

## **An investigation of image processing techniques for substrate classification based on dominant grain size using RGB images from UAV**

Arif, Mohammad Shafi M.; Gülch, Eberhard; **Tuhtan, Jeffrey Andrew**; Thumser, Philipp; Haas, Christian International journal of remote sensing 2017 / p. 2639-2661 : ill <https://doi.org/10.1080/01431161.2016.1249309> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

## **Archimedes screw - an alternative for safe migration through turbines?**

Pauwels, Ine S.; **Tuhtan, Jeffrey Andrew**; Coeck, Johan; Buysse, David; Baeyens, Raf Novel Developments for Sustainable Hydropower 2022 / p. 125-133 : ill [https://doi.org/10.1007/978-3-030-99138-8\\_11](https://doi.org/10.1007/978-3-030-99138-8_11)

## **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](#)

## **Ausblick : Quo vadis Ethohydraulik – welche Entwicklungen gibt es?**

Lehmann, Boris; Bensing, Katharina; Adam, Beate; Schwevers, Ulrich; **Tuhtan, Jeffrey Andrew** Ethohydraulik : Eine Methode für naturverträglichen Wasserbau 2021 / S. 45-59 [https://doi.org/10.1007/978-3-658-32824-5\\_4](https://doi.org/10.1007/978-3-658-32824-5_4)

## **Automated environmental compliance monitoring of rivers with IoT and open government data**

**Miasayedava, Lizaveta**; McBride, Keegan David Braun; **Tuhtan, Jeffrey Andrew** Journal of environmental management 2022 / art. 114283, 10 p. : ill <https://doi.org/10.1016/j.jenvman.2021.114283> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

## **Bedload transport measurement in a Japanese gravel river using synchronized hydrodynamic and hydroacoustic pressure sensing**

Tsubaki, R.; Fuentes-Perez, Juan Francisco; Kawamura, S.; **Tuhtan, Jeffrey Andrew**; **Sumitomo, K.** River Flow 2020 Proceedings of the 10th Conference on Fluvial Hydraulics (Delft, Netherlands, 7-10 July 2020): River Flow 2020, Online, 7-10 July 2020 2020 / p. 1476-1482 <https://doi.org/10.1201/b22619>

## **Beispiele aus der Praxis : Ethohydraulische Befunde - was bedeutet das?**

Lehmann, Boris; Bensing, Katharina; Adam, Beate; Schwevers, Ulrich; **Tuhtan, Jeffrey Andrew** Ethohydraulik : Eine Methode für naturverträglichen Wasserbau 2021 / S. 23-43 [https://doi.org/10.1007/978-3-658-32824-5\\_3](https://doi.org/10.1007/978-3-658-32824-5_3)

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

## **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](https://iahr.oss-accelerate.aliyuncs.com/upload/file/20221009/20221009192523_72824.doc)

## **Bio-inspired robotic fish for assessment of injury risks during the fish passage**

Abbaszadeh, Shokoofeh; **Toming, Gert**; **Tuhtan, Jeffrey Andrew**; Leidhold, Roberto; Hoerner, Stefan Proceedings of the 15th International Symposium on Ecohydraulics and Fish Passage 2024 (ISE-FP) 2024 / 1 p. [https://www.researchgate.net/publication/381655658\\_Bio-inspired\\_robotic\\_fish\\_for\\_assessment\\_of\\_injury\\_risks\\_during\\_the\\_fish\\_passage](https://www.researchgate.net/publication/381655658_Bio-inspired_robotic_fish_for_assessment_of_injury_risks_during_the_fish_passage)

## **Biorobotikute loodud meetodid aitavad kaladel hüdroelektrijaamades ohutumalt liikuda**

Mente et Manu 2020 / lk. 32 <https://dea.digar.ee/cgi-bin/dea?a=is&oid=AKmenteetmanu202011&type=staticpdf>

## **Brief Communication : mapping river ice using drones and structure from motion**

Alfredsen, Knut; Haas, Christian; **Tuhtan, Jeffrey Andrew**; Zinke, Peggy The cryosphere 2018 / p. 627-633 : ill <https://doi.org/10.5194/tc-12-627-2018> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

## **Classification of benthic biocenoses of the lowland river Tudovka (Tver region, Russia) using community features**

Schletterer, Martin; Füreder, Leopold; Kuzovlev, Vyacheslav V.; Zhenikov, Yuri N.; **Fuentes-Pérez, Juan Francisco**; **Tuhtan, Jeffrey Andrew** Geography, environment, sustainability 2017 / p. 40-56 : ill <https://doi.org/10.24057/2071-9388-2017-10-2-40-56> [Journal metrics at Scopus](#) [Article at Scopus](#)

