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## Research profile

### Education

1997 Ph.D. Aalborg University, Department of Civil Engineering, Hydraulic and Coastal Engineering  
1992 Master of Science in environmental engineering, Aalborg University.

### Research interests

- Sensor technology, with emphasis in urban drainage application.
- Urban hydrology and climatology
- Computational fluid dynamics in environmental systems, ecohydrology and biohydrodynamics.

### Present appointments

Chairman of the Deans counsel at Aalborg University (2013-present)  
Deputy Chairman of the scientific ethics committee (PU) at Aalborg University (2017-present)  
Alternate member of the National Danish Committee on Research Misconduct (NVU) (2017-2021)  
Member of the National Danish Committee on Research Misconduct (NVU) (2021-2023)  
Member of the committee on equality and diversity at Aalborg University (ULD) (2017-present)  
Member of the Rain committee at Water Quality Committee (Spildevands komiteen) (2017-present)

### External project

Has participated in 20 national and international project the last 10 years with a total budget of approx. 200 million Dkr

## Publikationer

### Optimal control strategies for stormwater detention ponds

Goorden, M., Larsen, K. G., Nielsen, J. E., Nielsen, T. D., Qian, W., Rasmussen, M. R., Srba, J. & Zhao, G., aug. 2024, I: Nonlinear Analysis: Hybrid Systems. 53, 101504.

### Can stormwater runoff measurements be used for weather radar rainfall adjustment?

Nielsen, J. M., Rasmussen, M. R., Thorndahl, S. L., Ahm, M. K. S. & Nielsen, J. E., 1 maj 2024, I: Journal of Hydroinformatics. 26, 5, s. 935–953 19 s.

### Merging weather radar data and opportunistic rainfall sensor data to enhance rainfall estimates

Nielsen, J. M., van de Beek, C. Z. R., Thorndahl, S., Olsson, J., Andersen, C. B., Andersson, J. C. M., Rasmussen, M. R. & Nielsen, J. E., 15 apr. 2024, I: Atmospheric Research. 300, 107228.

### Model-based prediction of bathing water quality in a lake polluted by fecal coliform bacteria from combined sewer overflows

Thorndahl, S., Nielsen, J. M. & Rasmussen, M. R., 1 jan. 2024, I: Journal of Environmental Management. 349, 14 s., 119483.

### RADIATE – Radarprognoser til vandsektoren: DANVA VUDP Projekt rapport

Ahm, M. S., Laursen, R., Nielsen, J. M., Rasmussen, M. R. & Nielsen, J. E., 2024, Aalborg: Institut for Byggeri, By og Miljø (BUILD), Aalborg Universitet. 97 s. (DCE Technical Reports; Nr. 320).

**Determine stormwater pond geometrics and hydraulics using remote sensing technologies: a comparison between airborne-LiDAR and UAV-photogrammetry field validation against RTK-GNSS**

Zhao, G., Rasmussen, M. R., Larsen, K. G., Srba, J., Nielsen, T. D., Goorden, M., Qian, W. & Nielsen, J. E., 1 jul. 2023, I: *Journal of Hydroinformatics*. 25, 4, s. 1256-1275 20 s., 1257.

**Evaluation and integration of professional and opportunistic high-resolution rainfall observations in the Øresund region**

Beek, R. V. D., Nielsen, J. M., Thorndahl, S. L., Olsson, J., Anderson, J. C. M., Nielsen, J. E. & Rasmussen, M. R., 2023.

**Guaranteed safe controller synthesis for switched systems using analytical solutions**

Goorden, M., Larsen, K. G., Nielsen, J. E., Nielsen, T. D., Qian, W., Rasmussen, M. R. & Zhao, G., 2023, *2023 IEEE Conference on Control Technology and Applications, CCTA 2023*. IEEE (Institute of Electrical and Electronics Engineers), s. 784-790 7 s. (IEEE Conference on Control Technology and Applications (CCTA) - Proceedings).

**Monitoring af Overfladeafstrømning fra grønne områder II (MOTO): DANVA VUDP projektrapport**

Nielsen, K. T., Duus, L. B., Rasmussen, M. R., Thorndahl, S. L., Møldrup, P., Svenningsen, R. S., Uggerby, M. & Rasmussen, S. H., 2022, København: Dansk Vand- og Spildevandsforening (DANVA). 36 s.

**Learning Safe and Optimal Control Strategies for Storm Water Detention Ponds**

Goorden, M., Larsen, K. G., Nielsen, J. E., Nielsen, T. D., Rasmussen, M. R. & Srba, J., 2021, *IFAC-PapersOnLine: 7th IFAC Conference on Analysis and Design of Hybrid Systems*. 5 udg. Elsevier, Bind 54. s. 13-18 6 s. (IFAC-PapersOnLine; Nr. 5, Bind 54).

**Safe Recreational Lake Waters II: Protection and warning against faecal bacteria and toxic algae in bathing lakes**

Markfoged, R., Friis-Holm, L. B., Jonassen, S., Starcke, S., Rasmussen, M. R., Thorndahl, S. L., Nielsen, J. M. & Møller, S. T., 2021, s. 1.

**DANVA VUDP projektrapport: Vejrradardata – Tilpasset og klar til anvendelse for hele vandsektoren og deres kunder**

Ahm, M. S., Jesuloganathan, Y. M., Rasch, P., Jensen, D. G., Nielsen, J. E. & Rasmussen, M. R., 2020, Aalborg: Institut for Byggeri, By og Miljø (BUILD), Aalborg Universitet. 52 s. (DCE Technical Reports; Nr. 297).

**Hydraulic effects of stormwater discharge into a small stream**

Thomsen, A. T. H., Nielsen, J. E., Riis, T. & Rasmussen, M. R., 2020, I: *Journal of Environmental Management*. 270, September 2020, 110793.

**Modeling of Subsurface Throughflow in Urban Pervious Areas**

Nielsen, K. T., Nielsen, J. E., Uggerby, M. & Rasmussen, M. R., 2020, I: *Journal of Hydrologic Engineering*. 25, 12, 04020050.

