

A review of methods for leakage management in pipe networks

Puust, Raido; Kapelan, Zoran; Savic, D. A.; **Koppel, Tiit** Urban water journal 2010 / 1, p. 25-45 : ill

https://www.researchgate.net/publication/235694708_A_review_of_methods_for_leakage_management_in_pipe_networks

Accuracy assessment of RTK-GNSS equipped UAV conducted as-built surveys for construction site modelling

Varbla, Sander; Puust, Raido; Ellmann, Artu Survey review 2021 / p. 477-492 <https://doi.org/10.1080/00396265.2020.1830544>

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

Adoption of BIM-related international standards across Europe

Sibenik, Goran; Mizumoto, Juliana; Bosche, Frederic; Meda, Pedro; **Puust, Raido**; Akbarieh, Arghavan; Bolpagni, Marzia

Proceedings of the 2023 European Conference on Computing in Construction and the 40th International CIB W78 Conference 2023 / 7 p <https://doi.org/10.35490/EC3.2023.282>

An inverse approach for leakage identification in water distribution systems

Koppel, Tiit; Puust, Raido; Ainola, Leo XXIII Nordic Hydrological Conference ["Fresh Water Resources Management"] : Tallinn, Estonia, 8-12 August 2004 : selected articles. Vol. I 2004 / p. 342-349 : ill https://artiklid.elnet.ee/record=b2343456*est

Are environmental sustainability and happiness the keys to prosperity in Asian nations?

Kaklauskas, Arturas; Dias, W.P.S.; Binkyte-Veliene, Arune; Abraham, A.; **Ubarste, Ieva**; Randil, O.P.C.; **Lill, Irene; Puust, Raido**

Ecological indicators 2020 / art. 106562, 33 p <https://doi.org/10.1016/j.ecolind.2020.106562> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

AutoCAD 2011 on uuendusmeelsetele

Puust, Raido Inseneeria 2010 / 5, lk. 20-23 : ill https://artiklid.elnet.ee/record=b2098394*est

Background leakage assessment for BBLAWN

Vassiljev, Anatoli; Koppel, Tiit; Puust, Raido Procedia engineering 2014 / p. 111-117 : ill

<https://doi.org/10.1016/j.proeng.2014.11.166> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Boundary layer with heat load in transitional accelerating pipe flow

Ainola, Leo; Ekholm, Ari; Koppel, Tiit; Lähdeniemi, Matti; Puust, Raido Hydrodynamics V. Volume 1, Theory and applications : proceedings of the fifth International Conference on Hydrodynamics : Tainan, Oct. 31 - Nov. 2, 2002 2002 / p. 523-528 : ill

Calibration of the model of an operational water distribution system

Vassiljev, Anatoli; Koppel, Tiit; Puust, Raido CCWI 2005 : proceedings of the Eighth International Conference on Computing and Control for the Water Industry : Exeter, UK. Volume 1 2005 / p. 155-159 : ill

Centimetre-range deformations of built environment revealed by drone-based photogrammetry

Varbla, Sander; Ellmann, Artu; Puust, Raido Automation in Construction 2021 / art. 103787

<https://doi.org/10.1016/j.autcon.2021.103787> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Comparative studies of various E-learning teaching methodologies in civil engineering courses

Puust, Raido Futureproofing Engineering Education for Global Responsibility : Proceedings of the 27th International Conference on Interactive Collaborative Learning (ICL 2024) ; vol. 1 2025 / p. 534-546 https://doi.org/10.1007/978-3-031-85652-5_53

Controlling stormwater runoff from impermeable areas by using smart inlets

Kändler, Nils; Annus, Ivar; Vassiljev, Anatoli; Puust, Raido; Kaur, Katrin New trends in urban drainage modelling : UDM 2018 : Conference proceedings 2019 / p. 263-268 https://doi.org/10.1007/978-3-319-99867-1_44 [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Database driven hydraulic model creation procedure

Koor, Margus; Puust, Raido; Vassiljev, Anatoli; Koppel, Tiit WDSA 2012 : 14th Water Distribution Systems Analysis Conference : 24-27 September 2012 in Adelaide, South Australia 2012 / p. 407-414

https://www.researchgate.net/publication/289399341_Database_driven_hydraulic_model_creation_procedure

Database driven updatable hydraulic model for decision making

Koor, Margus; Puust, Raido; Vassiljev, Anatoli Procedia engineering 2014 / p. 959-968 : ill

<https://doi.org/10.1016/j.proeng.2014.02.107> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Decentralized real-time control platform for urban drainage systems in climate proof smart cities = Sademeveesüsteemide detsentraliseeritud juhtimissüsteemi platvorm kliimakindlates tarkades linnades

Kändler, Nils 2021 https://www.ester.ee/record=b5434231*est <https://digikogu.taltech.ee/et/Item/f02a02b2-da6e-4341-a69c-eba8d029e433> <https://doi.org/10.23658/taltech.32/2021>

Decreasing leakage and operational cost for BBLAWN

Vassiljev, Anatoli; Puust, Raido Journal of water resources planning and management 2016 / art. C4015011