## **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

### **Comparing land and underwater gait characteristics with inertial measurement units**

**Monoli, Cecilia**; Gasparini, Isabella; Piccinini, Luigi; **Tuhtan, Jeffrey Andrew**; Galli, Manuela 26th Congress of the European Society of Biomechanics, July 11-14, 2021, Milan, Italy : conference paper 2021 / 2 p. : ill [https://www.researchgate.net/publication/353803400\\_Comparing\\_Land\\_and\\_Underwater\\_Gait\\_Characteristics\\_with\\_Inertial\\_Measurement\\_Units](https://www.researchgate.net/publication/353803400_Comparing_Land_and_Underwater_Gait_Characteristics_with_Inertial_Measurement_Units)

### **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

### **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 <https://doi.org/10.1016/j.ecoleng.2015.10.008> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

### **Depth-dependent hydraulic roughness and its impact on the assessment of hydropeaking**

Kopecki, Janina; Schneider, Matthias; **Tuhtan, Jeffrey Andrew** Science of the total environment 2017 / p. 1597-1605 : ill <https://doi.org/10.1016/j.scitotenv.2016.10.110> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

### **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 <https://doi.org/10.1063/1.4946765> 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-Pérez, 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

### **Digitalization and real-time control to mitigate environmental impacts along rivers: focus on artificial barriers, hydropower systems and European priorities**

Quaranta, Emanuele; Bejarano, Maria Dolores; Comoglio, Claudio; Fuentes-Pérez, Juan Francisco; Pérez-Díaz, Juan Ignacio; Sanz-Ronda, Francisco Javier; **Schletterer, Martin**; Szabo-Meszaros, Marcell; **Tuhtan, Jeffrey Andrew** Science of the total environment 2023 / 22 p. : ill <https://www.sciencedirect.com/science/article/pii/S0048969723011051> <https://doi.org/10.1016/j.scitotenv.2023.162489> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

### **Do cyprinid fish use lateral flow-refuges during hydropeaking?**

Boavida, Isabel; Costa, Maria Joao; Portela, Maria Manuela; Godinho, Francisco; **Tuhtan, Jeffrey Andrew**; Pinheiro, Antonio N. River research and applications 2023 / p. 554-560 <https://doi.org/10.1002/rra.3863> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

### **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](https://www.bib.irb.hr/1025362/download/1025362.ISRS2019_book_of_abstracts.pdf)

### **EcoPeak4Fish : a multidisciplinary project targeting the protection of fish populations affected by hydropeaking**

Boavida, Isabel; Santos, Jose Maria; Costa, Maria Joao; Leite, Renan; Merianne, Anthony; Portela, Maria Manuela; Godinho, Francisco; Leitao, Pedro; Mota, Rui; **Tuhtan, Jeffrey Andrew**; **Pinheiro, Antonio N.** Biology and life sciences forum 2022 / p. 85 <https://doi.org/10.3390/blsf2022013085>

### **Eesti teadlaste loodud süsteem aitab kaladel hüdroelektrijaamas ellu jääda**

novaator.err.ee 2020 / fot <https://novaator.err.ee/1157348/eesti-teadlaste-loodud-susteem-aitab-kaladel-hydroelektrijaamas-ellu-jaada>

### **Eesti teadlaste loodud süsteem aitab kaladel hüdroelektrijaamas ellu jääda [Võrguväljaanne]**

**Tuhtan, Jeffrey Andrew** novaator.err.ee 2020 / fot [Eesti teadlaste loodud süsteem aitab kaladel hüdroelektrijaamas ellu jääda](https://novaator.err.ee/1157348/eesti-teadlaste-loodud-susteem-aitab-kaladel-hydroelektrijaamas-ellu-jaada)

### **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](https://www.bib.irb.hr/1025362/download/1025362.ISRS2019_book_of_abstracts.pdf)

### **Ein Fisch ist kein Punkt: Analyse von Strömungssignaturen in Fischaufstiegsanlagen mit einem Seitenlinien Sensor**

**Tuhtan, Jeffrey Andrew**; **Fuentes-Pérez, Juan Francisco**; **Toming, Gert**; Schneider, Matthias; Schletterer, Martin Wasserwirtschaft 2018 / S. 48-53 : Ill <https://doi.org/10.1007/s35147-018-0015-1> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

### **Einleitung : Ethologie und Hydraulik – wozu wird das benötigt?**

Lehmann, Boris; Bensing, Katharina; Adam, Beate; Schwevers, Ulrich; **Tuhtan, Jeffrey Andrew** Ethohydraulik : Eine Methode für naturverträglichen Wasserbau 2021 / S. 1-9 [https://doi.org/10.1007/978-3-658-32824-5\\_1](https://doi.org/10.1007/978-3-658-32824-5_1)