**Field-Scale Monitoring of Urban Green Area Rainfall-Runoff Processes**

Nielsen, K., Møldrup, P., Thorndahl, S. L., Nielsen, J. E., Uggerby, M. & Rasmussen, M. R., 1 aug. 2019, I: *Journal of Hydrologic Engineering*. 24, 8, 04019022.

**Estimation of Storm-Centred Areal Reduction Factors from Radar Rainfall for Design in Urban Hydrology**

Thorndahl, S. L., Nielsen, J. E. & Rasmussen, M. R., 1 jun. 2019, I: *Water*. 11, 6, 1120.

**Areal rainfall from radar in urban drainage analysis and design – some reflections on implementation in Denmark**

Thorndahl, S. L., Andersen, C. B., Nielsen, J. E. & Rasmussen, M. R., 2019, *Rainfall Monitoring, Modelling and Forecasting in Urban Environment. UrbanRain18: 11th International Workshop on Precipitation in Urban Areas. Conference Proceedings*. Peleg, N. & Molnar, P. (red.). ETH-Zürich, Institute of Environmental Engineering, s. 119-120 2 s. (Rainfall Monitoring, Modelling and Forecasting in Urban Environment. UrbanRain18: 11th International Workshop on Precipitation in Urban Areas. Conference Proceedings).

**Use of weather radar in the water sector in Denmark; what can we learn?**

Thorndahl, S. L., Ahm, M., Nielsen, R., Andersen, C. B., Nielsen, J. E. & Rasmussen, M. R., 2019, s. 23-24. 2 s.

**Can the volume ratio of coarse to fine particles explain the hydraulic properties of sandy soil?**

Nielsen, J. E., Karup, D., De Jonge, L. W., Ahm, M., Bentzen, T. R., Rasmussen, M. R. & Moldrup, P., 2018, I: Soil Science Society of America Journal. 82, 5, s. 1093-1100

**Return period assessment of urban pluvial floods through modelling of rainfall-flood response**

Tuyls, D. M., Thorndahl, S. L. & Rasmussen, M. R., 2018, I: Journal of Hydroinformatics. 20, 4, s. 829-845 17 s.

**Sikkert søbad: Overvågning, rensning og varsling af regnvandsbetingede overløb**

Bastrup, J., Bastholm, S., Kilian, R., Stjernholm, K., Rasmussen, M. R., Friis-Holm, L. B., Jonassen, S., Olesen, K., Pors, J., Starcke, S., Thorndahl, S. L. & Rebsdorf, M. L., 2018, Aarhus: Miljøstyrelsen. 48 s.

**Can weather radar improve the bathing quality in a harbor?**

Rasmussen, M. R., Nielsen, J. E., Ahm, M. & Thorndahl, S. L., 2017, *2017 International Symposium Weather Radar and Hydrology*. Seoul: Korea Institute of Civil Engineering and Building Technology, Korea University, s. 128

**Combining high resolution X-band and long range C-band measurements for radar nowcasting**

Nielsen, J. E., Thorndahl, S. L., Ahm, M. & Rasmussen, M. R., 2017, *2017 International Symposium Weather Radar and Hydrology*. Seoul: Korea Institute of Civil Engineering and Building Technology, Korea University, s. 215

**Controlling the hydraulic impact of discharge from storm water detention ponds into streams**

Thomsen, A. T. H., Moeslund, T. B., Jensen, G. P., Nielsen, J. E., Pedersen, M. L. & Rasmussen, M. R., 2017, *Conference Proceedings: 14th IWA/IAHR International Conference on Urban Drainage*. IWA/IAHR International Conference on Urban Drainage, s. 821-824 ICUD-0364

**Field station to quantify overland runoff from urban green areas**

Nielsen, K., Duus, L. B., Møldrup, P., Thorndahl, S. L., Rasmussen, S. H., Uggerby, M. & Rasmussen, M. R., 2017, *Conference Proceedings: 14th IWA/IAHR International Conference on Urban Drainage*. IWA/IAHR International Conference on Urban Drainage, s. 35-38 ICUD-0061

**Forudsigelse af nedbør til hydrologiske prognoser**

Sass, B. H., Petersen, C., Gill, R., Bøvith, T., Jensen, D. G. & Rasmussen, M. R., 2017, I: Vand & Jord. 24, 2, s. 44-47

**Hydrologisk realtids monitorering og prognoser - muligheder og udfordringer**

Madsen, H., Refsgaard, J. C., Jensen, K. H., Rasmussen, M. R., Sass, B. H., Heemink, A., Hvid, S. K., Jørgensen, A. & Lassen, J., 2017, I: Vand & Jord. 24, 2, s. 62-64

**Rainfall measurement based on in-situ storm drainage flow sensors**

Ahm, M. & Rasmussen, M. R., 2017, I: Urban Water Journal. 14, 1, s. 23-33

**Rain gauge and weather radar representativeness of areal rainfall estimates over a small-scale urban catchment**

Ahm, M., Nielsen, J. E., Thorndahl, S. L. & Rasmussen, M. R., 2017, *2017 International Symposium Weather Radar and Hydrology*. Seoul: Korea Institute of Civil Engineering and Building Technology, Korea University, s. 96-97

**Scenario based risk assessment of the dispersion of E-coli from combined sewer overflow to a fresh-water lake**

Rasmussen, M. R., Thorndahl, S. L., Nielsen, J. E., Bastholm, S. & Starcke, S., 2017, *Conference Proceedings: 14th IWA/IAHR International Conference on Urban Drainage*. IWA/IAHR International Conference on Urban Drainage, s. 2366-2369 ICUD-0530

**Towards rainfall statistics from radar rainfall records for use in urban hydrology**

Thorndahl, S. L., Nielsen, J. E. & Rasmussen, M. R., 2017, *2017 International Symposium Weather Radar and Hydrology*. Seoul: Korea Institute of Civil Engineering and Building Technology, Korea University, s. 156 1 s.

