco; Tuhtan, Jeffrey Andrew; Toming, Gert; Kruusmaa, Maarja; Musall, Mark Autonomous robots 2019 / p. 1419-1434 : ill <https://doi.org/10.1007/s10514-018-9797-3> [Journal metrics at Scopus Article at Scopus](#) [Journal metrics at WOS Article at WOS](#)

Mida vinget tõi lõppev aasta tehnikailma? : [2016. aasta olulisematest uuendustest tehnoloogiamailmas : ekspertidena vastavad Gert Jervan, Argo Virkebau, ... Maarja Kruusmaa jt.]

Pau, Aivar Postimees 2016 / lk. 24-25 : ill

Modelling of a biologically inspired robotic fish driven by compliant parts

EL Daou, Hadi; Salumäe, Taavi; Chambers, Lily D.; Megill, William M.; **Kruusmaa, Maarja** Bioinspiration & biomimetics 2014 / p. 1-11 : ill

More than depth : developing pressure sensing systems for aquatic environments

Schletterer, Martin; **Tuhtan, Jeffrey Andrew**; Fuentes-Pérez, Juan Francisco; **Kruusmaa, Maarja** HydroSenSoft, International Symposium and Exhibition on Hydro-Environment Sensors and Software : 1-3 March 2017, Madrid, Spain 2017 / p. 1-7 : ill

Motion control architecture of a 4-fin U-CAT AUV using DOF prioritization

Salumäe, Taavi; Chemori, Ahmed; **Kruusmaa, Maarja** IROS 2016 : 2016 IEEE/RSJ International Conference on Intelligent Robots and Systems : October 9-14, 2016, Daejeon Convention Center, Daejeon, Korea 2016 / p. 1321-1327 : ill
<https://doi.org/10.1109/IROS.2016.7759218>

Motion control of a hovering biomimetic four-fin underwater robot

Salumäe, Taavi; Chemori, Ahmed; **Kruusmaa, Maarja** IEEE Journal of Oceanic Engineering 2019 / p. 54 - 71
<https://doi.org/10.1109/JOE.2017.2774318> [Journal metrics at Scopus Article at Scopus](#) [Journal metrics at WOS Article at WOS](#)

A multiplexed FBG based sensor platform for flow and temperature measurements in the Baltic Sea

Dzipalski, A.; Morton, J. A. S.; Papachristou, N.; Maier, R. R. J.; MacPherson, W. N.; **Ristolainen, Asko**; **Kruusmaa, Maarja**; Reilent, E.; Suhhova, Irina; Lips, Urmas Proceedings of SPIE - The International Society for Optical Engineering 2023 / art. 1264307-1 : ill
<https://doi.org/10.1117/12.2679756>

Multiscale change detection in a supraglacial stream using surface drifters

Tuhtan, Jeffrey Andrew; **Kruusmaa, Maarja**; Alexander, Andreas; **Fuentes-Pérez, Juan Francisco** River Flow 2020

Muutus TalTechi rektoraadis : teadusprorektoriks saab Tiit Lukk, Maarja Kruusmaa pühendub uurimistöölle
digi.geenius.ee 2023 [Muutus TalTechi rektoraadis : teadusprorektoriks saab Tiit Lukk, Maarja Kruusmaa pühendub uurimistöölle](#)

[Mõtted]

Kruusmaa, Maarja Hallo, Kosmos! Elu mõte / Ingrid Peek 2017 / lk. 27 https://www.ester.ee/record=b4746867*est

Myometry-driven compliant-body design for underwater propulsion

Akanyeti, Otar; **Listak, Madis; Ernits, Andres**; Fiazza, Maria-Camilla; **Toming, Gert**; Kulikovskis, Guntis; **Raag, Rasmus; Salumäe, Taavi**; Fiorini, Paolo; **Kruusmaa, Maarja** IEEE International Conference on Robotics and Automation : ICRA 2010 : Anchorage, Alaska, USA, 3-7 May 2010 2010 / p. 84-89 <https://ieeexplore.ieee.org/document/5509431>