**Environmentally adaptive fish or no-fish classification for river video fish counters using high-performance desktop and embedded hardware**

**Soom, Jürgen; Pattanaik, Vishwajeet; Leier, Mairo; Tuhtan, Jeffrey Andrew** Ecological Informatics 2022 / art. 101817, 14 p. : ill <https://doi.org/10.1016/j.ecoinf.2022.101817> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Estimating fish swimming speed using non-invasive backpacksensors in a laboratory flume at high flow velocities**

**Kopecki, Iana; Tuhtan, Jeffrey Andrew;** Wagner, Falko; Roessger, Tom; Hägele, Tobias; Schneider, Matthias; Hoerner, Stefan Proceedings of the 15th International Symposium on Ecohydraulics and Fish Passage 2024 (ISE-FP) 2024 / 1 p. [https://www.sjweb.de/pdf/ISE\\_QuebecBackpackSensors\\_FishSpeed.pdf](https://www.sjweb.de/pdf/ISE_QuebecBackpackSensors_FishSpeed.pdf)

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

**Ethohydraulics : a method for nature-compatible hydraulic engineering**

Lehmann, Boris; Bensing, Katharina; Adam, Beate; Schwevers, Ulrich; **Tuhtan, Jeffrey Andrew** 2022 <https://doi.org/10.1007/978-3-658-35416-9>

**Ethohydraulik : Eine Methode für naturverträglichen Wasserbau**

Lehmann, Boris; Bensing, Katharina; Adam, Beate; Schwevers, Ulrich; **Tuhtan, Jeffrey Andrew** 2021 <https://doi.org/10.1007/978-3-658-32824-5>

**Fischverhalten besser verstehen mithilfe von Multiparameterdaten**

Bensing, Katharina; **Tuhtan, Jeffrey Andrew;** Lehmann, Boris 45. Dresdner Wasserbaukolloquium 2022 : „Nachhaltigkeit im Wasserbau – Umwelt, Transport, Energie“ : Technische Universität Dresden – Fakultät Bauingenieurwesen Institut für Wasserbau und Technische Hydromechanik 2022 / S. 103-113 : ill [https://henry.baw.de/bitstream/20.500.11970/108930/1/10\\_Fischverhalten\\_Multiparameterdaten\\_Bensing\\_.pdf](https://henry.baw.de/bitstream/20.500.11970/108930/1/10_Fischverhalten_Multiparameterdaten_Bensing_.pdf)

**Fish body geometry reduces the upstream velocity profile in subcritical flowing waters**

Bensing, Katharina; **Tuhtan, Jeffrey Andrew; Toming, Gert; Khan, Ali Hassan;** Lehmann, Boris Aquatic sciences 2022 / p. 1-14 : ill <https://doi.org/10.1007/s00027-022-00863-6> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Fish downstream passage over weirs at low-head hydropower plants : field study of total dissolved gas concentrations**

Süss, Gabor; Albayrak, Ismail; Evers, Frederic M.; **Tuhtan, Jeffrey Andrew;** Boes, Robert Proceedings of the 10th International Symposium on Hydraulic Structures 2024 / p. 750 - 759 : ill <https://doi.org/10.3929/ethz-b-000676021>

**Fish fauna and fisheries of large European rivers: examples from the Volga and the Danube**

Schletterer, Martin; Kuzovlev, Vyacheslav V.; Zhenikov, Yuri N.; **Tuhtan, Jeffrey Andrew** Hydrobiologia 2018 / p. 45-60 : ill <https://doi.org/10.1007/s10750-017-3370-5> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Fish under pressure : Examining behavioural responses of Iberian barbel under simulated hydropeaking with instream structures**

Costa, Maria Joao; **Fuentes-Pérez, Juan Francisco;** Boavida, Isabel; **Tuhtan, Jeffrey Andrew;** Pinheiro, Antonio N. PLoS ONE 2019 / art. e021111525, 25 p. : ill <https://doi.org/10.1371/journal.pone.0211115> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**A fish-friendly axial flow pump turns out to be eel safe, roach unfriendly and bream unsafe**

Bruneel, Stijn; Pauwels, Ine S.; **Broos, Sarah;** Vandamme, Lore; Van Wichelen, Jeroen; Coeck, Johan; **Toming, Gert; Tuhtan, Jeffrey Andrew;** Buysse, David Scientific reports 2024 / art. 30234, 18 p. : ill <https://doi.org/10.1038/s41598-024-81095-6> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**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 / [4] p. : 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 / p. 1125-1130 : ill <https://doi.org/10.1109/ICRA.2015.7139317> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