[https://doi.org/10.1061/\(ASCE\)WR.1943-5452.0000612](https://doi.org/10.1061/(ASCE)WR.1943-5452.0000612) [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

The effect of printing direction on the strength characteristics of a 3D printed concrete wall section

Põldaru, Mattias; Tammkõrv, Karl; Tuisk, Tanel; Kiviste, Mihkel; Puust, Raido Buildings 2023 / art. 2917

<https://doi.org/10.3390/buildings13122917> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Ehitustegevuse kaardistamine kaugseirega

Puust, Raido Horisont 2020 / lk. 49-53 : fot https://www.ester.ee/record=b1072243*est

[e-õppe TTÜ teaduskondades ja kolledžites]

Puust, Raido; Kalda, Heljut; Jukk, Viivi; Veske, Heimar Mente et Manu 2011 / lk. 4 https://www.ester.ee/record=b1242496*est

An explorative analysis of European standards on building information modelling

Bolpagni, Marzia; Bosché, Frédéric; de Boissieu, Aurélie; Akbarieh, Arghavan; Shaw, Conor; Mêda, Pedro; **Puust, Raido**; Medineckiene, Milena; Popov, Vladimir; Sacks, Rafael Proceedings of the 2022 European Conference on Computing in Construction 2022 / p. 363-369 <https://doi.org/10.35490/EC3.2022.170>

Investigating the drop-out rate from a BIM course

Puust, Raido; Lill, Irene; Liias, Roode Proceedings of the 10th Nordic Conference on Construction Economics and Organization (CEO 2019), May 7-8, 2019, Tallinn, Estonia 2019 / p. 325-333 <https://doi.org/10.1108/S2516-285320190000002020>

Investigating the drop-out rate from a BIM for infrastructure course

Puust, Raido; Witt, Emlyn David Qivitoq; Lill, Irene; Liias, Roode Proceedings of the 2019 Conference of European Council on Computing in Construction (EC3) July 10–12, 2019 Chania, Crete, Greece 2019 / p. 229-236 <https://doi.org/10.35490/EC3.2019.149>

Kaugseire andmete kasutuselevõtt avalike teenuste väljatöötamisel ja arendamisel. Lisa 4, Ehitustegevuse planeerimine ja järelevalve : lõpparuanne

Puust, Raido; Varbla, Sander 2020 <https://doi.org/10.23673/re-254>

Kuidas lisada YouTube'i videoid oma kursusele?

Puust, Raido E-õppe uudiskiri 2012 / lk. 14-15 : ill

Kvaliteetsema digiõppe poole

Puust, Raido Postimees 2021 / Lk. 14 <https://dea.digar.ee/article/postimees/2021/05/13/12.10>

A mathematical model for the determination of leakage in mains and water distribution networks

Koppel, Tiit; Ainola, Leo; Puust, Raido Proceedings of the Estonian Academy of Sciences. Engineering 2007 / 1, p. 3-16 : ill

Modeling water supply system control system algorithms

Sunela, Markus; **Puust, Raido** Procedia engineering 2015 / p. 734-743 : ill <https://doi.org/10.1016/j.proeng.2015.08.927> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Modelling of stormwater discharge and quality in urban area

Koppel, Tiit; Vassiljev, Anatoli; Puust, Raido; Laanearu, Janek International journal of ecological science and environmental engineering 2014 / p. 80-90 : ill

Parametric modelling study for filling of horizontal pipe containing water

Laanearu, Janek; Annus, Ivar; Sergejeva, Monika; Koppel, Tiit; Puust, Raido WDSA 2012 : 14th Water Distribution Systems Analysis Conference : 24-27 September 2012 in Adelaide, South Australia 2012 / p. 678-693 https://www.researchgate.net/publication/286954531_Parametric_modelling_study_for_filling_of_horizontal_pipe_containing_water

Peak flow reduction from small catchments using smart inlets

Kändler, Nils; Annus, Ivar; Vassiljev, Anatoli; Puust, Raido Urban water journal 2020 / p. 577-586

<https://doi.org/10.1080/1573062X.2019.1611888> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Probabilistic leak detection in pipe networks using the SCEM-UA algorithm = Lekete tõenäosuse määramine torustikes algoritmi SCEM-UA abil

Puust, Raido 2007

Probabilistic leak detection in pipe networks using the SCEM-UA algorithm [Electronic resource]

Puust, Raido; Kapelan, Zoran; Savic, Dragan; Koppel, Tiit 8th Annual Water Distribution Systems Analysis Symposium : proceedings of WDSA 2006 : [Cincinnati, Ohio, USA], August 27-30, 2006 2006 / [12] p. : ill. [CD-ROM]

https://www.researchgate.net/publication/221936231_Probabilistic_Leak_Detection_in_Pipe_Networks_Using_the_SCEM-UA_Algorithm

Proovimiseks ehk liigagi uuenduslik tarkvara Revit MEP 2011

Puust, Raido Keskkonnatehnika 2010 / 5, lk. 36-38 : ill https://artiklid.elnet.ee/record=b2154952*est