### **Weather Radar Adjustment Using Runoff from Urban Surfaces**

Ahm, M. & Rasmussen, M. R., 2017, I: *Journal of Hydrologic Engineering*. 22, 5

### **Weather radar rainfall data in urban hydrology**

Thorndahl, S. L., Einfalt, T., Willems, P., Nielsen, J. E., ten Veldhuis, M.-C., Arnbjerg-Nielsen, K., Rasmussen, M. R. & Molnar, P., 2017, I: *Hydrology and Earth System Sciences*. 21, 3, s. 1359-1380 22 s.

### **Weather radar rainfall for design of urban storm water systems**

Thorndahl, S. L., Wright, D. B., Nielsen, J. E. & Rasmussen, M. R., 2017, *Conference Proceedings: 14th IWA/IAHR International Conference on Urban Drainage*. IWA/IAHR International Conference on Urban Drainage, s. 178-181 ICUD-0471

### **Estimation of combined sewer overflow discharge: a software sensor approach based on local water level measurements**

Ahm, M., Thorndahl, S. L., Nielsen, J. E. & Rasmussen, M. R., 2016, I: *Water Science and Technology*. 74, 11, s. 2683-2696 14 s.

### **Kathrinebjerg: Supplement til vindklima undersøgelse**

Rasmussen, M. R. & Nielsen, J. E., 2016, Aalborg: Aalborg Universitet, Institut for Byggeri og Anlæg. 21 s. (DCE Technical reports; Nr. 192).

### **Sammenligning af disdrometerobservationer og Spildevandskomiteens regnmålersystem**

Nielsen, J. E., Thorndahl, S. L. & Rasmussen, M. R., 2016, Aalborg: Aalborg Universitet, Institut for Byggeri og Anlæg. 23 s. (DCE Technical reports; Nr. 200).

### **Tema 1: BEWARE – Danmarks største regnmåler**

Nielsen, J. E., Ahm, M. & Rasmussen, M. R., 2016, *Drift af Spildevandskomiteens Regnmålersystem: Årsnotat 2015*. Thomsen, R. S. (red.). København: DMI, s. 36-41 6 s. (DMI Report; Nr. 03, Bind 16).

### **Analysis of one decade of heavy rainfall events from a radar rainfall dataset**

Thorndahl, S. L., Nielsen, J. E., Rasmussen, M. R. & Smith, J. A., 2015, *Rainfall in urban and natural systems: Proceedings of the 10th International Workshop on Precipitation in Urban Areas (UrbanRain15)*. Molnar, P. & Peleg, N. (red.). Zürich: ETH-Zürich, Institute of Environmental Engineering , s. 238-239 2 s. UR15-79

### **Assimilation of radar-based nowcast into HIRLAM NWP model**

Jensen, D. G., Petersen, C. & Rasmussen, M. R., 2015, I: *Meteorological Applications*. 22, 3, s. 485-494 10 s.

### **Can we predict the next urban flood? A case study of rain nowcasting and real-time flood simulation**

Thorndahl, S., Nielsen, J. E., Jensen, D. G., Thomas Lautrup Jepsen, M., Kjærgaard Laursen, M. & Rasmussen, M. R., 2015, *Proceedings of the 10th International Conference on Urban Drainage Modelling*. Maere, T., Tik, S., S. D. & Vanrolleghem, P. A. (red.). Québec: 10th International Urban Drainage Modelling Conference, s. 85-95 11 s.

### **GLUE Based Marine X-Band Weather Radar Data Calibration and Uncertainty Estimation**

Nielsen, J. E., Beven, K., Thorndahl, S. L. & Rasmussen, M. R., 2015, I: *Urban Water Journal*. 12, 4, s. 283-294 12 s.

### **Intercomparison of rainfall measurements from three different types of weather radars covering the same urban area**

Nielsen, J. E., Thorndahl, S. L. & Rasmussen, M. R., 2015, *Rainfall in urban and natural systems: Proceedings of the 10th International Workshop on Precipitation in Urban Areas (UrbanRain15)*. Molnar, P. & Peleg, N. (red.). Zürich: ETH-Zürich, Institute of Environmental Engineering , s. 143-144 2 s. UR15-47

### **On Hydraulic and Pollution Effects of Converting Combined Sewer Catchments to Separate Sewer Catchments**

Thorndahl, S. L., Schaarup-Jensen, K. & Rasmussen, M. R., 2015, I: *Urban Water Journal*. 12, 2, s. 120-130 11 s.

### **A novel probabilistic method for uncertainty estimation in urban runoff nowcasting**

Jensen, D. G., Thorndahl, S. L. & Rasmussen, M. R., apr. 2014, *International Symposium Weather Radar and Hydrology*. MIRA Digital Publishing, 2 s.

**Weather radar adjustment using runoff from urban surfaces**

Ahm, M. & Rasmussen, M. R., apr. 2014, *International Symposium Weather Radar and Hydrology*. MIRA Digital Publishing, 10 s.

**A new settling velocity model to describe secondary sedimentation**

Ramin, E., Wágner, D. S., Yde, L., Binning, P. J., Rasmussen, M. R., Mikkelsen, P. S. & Plósz, B. G., 2014, I: *Water Research*. 66, s. 447-458 12 s.

**A Numerical Method to Generate High Temporal Resolution Precipitation Time Series by Combining Weather Radar Measurements with a Nowcast Model**

Nielsen, J. E., Thorndahl, S. L. & Rasmussen, M. R., 2014, I: *Atmospheric Research*. 138, March, s. 1-12 12 s.

**Bias adjustment and advection interpolation of long-term high resolution radar rainfall series**

Thorndahl, S. L., Nielsen, J. E. & Rasmussen, M. R., 2014, I: *Journal of Hydrology*. 508, 16, s. 214–226 13 s.

**Improving Weather Radar Precipitation Estimates by Combining two Types of Radars**

Nielsen, J. E., Thorndahl, S. L. & Rasmussen, M. R., 2014, I: *Atmospheric Research*. 139, March, s. 36–45 10 s.

**Probabilistic online runoff forecasting for urban catchments using inputs from rain gauges as well as statically and dynamically adjusted weather radar**

Löwe, R., Thorndahl, S. L., Mikkelsen, P. S., Rasmussen, M. R. & Madsen, H., 2014, I: *Journal of Hydrology*. 512, May, s. 397-407 11 s.