**Flow sensing with pressure sensor-based artificial lateral lines : from the laboratory to the field = Veevoolu tajumine**

**rõhusensoritel baseeruvate küljejooneanduritega : laborist välikatseteni**  
**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> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Flussabwärts gerichtete Fischwanderung an mittelgroßen Fließgewässern in Österreich**

Schneider, Josef; Ratschan, Clemens; Heisey, Paul; **Tuhtan, Jeffrey Andrew** Wasserwirtschaft 2017 / S. 39-44 : ill <https://www.springerprofessional.de/flussabwaerts-gerichtete-fischwanderung-an-mittelgrossen-fluessg/15274054> <https://doi.org/10.1007/s35147-017-0207-0> [Journal metrics at Scopus](#) [Article at Scopus](#)

**Forschung und Technik**

Rost, Ulrich; Weibel, Uwe; Wüst, Steffen; **Fuentes-Pérez, Juan Francisco; Tuhtan, Jeffrey Andrew** Biologische Durchgängigkeit von Fließgewässern : Ausgewählte Beiträge aus der Fachzeitschrift WasserWirtschaft 2017 / S. 491-602 [http://dx.doi.org/10.1007/978-3-658-13990-2\\_6](http://dx.doi.org/10.1007/978-3-658-13990-2_6)

**A fuzzy rule-based model for the assessment of macrobenthic habitats under hydropeaking impact**

Schneider, Matthias; Kopecki, Janina; **Tuhtan, Jeffrey Andrew** River research and applications 2017 / p. 377-387 : ill <http://dx.doi.org/10.1002/rra.3079>

**Genetische Analysen von Fischbeständen: Populationsgenetik und eDNA**

Weiss, Steven; Deiner, Kristy; **Tuhtan, Jeffrey Andrew**; Gumpinger, Clemens; Schletterer, Martin Wasserwirtschaft 2018 / S. 22-29 : ill <https://www.springerprofessional.de/genetische-analysen-von-fischbestaenden-populationsgenetik-und-e/15499156> <https://doi.org/10.1007/s35147-018-0008-0> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**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](#)

**Hydroacoustic and pressure turbulence analysis for the assessment of fish presence and behavior upstream of a vertical trash rack at a run-of-river hydropower plant**

Schmidt, Marc B.; **Tuhtan, Jeffrey Andrew**; Schletterer, Martin Applied sciences 2018 / art. 1723, 20 p. : ill <https://doi.org/10.3390/app8101723> [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

**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](https://doi.org/10.1007/978-3-319-42417-0_55) [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Conference Proceedings at WOS](#) [Article at WOS](#)

**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](#)

**Impacts and risks of hydropower**

Treeck, Ruben van; Geist, Juergen; Pander, Joachim; **Tuhtan, Jeffrey Andrew**; Wolter, Christian Novel Developments for Sustainable Hydropower 2022 / p. 41-60 [https://doi.org/10.1007/978-3-030-99138-8\\_4](https://doi.org/10.1007/978-3-030-99138-8_4)

**Improving the reliability of underwater gait analysis using wearable pressure and inertial sensors**

**Monoli, Cecilia**; Galli, Manuela; **Tuhtan, Jeffrey Andrew** PLoS One 2024 / e0300100, 15 p <https://doi.org/10.1371/journal.pone.0300100> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**In water and on land forward and backward spatiotemporal gait characteristics**

**Monoli, Cecilia**; Galli, Manuela; **Tuhtan, Jeffrey Andrew** 8th Congress of the European Society of Biomechanics, July 9-12, 2023, Maastricht, the Netherlands 2023 [https://www.researchgate.net/publication/372419899\\_IN\\_WATER\\_AND\\_ON\\_LAND\\_FORWARD\\_AND\\_BACKWARD\\_SPATIOTEMPORAL\\_GAIT\\_CHARACTERISTICS](https://www.researchgate.net/publication/372419899_IN_WATER_AND_ON_LAND_FORWARD_AND_BACKWARD_SPATIOTEMPORAL_GAIT_CHARACTERISTICS)

### **Influence of operation modes and fish behavior on fish passage through turbines**

Stoltz, Ulli; Geiger, Franz; **Tuhtan, Jeffrey Andrew** IOP Conference Series: Earth and Environmental Science ; 774 2021 / art. 012125 <https://doi.org/10.1088/1755-1315/774/1/012125> [Conference Proceedings at Scopus](#) [Article at Scopus](#) [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 <https://doi.org/10.1109/TIM.2015.2499019> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Kamerabasiertes Monitoring von Fischen in Deutschland und der Schweiz**