Nanoporous carbon-based electrodes for high strain ionomeric bending actuators

Palmre, Viljar; Brandell, Daniel; Mäeorg, Uno; Torop, Janno; **Volobujeva, Olga**; Punning, Andres; Johanson, Urmas; **Kruusmaa, Maarja**; Aabloo, Alvo Smart materials & structures 2009 / 9, [7] p. : ill

Nonlinear orientation controller for a compliant robotic fish based on asymmetric actuation

Meurer, Christian; Simha, Ashutosh; Kotta, Ülle; **Kruusmaa, Maarja** 2019 International Conference on Robotics and Automation : ICRA 2019, Palais des Congres de Montreal, Canada, 20-24 May, 2019 2019 / Art. 8793892 ; p. 4688-4694
<https://doi.org/10.1109/ICRA.2019.8793892> Conference proceeding at Scopus Article at Scopus Article at WOS

Novel mechanisms of robot locomotion : variable stiffness actuators for underwater and multi-phase environments = Robotite uudised liikumismehhanismid : muutuva jäikusega täiturid veealustes ja mitmefasilistes keskkondades
Glikli, Roza 2023 <https://doi.org/10.23658/taltech.3/2023> <https://digikogu.taltech.ee/et/item/b1135cd8-02a8-44f8-8b2c-d66d019ea63c>
https://www.ester.ee/record=b5537817*est

Odvaprobootika levik muudab lahinguvälja ja relvaturgu

Oidsalu, Meelis Postimees 2023 / Lk. 18-19 <https://dea.digar.ee/article/postimees/2023/11/14/20.1>

On the shoulders of giants : colourful argument trees for academic writing

Kruusmaa, Maarja; Moktefi, Amirouche; Tuhtan, Jeffrey Andrew Diagrammatic representation and inference : 11th International Conference, Diagrams 2020, Tallinn, Estonia, August 24–28, 2020 : proceedings 2020 / p. 520-524 https://doi.org/10.1007/978-3-030-54249-8_48 Conference proceeding at Scopus Article at Scopus Conference proceedings at WOS Article at WOS

An open 3D CFD model for the investigation of flow environments experienced by freshwater fish

Khan, Ali Hassan; Hussmann, Karla Ruiz; Powalla, Dennis; Hoerner, Stefan; Kruusmaa, Maarja; Tuhtan, Jeffrey Andrew Ecological Informatics 2022 / art. 101652, 12 p. : ill <https://doi.org/10.1016/j.ecoinf.2022.101652> Journal metrics at Scopus Article at Scopus Conference proceedings at WOS Article at WOS

Pandeemia lõi uue maailma. Milline see on?

Päärt, Villu postimees 2020 / Lk. 8-9 : ill <https://leht.postimees.ee/6984645/pandeemia-loi-uue-maailma-milline-see-on>
https://www.ester.ee/record=b1072778*est

PHA-based feedback control of a biomimetic AUV for diver following : design, simulations and real-time experiments

Ratas, Mart; Chemori, Ahmed; Kruusmaa, Maarja European Control Conference (ECC) 2022 / p. 503-509
<https://doi.org/10.23919/ECC55457.2022.9838054>

Pressure and inertia sensing drifters for glacial hydrology flow path measurements

Alexander, Andreas; **Kruusmaa, Maarja; Tuhtan, Jeffrey Andrew**; Hodson, Andrew J.; Schuler, Thomas V.; Kääb, Andreas The cryosphere 2020 / p. 1009-1023 <https://doi.org/10.5194/tc-14-1009-2020> Journal metrics at Scopus Article at Scopus Conference proceedings at WOS Article at WOS

Pressure LaPlacian measurement with a bioinspired fish-shaped lateral line probe

Tuhtan, Jeffrey Andrew; Fuentes-Pérez, Juan Francisco; Schletterer, Martin; Kruusmaa, Maarja HydroSenSoft, International Symposium and Exhibition on Hydro-Environment Sensors and Software : 1-3 March 2017, Madrid, Spain 2017 / p. 1-6 : ill

Pressure sensitive lateral line for underwater robot = Rõhutundliku küljejoone kasutamine allveerobotil

Ježov, Jaas 2013 https://www.ester.ee/record=b3008502*est

Random forests hydrodynamic flow classification in a vertical slot fishway using a bioinspired artificial lateral line probe