**Tillægsrapport til analyse vindklima ved Havnehusene**

Rasmussen, M. R. & Nielsen, J. E., 2014, Aalborg: Department of Civil Engineering, Aalborg University. 23 s. (DCE Technical reports; Nr. 163).

**Calibrating LAWR Weather Radar using Laser Disdrometers**

Nielsen, J. E., Jensen, N. E. & Rasmussen, M. R., 2013, I: *Atmospheric Research*. 122, March, s. 165-173 9 s.

**Comparison of short-term rainfall forecasts for modelbased flow prediction in urban drainage systems**

Thorndahl, S. L., Poulsen, T. S., Bøvith, T., Borup, M., Ahm, M., Nielsen, J. E., Grum, M., Rasmussen, M. R., Gill, R. & Mikkelsen, P. S., 2013, I: *Water Science and Technology*. 68, 2, s. 472-478 7 s.

**Development of Method for X-band Weather Radar Calibration**

Nielsen, J. E., Thorndahl, S. L. & Rasmussen, M. R., 2013, I: *Journal of Hydroinformatics*. 15, 4, s. 1326-1339 14 s.

**Estimating Subcatchment Runoff Coefficients using Weather Radar and a Downstream Runoff Sensor**

Ahm, M., Thorndahl, S. L., Rasmussen, M. R. & Bassø, L., 2013, I: *Water Science and Technology*. 68, 6, s. 1293-1299 7 s.

**Following a drop of water from the cloud, throughout the sewer system, into the receiving water: Model predictive control of integrated sewer-wastewater treatment systems**

Mikkelsen, P. S., Vezzano, L., Sharma, A. K., Plósz, B. G., Rasmussen, M. R., Thorndahl, S. L., Gil, R., Löwe, R., Madsen, H., Grum, M., Gadegaard, T. N., Rungø, M., Lynggaard-Jensen, A., Thirsing, C., Bassø, L., Thyme, J., Petersen, H. & Thornberg, D. E., 2013, *Proceedings of 11th IWA conference on instrumentation control and automation*. Conference on Instrumentation Control and Automation

**Modelamiento de dos Fases (Agua-Aire) de un Bioreactor Con Membrana (MBR) Sumergida Mediante la Dinámica de Fluidos Computacional (CFD)**

Ratkovich, N. R., Bentzen, T. R. & Rasmussen, M. R., 2013, *VIII Congreso Ibero-Americano en Ciencias y Tecnología de Membranas*. Universidad Católica del Maule, 2 s.

**Review and Comparison of Radar Rainfall Bias Adjustment Methods: applying a 10-year dataset from Denmark**

Thorndahl, S. L., Nielsen, J. E. & Rasmussen, M. R., 2013, *11th International Precipitation Conference 2013: Royal Netherlands Meteorological Institute (KNMI) and Hydrology and Quantitative Water Management Group, Wageningen University*. Leijnse, H. & Uijlenhoet, R. (red.). Wageningen, Netherland: Wageningen University, s. 217 1 s.

**Review and Comparison of Radar Rainfall Bias Adjustment Methods: applying a 10-year dataset from Denmark**

Thorndahl, S. L., Nielsen, J. E. & Rasmussen, M. R., 2013. 1 s.

**Short-Term Forecasting of Urban Storm Water Runoff in Real-Time using Extrapolated Radar Rainfall Data**

Thorndahl, S. L. & Rasmussen, M. R., 2013, I: *Journal of Hydroinformatics*. 15, 3, s. 897–912 16 s.

**State-space adjustment of radar rainfall and skill score evaluation of stochastic volume forecasts in urban drainage systems**

Löwe, R., Mikkelsen, P. S., Rasmussen, M. R. & Madsen, H., 2013, I: *Water Science and Technology*. 68, 3, s. 584-590 7 s.

**State-space adjustment of radar rainfall and stochastic flow forecasting for use in real-time control of urban drainage systems**

Löwe, R., Mikkelsen, P. S., Rasmussen, M. R. & Madsen, H., 2013, *Urban Drainage Modelling: Proceedings of the 9th International Conference on Urban Drainage Modelling*. Prodanović, D. & Plavšić, J. (red.). Faculty of Civil Engineering, University of Belgrade, 9 s.

**Analyse vindklima ved Havnehusene**

Rasmussen, M. R. & Ratkovich, N. R., 2012, Aalborg: Department of Civil Engineering, Aalborg University. 24 s. (DCE Technical reports; Nr. 158).

**Analytical and Numerical Modelling of Newtonian and non-Newtonian Liquid in a Rotational Cross-flow MBR**

Bentzen, T. R., Ratkovich, N. R., Madsen, S., Jensen, J. C., Bak, S. N. & Rasmussen, M. R., 2012, I: *Water Science and Technology*. 66, 11, s. 2318–2327 10 s.

**Aspects of Applying Weather Radar-Based Nowcasts of Rainfall for Highways in Denmark**

Rasmussen, M. R., Thorndahl, S. L. & Quist, M., 2012, *Weather Radar and Hydrology*. Moore, R. J., Cole, S. J. & Illingworth, A. J. (red.). Bind 351. s. 330-335 6 s. (I A H S Proceedings and Reports).

**Comparison Of Short Term Rainfall Forecasts For Model Based Flow Prediction In Urban Drainage Systems**

Thorndahl, S. L., Poulsen, T. S., Bøvith, T., Borup, M., Ahm, M., Nielsen, J. E., Grum, M., Rasmussen, M. R., Gill, R. & Mikkelsen, P. S., 2012, *Urban Drainage Modelling: Proceedings of the Ninth International Conference on Urban Drainage Modelling*. Prodanović, D. & Plavšić, J. (red.). Faculty of Civil Engineering, University of Belgrade, 12 s.

**Desarrollo de un Modelo Reológico de Lodos Activados Para Bioreactores Con Membrana (MBR)**

Ratkovich, N. R., Bentzen, T. R., Moreau, A. A. & Rasmussen, M. R., 2012, *VIII Congreso Ibero-Americano en Ciencias y Tecnología de Membranas*. 2 s.