Haas, Christian; Meyer, Matthias; Schmalz, Maria; **Tuhtan, Jeffrey Andrew** WasserWirtschaft 2024 / p. 19 - 29 <https://doi.org/10.1007/s35147-024-2401-1> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Land and underwater gait analysis using wearable IMU**

Monoli, Cecilia; Fuentez-Perez, Juan Francisco; Cau, Nicola; Capodaglio, Paolo; Galli, Manuela; **Tuhtan, Jeffrey Andrew** IEEE sensors journal 2021 / p. 11192-11202 <https://doi.org/10.1109/JSEN.2021.3061623> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Leitströmung an Fischaufstiegsanlagen : Bewertung und Optimierung über ethohydraulische Modellierung**

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

### **Lightweight assimilation of open urban ambient air quality monitoring data and numerical simulations with unknown uncertainty**

**Miasayedava, Lizaveta**; **Kaugerand, Jaanus**; **Tuhtan, Jeffrey Andrew** Environmental modeling & assessment 2023 / p. 961–975 <https://doi.org/10.1007/s10666-023-09909-x> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Lightweight open data assimilation of Pan-European urban air quality**

**Miasayedava, Lizaveta**; **Kaugerand, Jaanus**; **Tuhtan, Jeffrey Andrew** IEEE access 2023 / p. 84670–84688 : ill., map <https://doi.org/10.1109/ACCESS.2023.3302348> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Luude seisundit uuritakse kaaluta olekus**

Imeline Teadus 2024 / lk. 20 : fot [https://www.ester.ee/record=b2747925\\*est](https://www.ester.ee/record=b2747925*est)

### **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](#)

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

### **Monitoring upstream fish passage through a bypass pipe and drop at the fish lift Runserau : comparing dynamic pressure measurements on live fish with passive electronic fish surrogates**

**Tuhtan, Jeffrey Andrew**; **Fuentes-Pérez, Juan Francisco**; Angerer, Thomas; Schletterer, Martin 2018 / 4 p. : ill <https://amber.international/event/12th-international-symposium-on-ecohydraulics-ise-2018/> <https://www.etis.ee/Portal/Publications/Display/909d1462-ad33-4f9e-a319-8718098cb63e>

### **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

### **Multiscale change detection in a supraglacial stream using surface drifters**

**Tuhtan, Jeffrey Andrew**; **Kruusmaa, Maarja**; Alexander, Andreas; **Fuentes-Pérez, Juan Francisco** River Flow 2020 Proceedings of the 10th Conference on Fluvial Hydraulics (Delft, Netherlands, 7-10 July 2020): River Flow 2020, Online, 7-10 July 2020 2020 / p. 1483-1492 <https://doi.org/10.1201/b22619>

### **Multi-species assessment of injury, mortality, and physical conditions during downstream passage through a large Archimedes hydrodynamic screw (Albert Canal, Belgium)**

Pauwels, Ine S.; Baeyens, Raf; **Toming, Gert; Tuhtan, Jeffrey Andrew** Sustainability 2020 / art. 8722, 25 p. : ill  
<https://doi.org/10.3390/su12208722> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **A new, non-invasive fish backpack biologist to measure the physical conditions experienced by swimming fish during downstream passage**

Wagner, Falko; Busch, Andre; Buysse, David; Hoerner, Stefan; Kenndorf, Moritz; Pouwels, Ine; Rössger, Tom; Roth, Marcio Salgueiro; Schletterer, Martin; Stamm, Jürgen; **Toming, Gert; Tuhtan, Jeffrey Andrew** Fish Passage 2022 : Opportunities and Innovation in a Changing World : 13–16 June 2022 / p. 147 [https://fishpassage.fisheries.org/wp-content/uploads/sites/57/2022/08/FPC\\_Program\\_YouTube-Links.pdf](https://fishpassage.fisheries.org/wp-content/uploads/sites/57/2022/08/FPC_Program_YouTube-Links.pdf)

### **Not just the pump; broader considerations for downstream migrating silver eels at a 'fishfriendly' pumping station**

Evans, Oliver; Bolland, Jonathan; Carter, Liam; Hutchinson, Thomas; Collier, Stephen; Don, Andrew; Wright, Rosalind; **Tuhtan, Jeffrey Andrew; Toming, Gert** Fish Passage 2022 : Opportunities and Innovation in a Changing World : 13–16 June 2022 / p. 34 [https://fishpassage.fisheries.org/wp-content/uploads/sites/57/2022/08/FPC\\_Program\\_YouTube-Links.pdf](https://fishpassage.fisheries.org/wp-content/uploads/sites/57/2022/08/FPC_Program_YouTube-Links.pdf)

