

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

A phantom study for the validation of a surgical navigation system based on real-time segmentation and registration methods

Maris, B.; **Ristolainen, Asko; Li, Lin; Gavšin, Juri** International journal of computer assisted radiology and surgery 2013 / p. 381-382 : ill

A solution to perceptual aliasing through probabilistic fuzzy logic and SIFT

Qamar, Syeda Madiha; Iqbal, Khawaja Fahad; **Muhammad, Naveed** 2013 IEEE/ASME International Conference on Advanced Intelligent Mechatronics : Mechatronics for Human Wellbeing : July 9-12, 2013, Wollongong, Australia 2013 / p. 1393-1398 : ill

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

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>

Autonomous PIV-measurements in the Tallinn Bay

Erm, Ants; Listak, Madis; Rebane, Jaan; Toming, Gert; Buschmann, Fred International Coastal Symposium 2013 : book of abstracts : Plymouth University, 8–12 April 2013 2013 / p. 376

Autonomous underwater device for 2D particle image velocimetry field analysis

Buschmann, Fred; Erm, Ants; Listak, Madis; Rebane, Jaan; Toming, Gert BSSC 9th Baltic Sea Science Congress 2013 : New Horizons for Baltic Sea Science, Klaipeda, Lithuania, 26-30 August 2013 : [abstracts] 2013 / p. 147

Beitrag zu detaillierten Analysen der Hydraulik von Schlitzpässen

Musall, Mark; Oberle, Peter; Carbonell Baeza, Ruth; **Fuentes-Pérez, Juan Francisco; Tuhtan, Jeffrey Andrew; Nestmann, Franz** Wasserwirtschaft 2015 / s. 67-72 <https://doi.org/10.1007/s35147-015-0551-x>

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

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

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

Classification of benthic biocenosis of the lowland river Tudovka (Tver Region, Russia) using community features

Schletterer, Martin; Kuzovlev, Vyacheslav V.; Zhenikov, Yuri N.; Strokina, Nataliya; **Tuhtan, Jeffrey Andrew** International Geographical Union Regional Conference "Geography, Culture and Society for our Future Earth" : 17-21 August 2015, Moscow, Russia : book of abstracts 2015 / p. 1597

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>

Construction of a female shape-changing robotic mannequin

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

DC-conductivity testing combined with photometry for measuring fibre orientations in SFRC

Eik, Marika; Löhmus, Karl; Tigasson, Martin; Listak, Madis; Puttonen, Jari; **Herrmann, Heiko** Journal of materials science 2013 / p. 3745-3759 : ill

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 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>

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

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>

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

Effects of wave asymmetry on its runup on a beach

Didenkulova, Irina; Denissenko, Petr; **Listak, Madis**; Rodin, Artem; Pelinovsky, Efim International Coastal Symposium 2013 : book of abstracts : Plymouth University, 8–12 April 2013 2013 / p. 370

Effects of wave asymmetry on its runup on a beach : theory and experiment

Didenkulova, Irina; Denissenko, Petr; **Rodin, Artem**; **Listak, Madis**; Pelinovsky, Efim International Conference Caribbean Waves 2 : Gosier, Guadeloupe, F.W.I., 22-25 January 2013 : conference program [and abstract book] 2013 / p. 103

Experimental measurements of statistics of long wave runup on a plane beach

Denissenko, Petr; **Didenkulova, Irina**; **Listak, Madis**; Pelinovsky, Efim International Coastal Symposium 2013 : book of abstracts : Plymouth University, 8–12 April 2013 2013 / p. 368

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

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

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,

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

Human detection and following by a mobile robot using 3D features

Ali, Badar; Iqbal, Khawaja Fahad; Ayaz, Yasar; Muhammad, Naveed Proceedings of 2013 IEEE International Conference on Mechatronics and Automation (ICMA) : August 4-7, Takamatsu, Japan 2013 / p. 1714-1719 : ill