**Empirical Correlations and CFD Simulations of Vertical Two-Phase Gas-Liquid (Newtonian and Non-Newtonian) Flow Compared Against Experimental Data of Void Fraction and Pressure Drop**

Ratkovich, N. R., Bentzen, T. R., Majumder, S. K. & Rasmussen, M. R., 2012, *3rd EBECCEM - Brazilian Meeting on Multiphase Flow and Phase Change Heat Transfer*. 22 s.

**Energy Consumption in Terms of Shear Stress for Two Types of Membrane Bioreactors used for Municipal Wastewater Treatment Processes**

Ratkovich, N. R., Bentzen, T. R. & Rasmussen, M. R., 2012, I: *Archives of Thermodynamics*. 33, 2, s. 85-106 20 s.

**Estimating Runoff Coefficients Using Weather Radars**

Ahm, M., Thorndahl, S. L., Rasmussen, M. R. & Bassø, L., 2012, *Urban Drainage Modelling: Proceedings of the Ninth International Conference on Urban Drainage Modelling*. Prodanović, D. & Plavšić, J. (red.). Faculty of Civil Engineering,

University of Belgrade, 13 s.

#### **Evaluering af ny processeringsmetode til LAWR**

Nielsen, J. E., Thorndahl, S. L. & Rasmussen, M. R., 2012, Aalborg: Department of Civil Engineering, Aalborg University. 40 s. (DCE Technical reports; Nr. 149).

#### **Experimental and CFD Simulations of Vertical Two-Phase Slug Flow for Gas-Newtonian and Non-Newtonian Liquids**

Ratkovich, N. R., Bentzen, T. R., Majumder, S. & Rasmussen, M. R., 2012. 2 s.

#### **Experimental and CFD Simulation Studies of Wall Shear Stress for Different Impeller Configurations and MBR Activated Sludge**

Ratkovich, N. R., Chan, C. C. V., Bentzen, T. R. & Rasmussen, M. R., 2012, I: *Water Science and Technology*. 65, 11, s. 2061–2070 10 s.

#### **Marine X-band Weather Radar Data Calibration**

Thorndahl, S. L. & Rasmussen, M. R., 2012, I: *Atmospheric Research*. 103, s. 33–44 12 s.

#### **On Comparing NWP and Radar Nowcast Models for Forecasting of Urban Runoff**

Thorndahl, S. L., Bøvith, T., Rasmussen, M. R. & Gill, R. S., 2012, *Weather Radar and Hydrology*. J. Moore, R., J. Cole, S. & J. Illingworth, A. (red.). IAHS Press, Bind 351. s. 620-625 6 s. (I A H S Proceedings and Reports).

#### **Using Weather Radar to Optimise Operation of an Urban Drainage System with Distributed Rainwater Storage**

Rasmussen, M. R., Thorndahl, S. L., Bentzen, T. R., Nielsen, J. E. & Selc, T., 2012, *Urban Drainage Modelling: Proceedings of the Ninth International Conference on Urban Drainage Modelling*. Prodanović, D. & Plavšić, J. (red.). Faculty of Civil Engineering, University of Belgrade, 11 s.

#### **What is a Proper Resolution of Weather Radar Precipitation Estimates for Urban Drainage Modelling?**

Nielsen, J. E., Rasmussen, M. R. & Thorndahl, S. L., 2012, *International Symposium on Weather Radar and Hydrology*. Exeter: IAHS Press, Bind 351. s. 601-606 6 s. (IAHS Publications Series (Red Books)).

#### **Aspects of Applying Weather Radar Based Nowcast for Highways in Denmark**

Rasmussen, M. R., Quist, M. & Thorndahl, S. L., 2011. 1 s.

#### **Computational Fluid Dynamics of Two MBR Configurations**

Bentzen, T. R., Ratkovich, N. R. & Rasmussen, M. R., 2011, *AMTA/SEDA 2011 Joint Conference & Exposition "Membranes are the Solution": Book of Abstracts*. 1 s.

#### **Computational Fluid Dynamics of Two MBR Configurations**

Bentzen, T. R., Ratkovich, N. R. & Rasmussen, M. R., 2011, *AMTA/SEDA 2011 Joint Conference & Exposition "Membranes are the Solution": Book of Proceedings*. 10 s.

#### **Energy Consumption in Terms of Shear Stress for Two Types of Membrane Bioreactors Used for Municipal Wastewater Treatment Processes**

Ratkovich, N. R., Bentzen, T. R., Bérube, P. R., Heinen, N. & Rasmussen, M. R., 2011, *HEAT 2011: The Sixth International Conference on Transport Phenomena in Multiphase Systems : Conference Proceedings*. Polish Society of Mechanical Engineers and Technicians, s. 155-162 8 s.

#### **Energy Consumption Related to Shear Stress For Membrane Bioreactors Used For Wastewater Treatment**

Ratkovic, N. R., Bentzen, T. R., Bérubéb, P. R. & Rasmussen, M. R., 2011. 1 s.

#### **Energy Consumption Related to Shear Stress for Membrane Bioreactors Used for Wastewater Treatment**

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### **Improving Settling Dynamics of Activated Sludge by Adding Fine Talc Powder**

Rasmussen, M. R., Larsen, T. & Clauss, F., 1996, I: *Water Science and Technology*. 34, 5/6, s. 11-18 8 s.

### **Runoff Modelling in Urban Storm Drainage by Neural Networks**

Rasmussen, M. R., Brorsen, M. & Schaarup-Jensen, K., 1995, *NOVATECH 95: 2nd International Conference on Innovative Technologies in Urban Storm Drainage*. GRAIE, s. 395-402 8 s.