### **A novel approach for aquatic gait analysis using wearable inertial and hydrodynamic pressure sensors = Uudne lähenemisviis veelase kõnnaku analüüsiks, kasutades kantavaid inertsiaalseid ja hüdrodünaamilisi rõhuandureid**

**Monoli, Cecilia** 2024 [https://www.ester.ee/record=b5685206\\*est](https://www.ester.ee/record=b5685206*est) <https://digikogu.taltech.ee/et/Item/f6ca5db2-99f6-48c2-98f8-c6ae343ddf7f>  
<https://doi.org/10.23658/taltech.22/2024>

### **Numerical simulation and experimental verification of downstream fish migration in a bulb turbine**

Benigni, Helmut; Schneider, Josef; **Reckendorfer, Walter**; Schiffer, J.; **Tuhtan, Jeffrey Andrew**; Leithner, S.; Zenz, Gerald; Meusburger, P. 31st IAH Symposium on Hydraulic Machinery and Systems 26/06/2022 - 01/07/2022 Trondheim, Norway. Vol. 1079 2022 / 10 p. : ill <https://doi.org/10.1088/1755-1315/1079/1/012101> [Conference proceedings at Scopus](#) [Article at Scopus](#)

### **Numerical simulation and experimental verification of downstream fish migration in a Kaplan turbine**

Benigni, Helmut; Schneider, Josef; Reckendorfer, Walter; Jaberg, Helmut; Zenz, Gerald; **Tuhtan, Jeffrey Andrew** IOP Conference Series: Earth and Environmental Science ; 774 2021 / art. 012149 <https://doi.org/10.1088/1755-1315/774/1/012149> [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

### **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](https://doi.org/10.1007/978-3-030-54249-8_48) [Conference proceedings 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](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Open environmental data assimilation under unknown uncertainty and multiple spatio-temporal scales [Electronic resource] = Keskkonna avaandmete assimilatsioon tundmatu määramatuse ning erinevate aeg-ruumi skaalade korral**

**Miasayedava, Lizaveta** 2024 [https://www.ester.ee/record=b5673370\\*est](https://www.ester.ee/record=b5673370*est) <https://digikogu.taltech.ee/et/Item/9084dbfd-dadb-4f0c-b146-781bc6a5c487> <https://doi.org/10.23658/taltech.13/2024>

### **An open surface drifter for river flow field characterization**

Fuentes-Pérez, Juan Francisco; Sanz-Ronda, Francisco Javier; **Tuhtan, Jeffrey Andrew** Sensors 2022 / art. nr. 9918 <https://doi.org/10.3390/s22249918> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **A Pan-European environmental flow concept**

Parasiewicz, Piotr; **Tuhtan, Jeffrey Andrew**; Prus, Pawel; Suska, Katarzyna Riverine landscapes as coupled socio-ecological systems : 6th biennial Symposium of the International Society for River Science : book of abstracts 2019 / p. 108 [https://www.bib.irb.hr/1025362/download/1025362.ISRS2019\\_book\\_of\\_abstracts.pdf](https://www.bib.irb.hr/1025362/download/1025362.ISRS2019_book_of_abstracts.pdf)

### **Philosophie und Methode : Fachdisziplin Ethohydraulik – wie geht das?**

Lehmann, Boris; Bensing, Katharina; Adam, Beate; Schwevers, Ulrich; **Tuhtan, Jeffrey Andrew** Ethohydraulik : Eine Methode für naturverträglichen Wasserbau 2021 / S. 11-22 [https://doi.org/10.1007/978-3-658-32824-5\\_2](https://doi.org/10.1007/978-3-658-32824-5_2)

### **Pressure and inertia sensing drifters for glacial hydrology flow path measurements**

Alexander, Andreas; **Kruusmaa, Maarja; Tuhtan, Jeffrey Andrew**; Hodson, Andrew J.; Schuler, Thomas V.; Käab, Andreas The cryosphere 2020 / p. 1009-1023 <https://doi.org/10.5194/tc-14-1009-2020> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics 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

## Projekte und Praxis

Meyer, Matthias; Schweizer, Steffen; Göz, Daniel; **Tuhtan, Jeffrey Andrew** Biologische Durchgängigkeit von Fließgewässern : Ausgewählte Beiträge aus der Fachzeitschrift WasserWirtschaft 2017 / S. 181-295 [https://doi.org/10.1007/978-3-658-13990-2\\_3](https://doi.org/10.1007/978-3-658-13990-2_3)