Fukuda, Shinji; **Tuhtan, Jeffrey Andrew; Fuentes-Pérez, Juan Francisco; Schletterer, Martin; Kruusmaa, Maarja** Intelligent Robotics and Applications : 9th International Conference, ICIRA 2016, Tokyo, Japan, August 22-24, 2016 : proceedings. Part II 2016 / P. 297-307 : ill http://dx.doi.org/10.1007/978-3-319-43518-3_29

Research: New method maps meltwater flows inside glaciers

Kruusmaa, Maarja news.err.ee 2023 [Research: New method maps meltwater flows inside glaciers Topology and spatial-pressure-distribution reconstruction of an englacial channel](#)

Research: Robots assist in gaining glimpse of life underwater

Traks, Kristina news.err.ee 2023 [Research: Robots assist in gaining glimpse of life underwater](#)

Riik kui leiutis

Kruusmaa, Maarja Postimees 2018 / AK, lk. 6 [Maarja Kruusmaa: riik kui leiutis](#)

Robootik, keda inspireerib loodus

Kruusmaa, Maarja Horisont 2017 / lk. 26-31 : fot http://www.esther.ee/record=b1072243*est

Robootikaprofessor Maarja Kruusmaa teaduse rahastamisest : pole mõtet vahelejäänut peksta, kui süsteem lonkab

Berendson, Risto; Kruusmaa, Maarja Ōhtuleht 2019 / lk. 2-3 [Robootikaprofessor Maarja Kruusmaa teaduse rahastamisest : pole mõtet vahelejäänut peksta, kui süsteem lonkab](#)

Robotite kaasamine võib töökohti ka juurde luua

Alver, Anne-Mari; Kruusmaa, Maarja Eesti Päevaleht 2018 / Tööstus, lk. 28

Robotkala aitab teadlasi mõista päris kalu : [TTÜ biorobootika keskusele eraldati teadusgrant robotkala ehitamiseks : Maarja Kruusmaa kommentaariga]

Nõges, Krõõt; Kruusmaa, Maarja Mente et Manu 2009 / 27. aug., lk. 2 : fot https://www.esther.ee/record=b1242496*est

Salmon behavioural response to robots in an aquaculture sea cage

Kruusmaa, Maarja; Gkliwa, Roza; Tuhtan, Jeffrey Andrew; Tuvikene, A.; Alfredsen, J.A. Royal Society open science 2020 / art. 191220, 14 p. : ill <https://doi.org/10.1098/rsos.191220> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Scientific language connects - an interview with Maarja Kruusmaa

Kruusmaa, Maarja Eesti Teaduste Akadeemia in words and images 2018 2019 / p. 48-53 : phot https://www.esther.ee/record=b5178522*est

Self-motion effects on hydrodynamic pressure sensing : Part I. Forward-backward motion

Akanyeti, Otar; Ježov, Jaas; Kruusmaa, Maarja Bioinspiration & biomimetics 2013 / p. 1-10 : ill

Sensing drifters for glacial hydrology measurements

Alexander, Andreas; Kruusmaa, Maarja; Tuhtan, Jeffrey Andrew; Hodson, Andreas J. Svalbard Science Conference 2019 : book of abstracts 2019 / p. 50 <https://www.forskningsradet.no/contentassets/f464e19d364c40b59170a1956a98e747/book-of-abstracts-ssc2019.pdf>

Shape classification using hydrodynamic detection via a sparse large-scale 2D-sensitive artificial lateral line

Wolf, Ben J.; Pirih, Primoz; Kruusmaa, Maarja; Van Netten, Sietse M. IEEE Access 2020 / p. 11393 - 11404

<https://doi.org/10.1109/ACCESS.2020.2965316> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Shape control of an anthropomorphic tailoring robot mannequin

Abels, Artur; Kruusmaa, Maarja International journal of humanoid robotics 2013 / [16] p

Ship wake analysis using an array of nearbed sensors

Kruusmaa, Maarja; Parnell, Kevin Ellis; Ristolainen, Asko; Rätsep, Margus; Soomere, Tarmo Abstracts : [BSSC 2019] 2019 / p. 292 https://www.su.se/polopoly_fs/1.446756.1566224624!/menu/standard/file/abstracts_A5_ny.pdf