## **Aktiviteter**

### **Institut for Byggeri, By og Miljø (Organisation)**

Rasmussen, M. R. (Forperson)

1 jan. 2020

### **Dryp A/S (Ekstern organisation)**

Rasmussen, M. R. (Forperson)

2020

### **12th International Conference on Urban Drainage**

Rasmussen, M. R. (Oplægsholder)

18 apr. 2011 → 21 apr. 2011

### **International Symposium on Weather Radar and Hydrology**

Rasmussen, M. R. (Oplægsholder)

18 apr. 2011 → 21 apr. 2011

### **The International Congress on Advances in Civil Engineering**

Rasmussen, M. R. (Oplægsholder)

15 sep. 2008 → 17 sep. 2008

### **Forskningsdag 2008**

Rasmussen, M. R. (Oplægsholder)

8 jan. 2008

### **Forskningsdag : Institut for Byggeri og Anlæg**

Rasmussen, M. R. (Oplægsholder)

9 jan. 2007

### **Vandløbsadministration : Undersøgelser i Gravlev Ådal - Lindenberg Å**

Rasmussen, M. R. (Oplægsholder)

4 apr. 2006 → 5 apr. 2006

**Nyhedsbrev : Aalborg Vejradar Nyhedsbrev (Tidsskrift)**

Rasmussen, M. R. (Redaktør)

8 sep. 2005

**Det Ingeniør- og Naturvidenskabelige Fakultet (Organisation)**

Rasmussen, M. R. (Forperson)

1 jan. 2005

## **Presse/medie**

**70 procent mere regn i Nordjylland end normalt**

Rasmussen, M. R.

19/01/2007

1 element af Mediedækning

**Badevand i centrum bedst tjekket**

Rasmussen, M. R.

26/08/2011

1 element af Mediedækning

**Bedre målinger af kloakoverløb på vej**

Rasmussen, M. R.

29/08/2019

2 elementer af Mediedækning

**Bedre syn på stranden**

Rasmussen, M. R. & Nielsen, J. E.

18/07/2009

1 element af Mediedækning

**Danskudviklet radar skal forhindre drukneulykker på stranden**

Rasmussen, M. R.

21/07/2009

3 elementer af Mediedækning

**DANVAs bestyrelse har godkendt uddeling af VUDP-midler for 2017**

Rasmussen, M. R.

06/10/2017

1 element af Mediedækning

**Debat: Vi kan hænge fremtidens skybrud til tørre**

Rasmussen, M. R.

17/03/2023

1 element af Mediedækning

**DF i kamp mod stigende grundvand**

Rasmussen, M. R.

23/07/2007

1 element af Mediedækning

**En trend til gavn for miljø og økonomi**

Rasmussen, M. R.

23/09/2008

1 element af Mediedækning



**Fakta om overløb**

Rasmussen, M. R.

04/02/2021

1 element af Mediedækning

**Farvekoder på rør kan forebygge ekskrementer i badevandet**

Rasmussen, M. R.

23/03/2018

1 element af Mediedækning

**Farvekoder på rør kan forebygge ekskrementer i badevandet**

Rasmussen, M. R.

05/04/2018

1 element af Mediedækning

**Flere steder i Nordjylland kæmper med vådt vejr**

Rasmussen, M. R.

28/02/2020

1 element af Mediedækning

**Forsker: Landmænd skal begynde at se sig om efter nye afgrøder**

Rasmussen, M. R.

09/08/2017

2 elementer af Mediedækning

**Fra drømmehus til vådt mareridt: - Jeg frygter for mine børns ve og vel**

Rasmussen, M. R.

01/07/2021 → 03/07/2021

3 elementer af Mediedækning

**Hollandsk model mod oversvømmede kældre**

Rasmussen, M. R.

23/07/2007

1 element af Mediedækning

**Husk disse regler, når du bygger nyt**

Rasmussen, M. R.

09/06/2020 → 12/06/2020

2 elementer af Mediedækning

**Hvidovre vil advare borgerne om oversvømmelse med SMS**

Rasmussen, M. R.

06/12/2007

1 element af Mediedækning

**Højt Scala-byggeri går mod vinden**

Rasmussen, M. R.

18/02/2013

1 element af Mediedækning

**Intelligent teknologi forbedrer vandmiljøet**

Rasmussen, M. R.

14/11/2018

1 element af Mediedækning

**Intelligent vejr-varslingssystem på vej**

Rasmussen, M. R.

22/08/2008

1 element af Mediedækning

**Kan koste dig dyrt: Husk disse regler når du bygger nyt**

Rasmussen, M. R.

12/05/2020 → 17/05/2020

6 elementer af Mediedækning

**Kan koste dyrt: Har du styr på disse boligregler?**

Rasmussen, M. R.

18/05/2020 → 20/05/2020

4 elementer af Mediedækning

**Klimabassin skal få tjek på regnvandet**

Rasmussen, M. R.

22/05/2019

3 elementer af Mediedækning

**Kloakker vil bryde sammen**

Rasmussen, M. R.

30/12/2014

3 elementer af Mediedækning

**Kommuner skal tage ansvar for grundvandet**

Rasmussen, M. R.

23/07/2007

1 element af Mediedækning

**Miljøudvalgsformand: "Vi bader jo i lort"**

Rasmussen, M. R.

29/08/2019

1 element af Mediedækning

**Modeller for klimatilpasning passer**

Rasmussen, M. R.

17/09/2019

1 element af Mediedækning

**Monsterregnskyl ødelægger uåbnet kæmpevej i Vejle**

Rasmussen, M. R.

28/09/2023 → 29/09/2023

5 elementer af Mediedækning

**Naviger uden om boliger med oversvømmelsesrisiko**

Rasmussen, M. R.

25/03/2020

4 elementer af Mediedækning

**Naviger uden om boliger med oversvømmelsesrisiko**

Rasmussen, M. R.

02/04/2020 → 06/04/2020

2 elementer af Mediedækning

**Naviger uden om boliger med oversvømmelsesrisiko**

Rasmussen, M. R.

24/04/2020

1 element af Mediedækning

**"Nu går den ikke længere": Helles vej er oversvømmet på tredje måned**

Rasmussen, M. R.

10/05/2024

10 elementer af Mediedækning

**Nye investeringer og fuld udnyttelse af eksisterende systemer**

Rasmussen, M. R.