**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 [https://doi.org/10.1007/978-3-319-43518-3\\_29](https://doi.org/10.1007/978-3-319-43518-3_29) [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Conference Proceedings at WOS](#) [Article at WOS](#)

**RAPTOR-UAV : real-time particle tracking in rivers using an unmanned aerial vehicle**  
Thumser, Philipp; Haas, Christian; **Tuhtan, Jeffrey Andrew; Fuentes-Pérez, Juan Francisco; Toming, Gert** Earth surface processes and landforms 2017 / p. 2439-2446 : ill <https://doi.org/10.1002/esp.4199> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**The relevance of fluid-body interactions for habitat selection of two Iberian cyprinids during hydropeaking**  
Costa, Maria Joao; Godinho, Francisco; Romao, Filipe; Fuentes-Perez, Juan Francisco; **Tuhtan, Jeffrey Andrew**; Pinheiro, Antonio N.; Boavida, Isabel Proceedings 39th IAHR World Congress 2022 / p. 1454-1459 <https://doi.org/10.3850/IAHR-39WC2521711920221269>

**Research overview on multi-species downstream migration measures at the fithydro test case HPP Bannwil**  
Kriewitz-Byun, Carl Robert; **Tuhtan, Jeffrey Andrew; Toming, Gert**; Albayrak, Ismail; Kammerer, Stephan; Vetsch, David Florian; Peter, Armin; Stoltz, Ulli; Gabl, Walter; Marbacher, Daniel FITHydro 2018 / 5 p. : ill <https://doi.org/10.3929/ethz-b-000308171>

**Rethinking fish-friendliness of pumps by shifting focus to both safe and timely fish passage for effective conservation**  
Evans, Oliver J.; Norman, Josh; Carter, Liam J.; Hutchinson, T.; Don, A.; Wright, Rosalind M.; **Tuhtan, Jeffrey Andrew; Toming, Gert**; Bolland, Jonathan D. Scientific reports 2024 / art. 17888, 12 p. : ill <https://doi.org/10.1038/s41598-024-67870-5> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Rivers 2.0 - transforming rivers into digital landscapes using unmanned aerial vehicles**  
Haas, Christian; Thumser, Philipp; **Tuhtan, Jeffrey Andrew** Hydrolink 2019 / p. 13-15 : ill [https://fithydro.eu/wp-content/uploads/2019/03/HaasC.\\_ThumserP.\\_Tuhtan.J.A.\\_2019\\_Rivers-2.0-Transforming\\_-Rivers\\_-into\\_-Digital\\_-Landscapes\\_Hydrolink.pdf](https://fithydro.eu/wp-content/uploads/2019/03/HaasC._ThumserP._Tuhtan.J.A._2019_Rivers-2.0-Transforming_-Rivers_-into_-Digital_-Landscapes_Hydrolink.pdf)

**Robotkala mõõtis, mida tunneb päriskala veehulga järsul muutumisel**  
Himma, Marju novaator.err.ee 2019 <https://novaator.err.ee/922869/robotkala-mootis-mida-tunneb-pariskala-veehulga-jarsul-muutumisel>

**Salmon behavioural response to robots in an aquaculture sea cage**  
**Kruusmaa, Maarja; Gkliva, 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](#)

**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>

**Smart fish counter for monitoring species, size, migration behaviour and environmental conditions**  
**Tuhtan, Jeffrey Andrew; Dubrovinskaya, Elizaveta; Miasayedava, Lizaveta; Pattanaik, Vishwajeet; Soom, Jürgen**; Mockenhaupt, Bernd; Schütz, Cornelia; Haas, Christian; Thumser, Philipp 14th International Symposium on Ecohydraulics (ISE 2022) : October 10-14, 2022 : Nanjing, China 2022 / p. 1-4 : ill [https://iahr.oss-accelerate.aliyuncs.com/upload/file/20221009/20221009192625\\_67371.docx](https://iahr.oss-accelerate.aliyuncs.com/upload/file/20221009/20221009192625_67371.docx)

**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](#)

**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](#)

**Zur Bedeutung bioinspirierter Messtechnik in der Ethohydraulik**  
Bensing, Katharina; Lehmann, Boris; **Tuhtan, Jeffrey Andrew; Toming, Gert** Wasserwirtschaft 2024 / p. 26-33 <https://doi.org/10.1007/s35147-024-2412-y> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**TalTechi IT-teadlased hakkavad uurima luude tervist mikrogravitatsioonis**  
mu.ee 2024 [TalTechi IT-teadlased hakkavad uurima luude tervist mikrogravitatsioonis](#) [IT-teadlased hakkavad uurima luude tervist](#)