Soft fluidic actuator for locomotion in multi-phase environments

Gkliwa, Roza; Kruusmaa, Maarja IEEE robotics and automation letters 2022 / p. 10462-10469

<https://doi.org/10.1109/LRA.2022.3192204> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Spatial preferences of Iberian barbel in a vertical slot fishway under variable hydrodynamic scenarios

Fuentes-Pérez, Juan Francisco; Eckert, Mario; Tuhtan, Jeffrey Andrew; Ferreira, Maria Teresa; Kruusmaa, Maarja; Branco, Paulo Ecological engineering 2018 / p. 131-142 : ill <https://doi.org/10.1016/j.ecoleng.2018.10.014> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

State estimation and control for small low-cost autonomous underwater vehicles = Meetodid olekute hindamiseks ja juhtimiseks soodsas hinnaga autonoomsetele allveerobotitele

Meurer, Christian 2021 https://www.esther.ee/record=b5435482*est <https://digikogu.taltech.ee/et/item/717111f2-51e3-4176-b0b8-b369064b26a2> <https://doi.org/10.23658/taltech.27/2021>

Statistical methods for ultrasound image segmentation = Ultrahelipiltide segmenteerimine statistiliste meetoditega
Li, Lin 2015 https://www.ester.ee/record=b4526723*est

Subsurface flow path modeling from inertial measurement unit sensor data using infinite hidden Markov models
Pihl, Laura; Kruusmaa, Maarja IEEE sensors journal 2022 / p. 621-630 : ill <https://doi.org/10.1109/JSEN.2021.3128838> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Surface vessel localization from wake measurements using an array of pressure sensors in the littoral zone
Rätsep, Margus; Parnell, Kevin Ellis; Soomere, Tarmo; Kruusmaa, Maarja; Ristolainen, Asko; Tuhtan, Jeffrey Andrew
Ocean engineering 2021 / art. 109156 <https://doi.org/10.1016/j.oceaneng.2021.109156> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Swimming speed control and on-board flow sensing of an artificial trout
Kruusmaa, Maarja; Toming, Gert; Salumäe, Taavi; Ježov, Jaas; Ernits, Andres 2011 IEEE International Conference on Robotics and Automation : ICRA : May 9-13, 2011, Shanghai, China 2011 / p. 1791-1796 : ill

Systematic review of fault tolerant techniques in underwater sensor networks
Vihman, Lauri; Kruusmaa, Maarja; Raik, Jaan Sensors 2021 / art. 3264 <https://doi.org/10.3390/s21093264> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Tallinna Tehnikaülikooli allveerobot hõlbustab kalakasvatajate tööd [Võrguväljaanne]
Kruusmaa, Maarja novaator.err.ee 2020 / fot [Tallinna Tehnikaülikooli allveerobot hõlbustab kalakasvatajate tööd](#)

TalTechi allveerobot sueldus lõheluurele
Imeline Teadus 2020 / lk. 21 : fot https://www.ester.ee/record=b2747925*est

TalTechi arengukava 2021-2025 : teadusvaldkonna sihid ja sammud
Kruusmaa, Maarja Mente et Manu 2021 / lk. 20- 23 : fot https://www.ester.ee/record=b1242496*est

A task-oriented design of a biologically inspired underwater robot
Listak, Madis 2007 http://www.ester.ee/record=b2298234*est

Teadlane vastab : kas robotid võivad muutuda inimestele ohtlikeks? [Võrguväljaanne]
Kruusmaa, Maarja forte.delfi.ee 2020 / video [Teadlane vastab: kas robotid võivad muutuda inimestele ohtlikeks?](#)

Teadlane vastab : kas robotid võtavad tulevikus meie töö ära? [Võrguväljaanne]
Kruusmaa, Maarja Eesti Teaduste Akadeemia : Youtube kanal 2020 / video [Teadlane vastab: kas robotid võtavad tulevikus meie töö ära?](#)

Teadlase kuvand ja usaldusväärus
Kruusmaa, Maarja Teadus ja ühiskond 2018 / lk. 91-96 : fot

Teadlased loid robotile uue meeleeelundi
Olesk, Arko; Kruusmaa, Maarja Postimees 2013 / lk. 6 <https://teadus.postimees.ee/1163870/teadlased-loid-robotile-uue-meeleeelundi>