14/10/2010

1 element af Mediedækning

**Ny måde at bruge vejradardata på**

Rasmussen, M. R.

12/08/2021

1 element af Mediedækning

**Ny radar i Aalborg mod oversvømmelser**

Rasmussen, M. R.

23/03/2006

1 element af Mediedækning

**Ny rapport: Billigere end antaget at måle og bremse kloakoverløb**

Rasmussen, M. R.

07/09/2020 → 10/09/2020

5 elementer af Mediedækning

**Opfinder fordobler salget**

Rasmussen, M. R.

05/01/2021

5 elementer af Mediedækning

**Opfinder: Om to år har vi 10-doblet salget**

Rasmussen, M. R.

28/12/2019

2 elementer af Mediedækning

**Overløb er en sikkerhedsventil**

Rasmussen, M. R.

05/11/2020 → 07/11/2020

4 elementer af Mediedækning

**Pluk**

Rasmussen, M. R.

09/05/2022

1 element af Mediedækning

**Professor: Boliger ved vandet er de mest attraktive - men det koster**

Rasmussen, M. R.

03/03/2022 → 07/03/2022

4 elementer af Mediedækning

**Radarm kan redde badegæsters liv**

Rasmussen, M. R.

31/07/2008

1 element af Mediedækning

**Regnradar skal forudsige skybrud**

Rasmussen, M. R.

12/09/2014

4 elementer af Mediedækning

**Sensorer forbedrer vandmiljø**

Rasmussen, M. R.

02/05/2018

1 element af Mediedækning

**Store kræfter på spil**

Rasmussen, M. R.

11/10/2009

1 element af Mediedækning

**Stormflod på vej igen**

Rasmussen, M. R.

08/01/2019

1 element af Mediedækning

**Succesfuld jagt på kloakfejl**

Rasmussen, M. R.

16/04/2017

3 elementer af Mediedækning

**Tordenjægerne og vejrradaren**

Rasmussen, M. R.

23/03/2006

1 Mediebidrag

**Tusinder får miljøsmæk**

Rasmussen, M. R.

13/10/2014

1 element af Mediedækning

**Urbane vinde plager bygning**

Rasmussen, M. R.

20/05/2010

1 element af Mediedækning

**Vandkoncern bag nyt skybrudskort**

Rasmussen, M. R.

14/12/2016

2 elementer af Mediedækning

**Vejrradar giver viden om regn**

Rasmussen, M. R.

29/03/2006

1 element af Mediedækning

**Vejrradar til Hvidovre**

Rasmussen, M. R.

07/12/2007

1 element af Mediedækning

**Villum Fonden støtter 8 tværfaglige projekter i nyt program**

Hose, K., Albertsen, M., Wang, H., Yang, B., Larsen, K. G. &amp; Rasmussen, M. R.

29/03/2020

1 element af Mediedækning

**Villum Fonden støtter otte projekter med i alt 52,5 mio. kr.**

Larsen, K. G., Rasmussen, M. R., Hose, K., Albertsen, M., Wang, H. &amp; Yang, B.

07/05/2020

1 element af Mediedækning

**Vi må leve med oversvømmelser**

Rasmussen, M. R.

29/01/2015

1 element af Mediedækning

**Vi må vænne os til regnen**

Rasmussen, M. R.

19/01/2007

1 element af Mediedækning

**Vinden smadrer vinduer**

Rasmussen, M. R.

20/05/2010

5 elementer af Mediedækning

**Vi skal blive bedre til at håndtere store regnmængder**

Rasmussen, M. R.

06/12/2013

1 element af Mediedækning

**Vi skal regne om igen i et vigtigt klimaregnestykke**

Rasmussen, M. R.

05/09/2019

2 elementer af Mediedækning

**VUDP: 10 millioner til udviklingsprojekter**

Rasmussen, M. R.

14/12/2023

1 element af Mediedækning

**Øget sommerhusaktivitet kan skade miljøet**

Rasmussen, M. R.

24/12/2015

1 element af Mediedækning

**Aalborg-forsker: Afgørende at prioritere kloaksystemsindsats**

Rasmussen, M. R.

01/12/2020

1 element af Mediedækning

**Aalborgs nye havnebad åbner med forsinkelse**

Rasmussen, M. R.

01/07/2011

2 elementer af Mediedækning

**Aalborg vil være på forkant når det gælder regnvand**

Rasmussen, M. R.

21/05/2019

1 element af Mediedækning

**AAU og Aalborg Kommune skal studere vejret**

Rasmussen, M. R.

23/03/2006

1 element af Mediedækning

**Projekter****CFD optimering af hydrodynamisk funktion i et ATS renseanlæg med**

Rasmussen, M. R. (Projektdeltager) &amp; Laursen, J. (Projektdeltager)

01/09/2004 → ...

**CLAIRE : ControLing wAter In an uRban Environment**

Larsen, K. G. (PI (principal investigator)), Rasmussen, M. R. (PI (principal investigator)), Nielsen, T. D. (Col (co-investigator)), Srba, J. (Col (co-investigator)) &amp; Nielsen, J. E. (Col (co-investigator))

Villum Fonden

**Ekspérimentel og numerisk undersøgelse af energiforhold i Søholt Renseanlæg / Experimental and Numerical Evaluation of the Energy Distribution in Søholt Wastewater Treatment Plant**

Rasmussen, M. R. (Projektdeltager)

31/12/2003 → 31/12/2003

**Hydrodynamisk analyse af opdræts tanke til pighvar / Hydrodynamic Analysis of Turbot Rearing Tanks**

Rasmussen, M. R. (Projektdeltager)

19/05/2010 → ...

**Ittforbrug fra oversvømmede enge i Gravlev Ådal**

Frier, J.-O. (Projektdeltager), Rasmussen, M. R. (Projektdeltager) &amp; Iversen, N. (Projektdeltager)

LIFE

19/05/2010 → ...

**Measurement and Modelling of 3-Dimensional Multi Phase Flow in Wastewater Treatment Plant Process- and Sedimentation Tanks.**

Rasmussen, M. R. (Projektdeltager) &amp; Laursen, J. (Projektdeltager)

19/05/2010 → ...