**TalTechi teadlane : Eestis loodud veealused kaamerad aitavad jõgesid üle Euroopa taaselustada ja kaardistada veealust liiklust**

**Tuhtan, Jeffrey Andrew** geenius.ee 2022 [TalTechi teadlane : Eestis loodud veealused kaamerad aitavad jõgesid üle Euroopa taaselustada ja kaardistada veealust liiklust](#)

**The EcoPeak4Fish Project : an integrated approach to support self-sustaining fish populations downstream hydropower plants**

Boavida, Isabel; Santos, Jose Maria; Costa, Maria Joao; Leite, Renan; Portela, Maria Manuela; Godinho, Francisco; Leitao, Pedro; Mota, Rui; **Tuhtan, Jeffrey Andrew**; Pinheiro, Antonio N. Proceedings 39th IAHR World Congress 2022 / p. 1434-1438  
<https://doi.org/10.3850/IAHR-39WC2521711920221160>

**The RETERO Project : 3R motivated risk assessment methods for downstream fish passage through hydraulic structures**

Hoerner, Stefan; Abbaszadeh, Shokoofeh; Busch, Andre; Kopecki, Ianina; Leidhold, Roberto; Müller, Nadine; Powalla, Dennis; Rössger, Tom; Roth, Marcio Salgueiro; Schneider, Matthias; Stamm, Jürgen; Thevenin, Dominique; **Toming, Gert; Tuhtan, Jeffrey Andrew**; Wagner, Falko; Warth, Peter 14th International Symposium on Ecohydraulics (ISE 2022) : October 10-14, 2022 : Nanjing, China 2022 / p. 1-5 : ill [https://iahr.oss-accelerate.aliyuncs.com/upload/file/20221009/20221009192646\\_12566.pdf](https://iahr.oss-accelerate.aliyuncs.com/upload/file/20221009/20221009192646_12566.pdf)

**This fish does not exist : fish species dataset augmentation using stable diffusion**

**Dubrovinskaya, Elizaveta; Tuhtan, Jeffrey Andrew** OCEANS 2023 - Limerick 2023 / 6 p.  
<https://doi.org/10.1109/OCEANSLimerick52467.2023.10244720>

**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](#)

**Towards a reliable and validated toolbox to replace live fish tests for the assessment of injury and mortality during downstream passage**

Hoerner, Stefan; **Kösters, Wolf Irling**; Abbaszadeh, Shokoofeh; Wagner, Falko; **Tuhtan, Jeffrey Andrew** Proceedings of the 15th International Symposium on Ecohydraulics and Fish Passage 2024 (ISE-FP) 2024 / p. 1 <https://hal.science/hal-04642604>

**Towards understanding fish behavior near an angled rack : an approach for fish tracing using open-source software**

Kopecki, Ianina; Schneider, Matthias; Bensing, Katharina; Lehmann, Boris; Becker, Andreas; Ortlepp, Johannes; **Tuhtan, Jeffrey Andrew** 14th International Symposium on Ecohydraulics (ISE 2022) : October 10-14, 2022 : Nanjing, China 2022 / p. 1-2  
[https://iahr.oss-accelerate.aliyuncs.com/upload/file/20221009/20221009195954\\_71750.docx](https://iahr.oss-accelerate.aliyuncs.com/upload/file/20221009/20221009195954_71750.docx)

**Täielik kosmos! TalTechi teadlased osalevad murrangulises terviseprojekti**

digi.geenius.ee 2024 [Täielik kosmos! TalTechi teadlased osalevad murrangulises terviseprojekti](#)

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

**Fuentes-Pérez, Juan Francisco; Kalem, 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](#)

**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

**Wearable technologies for monitoring aquatic exercises : a systematic review**

**Monoli, Cecilia; Tuhtan, Jeffrey Andrew**; Piccinini, Luigi; Galli, Manuela Clinical Rehabilitation 2023 / p. 791-807  
<https://doi.org/10.1177/02692155221141039> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Viis kolleegi uuel positsioonil**

**Pärgmäe, Reet; Karolin, Aet; Hanson, Raul; Lill, Irene; Tuhtan, Jeffrey Andrew** Mente et Manu 2021 / lk. 25-27 : portr [Mente et](#)

## **Vorwort**

Lehmann, Boris; Bensing, Katharina; Adam, Beate; Schwevers, Ulrich; **Tuhtan, Jeffrey Andrew** Ethohydraulik : Eine Methode für naturverträglichen Wasserbau 2021 / S. VII-VIII <https://doi.org/10.1007/978-3-658-32824-5>