Teaduskeel on ühendaja - intervjuu Maarja Kruusmaaga
Kruusmaa, Maarja Eesti Teaduste Akadeemia sõnas ja pildis 2018 2019 / lk. 48-53 : fot

The ARROWS project : adapting and developing robotics technologies for underwater archaeology
Allotta, Benedetto; Costanzi, Riccardo; Kruusmaa, Maarja; Salumäe, Taavi IFAC-PapersOnLine 2015 / p. 194-199 : ill
<https://doi.org/10.1016/j.ifacol.2015.06.032> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

3D modelling of non-uniform and turbulent flow in vertical slot fishways
Fuentes-Pérez, Juan Francisco; Silva, A.T.; Tuhtan, Jeffrey Andrew; Garcia-Vega, Ana; Carbonell Baeza, Ruth; Musall, Mark; Kruusmaa, Maarja Environmental modelling & software 2018 / p. 156-169 : ill <https://doi.org/10.1016/j.envsoft.2017.09.011> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Topology and spatial-pressure-distribution reconstruction of an englacial channel
Pihl, Laura; Alexander, Andreas; Kruusmaa, Maarja The cryosphere 2022 / p. 3669-3683 <https://doi.org/10.5194/tc-16-3669-2022> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

2D estimation of velocity relative to water and tidal currents based on differential pressure for autonomous underwater vehicles
Meurer, Christian; Fuentes-Perez, Juan Francisco; Schwarzwälder, Kordula; Ludvigsen, Martin; Sorensen, Asgeir Johan; Kruusmaa, Maarja IEEE robotics and automation letters 2020 / p. 3444-3451 <https://doi.org/10.1109/LRA.2020.2976318> [Journal](#)

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

Tänavust Robotexi külastas rekordarv robotihuvilisi : [professor M.Kruusmaa kommentaariga]

Soomann, Anna-Liisa; Kruusmaa, Maarja HEI = Hea Eesti Idee 2008 / lk. 28-30 : ill

U-CAT for underwater archaeology : turtle-inspired robot operates in tethered and autonomous modes

Kruusmaa, Maarja; Salumäe, Taavi Sea technology 2016 / p. 37-40 : ill

Underwater bioinspired sensing: New opportunities to improve environmental monitoring

Tuhtan, Jeffrey Andrew; Nag, Saptarshi; Kruusmaa, Maarja IEEE instrumentation & measurement magazine 2020 / p. 30-36

<https://doi.org/10.1109/MIM.2020.9062685> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Underwater confined space mapping by resource-constrained autonomous vehicle

Preston, Victoria; Salumäe, Taavi; Kruusmaa, Maarja Journal of field robotics 2018 / p. 1122-1148 : ill

<https://doi.org/10.1002/rob.21806> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Underwater vehicle speedometry using differential pressure sensors : preliminary results [Online resource]

Fuentes-Pérez, Juan Francisco; Kalev, Kaia; Tuhtan, Jeffrey Andrew; Kruusmaa, Maarja Autonomous Underwater Vehicles

2016 : AUV 2016 : 6-9 November 2016 : IIS, the University of Tokyo, Tokyo, Japan 2016 / p. 156-160 : ill

<https://doi.org/10.1109/AUV.2016.7778664>

Using spectrograms from underwater total pressure sensors to detect passing vessels in a coastal environment

Rätsep, Margus; Parnell, Kevin Ellis; Soomere, Tarmo; Kruusmaa, Maarja; Ristolainen, Asko; Tuhtan, Jeffrey Andrew

Journal of atmospheric and oceanic technology 2020 / p. 1353-1363 : ill <https://doi.org/10.1175/JTECH-D-19-0192.1> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Üks küsimus : milline on teie jaoks ideaalne ülikool?

Mente et Manu 2020 / lk. 24-25 , 34-35, 44-45 : portr https://www.esther.ee/record=b1242496*est

Маарья Круусмаа : антиваксер, скорее всего, умрет от сердечного приступа [Online resource]

Kruusmaa, Maarja rus.postimees.ee 2022 "Маарья Круусмаа: антиваксер, скорее всего, умрет от сердечного приступа"