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

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

Real time controlled sustainable urban drainage systems in dense urban areas

Kändler, Nils; Annus, Ivar; Vassiljev, Anatoli; Puust, Raido Journal of water supply : research and technology - AQUA 2020 / p. 238–247 : ill <https://doi.org/10.2166/aqua.2019.083>

Real time water supply system hydraulic and quality modeling - a case study

Sunela, Markus; Puust, Raido Procedia engineering 2015 / p. 744-752 : ill <https://doi.org/10.1016/j.proeng.2015.08.928> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Real water network comparative calibration studies considering the whole process from engineer's perspective

Puust, Raido; Vassiljev, Anatoli Procedia engineering 2014 / p. 702-709 : ill <https://doi.org/10.1016/j.proeng.2014.11.497> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Real-time control optimization of water distribution system with storage = Mahutitega veevarustussüsteemi juhtimise optimeerimine reaalajas

Sunela, Markus 2017 <https://digi.lib.ttu.ee/i/?9007> https://www.ester.ee/record=b4744261*est

Real-time whole-cost optimization of water production and distribution

Sunela, Markus; Puust, Raido 15th International Conference on Computing and Control for the Water Industry : CCWI 2017, 5th-7th September, 2017 : abstracts 2017 / p. 88 https://www.sheffield.ac.uk/polopoly_fs/1.726380!/file/Booklet.pdf

Real-time whole-cost optimization of water production and distribution

Sunela, Markus; Puust, Raido CCWI2017 : Computing and Control in the Water Industry Conference, 2017, Sheffield 2017 / 9 p. : ill https://figshare.com/collections/CCWI2017_Computing_and_Control_in_the_Water_Industry_Conference_2017_Sheffield/3867985/1

Reviewing the effectiveness of GPU power when used for water network optimization problems

Puust, Raido; Maddison, Madis; Laanearu, Janek Urban Water Management: Challenges and Opportunities : proceedings of the 11th International Conference on Computing and Control for the Water Industry (CCWI 2011), University of Exeter, 5-7 September 2011 2011 / p. 3-7 : ill https://www.researchgate.net/publication/262911610_Reviewing_the_effectiveness_of_GPU_power_when_used_for_water_network_optimization_problems

Road deformation monitoring using unmanned aerial vehicles

Varbla, Sander; Ellmann, Artu; Puust, Raido 30th International Baltic Road Conference August 23–24, 2021 : Abstracts 2021 / p. 58 https://balticroads.org/wp-content/uploads/2021/08/BRC_Abstracts_2021_V2.pdf

Simple visual tool to analyse pump battery efficiencies for various pump combinations

Sunela, Markus; Puust, Raido Procedia engineering 2014 / p. 525-532 : ill <https://doi.org/10.1016/j.proeng.2014.11.474> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Structuring BIM-related construction data through a standards-based classification system

Puust, Raido; Liias, Roode Proceedings of the 2023 European Conference on Computing in Construction and the 40th International CIB W78 Conference 2023 / p. 2684-1150 : ill <https://doi.org/10.35490/EC3.2023.204>

Use of error analysis for calibration of water distribution systems

Vassiljev, Anatoli; Koppel, Tiit; Puust, Raido Water Distribution System Analysis 2010 : WDSA2010 : Tucson, AZ, USA, Sept. 12-15, 2010 2010 / [13] p.: ill

Use of pressure differentials for calibration of the operational water distribution system

Vassiljev, Anatoli; Minguell Font, L.; Puust, Raido Water Management Challenges in Global Change : proceedings of the 9th Computing and Control for the Water Industry (CCWI2007) and Sustainable Urban Water Management (SUWM2007) Conferences : Leicester, UK, 3-5 September, 2007 2007 / p. 205-209 https://www.researchgate.net/publication/290278958_Use_of_pressure_differentials_for_calibration_of_the_operational_water_distribution_system

Using MOC based method to detect abnormal conditions in water networks with less computational effort

Puust, Raido; Sergejeva, Monika; Laanearu, Janek Proceedings of HIC 2012 : 10th International Conference on Hydroinformatics : Hamburg (Germany), July 14-18, 2012 2012

Water distribution model for decision-making with updatable data links

Puust, Raido; Koor, Margus; Vassiljev, Anatoli Journal of Water Supply: Research and Technology - AQUA 2015 / p. 596-609 :
joon <http://dx.doi.org/10.2166/aqua.2014.038>

**Water distribution system modelling and pumping optimization based on real network of Tallinn = Tallinna linna
ühisveevärgi modelleerimine ja pumpamise optimeerimine**

Koor, Margus 2015 https://www.ester.ee/record=b4478906*est

Veelekete hindamine veetorustikes SCEN-UI meetodil

Puust, Raido Inseneeria 2008 / 2, lk. 54-55 https://artiklid.elnet.ee/record=b2041648*est

**A visual tool to calculate optimal control strategy for non-identical pumps working in parallel, taking motor and VSD
efficiencies into account**

Sunela, Markus; Puust, Raido Water science & technology : water supply 2015 / p. 1115-1122 <https://doi.org/10.2166/ws.2015.069>
[Journal metrics at Scopus](#) [Article at Scopus](#) [Article at WOS](#)