Human tracking by a mobile robot using 3D features

Ali, Badar; Qureshi, Ahmed Hussain; Muhammad, Naveed Proceeding of the IEEE International Conference on Robotics and Biomimetics (ROBIO) : Shenzhen, China, December 2013 2013 / p. 2464-2469 : ill

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

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

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

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

Investigating sediment resuspension using combined optical and acoustic methods

Buschmann, Fred; Erm, Ants; Rebane, Jaan; Listak, Madis 1st Baltic Earth Conference Multiple Drivers for Earth System Changes in the Baltic Sea Region : Nida, Curonian Spit, Lithuania, 13-17 June 2016 : conference proceedings 2016 / p. 111 : ill
http://www.baltic-earth.eu/events/nida2016/material/BalticEarth_Nida2016_Proceedings.pdf

Investigating the bottom boundary layer using a submersible particle image velocimeter

Buschmann, Fred; Erm, Ants; Listak, Madis; Rebane, Jaan Measuring and Modelling of Multi-Scale Interactions in the Marine Environment : IEEE/OES Baltic Symposium 2014, May 26.-29. 2014, Tallinn, Estonia : book of abstracts 2014 / p. 27

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>

Leitströmung an Fischaufstiegsanlagen : Bewertung und Optimierung über ethohydraulische Modellierung

Kopecki, Iaina; Schneider, Matthias; Tuhtan, Jeffrey Andrew Wasserwirtschaft 2016 / S. 37-42 : ill
<https://www.springerprofessional.de/leitstroemung-an-fischaufstiegsanlagen-bewertung-und-optimierung/10803392>

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

Mida vinget töi 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

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>

Non-uniform hydraulic behavior of pool-weir fishways : A tool to optimize its design and performance

Fuentes-Pérez, Juan Francisco; Sanz-Ronda, Francisco Javier; Martinez de Azagra Paredes, Andres; Garcia-Vega, Ana Ecological engineering 2016 / p. 5-12 : ill <http://dx.doi.org/10.1016/j.ecoleng.2015.10.021>

Planning and simulation of percutaneous cryoablation

Dodi, Riccardo; Ferraguti, Federica; **Ristolainen, Asko** AASRI proedia 2014 / p. 118-122 : ill

Potential guided directional-RRT* for accelerated motion planning in cluttered environments

Qureshi, Ahmed Hussain; Iqbal, Khawaja Fahad; **Muhammad, Naveed** Proceedings of 2013 IEEE International Conference on Mechatronics and Automation (ICMA) : August 4-7, Takamatsu, Japan 2013 / p. 519-524 : ill

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

Ježov, Jaas 2013 https://www.esther.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

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

Shape control of an anthropomorphic tailoring robot mannequin

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

Statistical methods for ultrasound image segmentation = Ultrahelipiltide segmenteerimine statistiliste meetoditega

Li, Lin 2015 https://www.esther.ee/record=b4526723*est

Tehnikaülikool kostitas teadusajakirjanikke nii hommikusöögi kui vaimutoiduga : [kohtumisel TTÜ esindajatega biorobootika keskuses 1. juunil 2011]

Ummelas, Mart Mente et Manu 2011 / lk. 2 : fot https://www.esther.ee/record=b1242496*est

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

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 experiments and a theoretical model – case study in Tallinn Bay

Erm, Ants; Buschmann, Fred; Listak, Madis; Rebane, Jaan; Toming, Gert Journal of coastal research 2013 / p. 1521-1526 : ill

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 UAV generated data for the characterisation of riverine systems - case study in the headwaters of the Volga River

Haas, Christian; Thumser, Philipp; Tuhtan, Jeffrey Andrew; Kuzovlev, Vyacheslav V.; Zhenikov, Yuri N.; Schletterer, Martin International Geographical Union Regional Conference "Geography, Culture and Society for our Future Earth" : 17-21 August 2015, Moscow, Russia : book of abstracts 2015 / p. 1594

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"