**MEMBIO - Dansk Membran Bioreaktor Teknologi**

Bentzen, T. R. (Projektdeltager) &amp; Rasmussen, M. R. (Projektdeltager)

Danish Ministry of Science, Technology and Innovation

19/05/2010 → ...

**Modellering af frigivelse af insulin og proteiner fra hydrogeler / Numerical Modelling of Combined Hydrodynamic and Biological Processes in Wastewater Treatment Plants**

Rasmussen, M. R. (Projektdeltager)

19/05/2010 → ...

**Modellering og måling af hydrodynamik og processer i renselanlæg / Modelling and Measurements of Hydrodynamics and Processes in Sewer Treatment Plants**

Larsen, T. (Projektdeltager) & Rasmussen, M. R. (Projektdeltager)  
31/12/2003 → 31/12/2003

**Numerisk modellering af efterklaringstanke i renselanlæg / Numerical Modelling of Secondary Clarifiers in Sewage Treatment Plants**

Rasmussen, M. R. (Projektdeltager) & Larsen, T. (Projektdeltager)  
19/05/2010 → ...

**Optimering af energiforhold i dambrug med runde produktionstanke / Optimization of Energy Conditions in Aquaculture Facilities with Round Rearing Tanks**

Rasmussen, M. R. (Projektdeltager)  
31/12/2003 → 31/12/2003

**Optimering af slutrensning i akvakultur**

Riis-Vestergaard, J. (Projektdeltager), Skjølstrup, J. (Projektdeltager), Frier, J.-O. (Projektdeltager), Grønborg, O. (Projektdeltager), Rasmussen, M. R. (Projektdeltager) & Laursen, J. (Projektdeltager)  
01/12/2001 → 01/12/2004

**Optimering af tømmeproces i sedimentationskegler i førkvsandsdambrug.**

Laursen, J. (Projektdeltager) & Rasmussen, M. R. (Projektdeltager)  
19/05/2010 → ...

**Optimising Process-based Hydrological Models using Machine Learning Focusing on Shallow Groundwater Predictions**

Forchhammer, R. C. (PI (principal investigator)), Rasmussen, M. R. (Supervisor) & Andersen, T. R. (Supervisor)  
01/05/2023 → 01/03/2027

**Overløb fra fælleskloak - Hvordan måles det - og Hvorfor?**

Bassø, L. (Projektdeltager), Rasmussen, M. R. (Projektdeltager), Nielsen, J. E. (Projektdeltager), Thorndahl, S. L. (Projektdeltager), Mikkelsen, P. S. (Projektdeltager), Sharma, A. K. (Projektdeltager), Rungø, M. (Projektdeltager), Grum, M. (Projektdeltager), Gadegaard, T. (Projektdeltager) & Ahm, M. K. S. (Projektdeltager)  
01/01/2013 → 01/12/2014

**PhD Project: Accumulation Of Pollutants In Highway Detention Ponds**

Bentzen, T. R. (Projektdeltager), Larsen, T. (Projektleder) & Rasmussen, M. R. (Projektleder)  
<ingen navn>  
21/08/2005 → 30/10/2008

**PhD Project: Sammenkobling af C-bånd og X-bånd vejrradarer for mere præcise nedbørsmålinger over urbane områder**

Nielsen, J. E. (Projektdeltager) & Rasmussen, M. R. (Andet)  
01/07/2009 → 29/06/2012

**PhD Project: Sealing Material of Groundwater Wells**

Köser, C. (Projektdeltager), Rasmussen, M. R. (Projektleder), Andersen, L. V. (Andet) & Thøgersen, L. (Projektleder)  
VIA University College  
01/06/2008 → 18/11/2011

**PhD Project: Using in-sewer sensors for accurate weather radar adjustment**

Larsen, J. B. (Projektdeltager), Rasmussen, M. R. (Andet), Grum, M. (Andet) & Gill, R. (Andet)  
01/07/2009 → 29/06/2012

**PhD Project: WWTP Process Tank Modelling: The Integration of Advanced Hydrodynamic and Microbiological Models**

Laursen, J. (Projektdeltager) & Rasmussen, M. R. (Projektleder)  
<ingen navn>

01/09/2002 → 14/09/2007

**RADIATE: Radarprognoser til vandsektoren**

Nielsen, J. M. (PI (principal investigator)), Nielsen, J. E. (PI (principal investigator)) & Rasmussen, M. R. (PI (principal investigator))

01/01/2021 → 01/11/2023

**Sedimenttransport i afløbssystemer**

Rasmussen, M. R. (Projektdeltager), Schaarup-Jensen, K. (Projektdeltager) & Larsen, T. (Projektdeltager)

19/05/2010 → ...

**Stoftilbageholdelse i regnvandsbassiner / Solids Removal in Detention Basins**

Rasmussen, M. R. (Projektdeltager) & Larsen, T. (Projektdeltager)

19/05/2010 → ...

**Storm- and Wastewater Informatics**

Henze, M. (Bevillingshaver), Mikkelsen, P. S. (Projektdeltager), Adeler, O. F. (Projektdeltager), Mark, O. (Projektdeltager), Grum, M. (Projektdeltager), Neergaard Jacobsen, B. (Projektdeltager), Johansen, N. B. (Projektdeltager), Rasmussen, M. R. (Projektdeltager) & Ahm, M. K. S. (Projektdeltager)

Det Strategiske Forskningsråds programkomite for Energi og Miljø

01/04/2008 → 31/03/2011

**The Sewer Research and Monitoring Station in Frejlev**

Thorndahl, S. L. (Projektdeltager) & Rasmussen, M. R. (Projektdeltager)

19/05/2010 → ...

**Tyngdeflyderen / Tyngdeflyderen**

Rasmussen, M. R. (Projektdeltager) & Frigaard, P. (Projektdeltager)

31/12/2003 → 31/12/2003

**Weather Radar Nowcasting for Urban Drainage Applications**

Nielsen, J. M. (PI (principal investigator)), Nielsen, J. E. (PI (principal investigator)) & Rasmussen, M. R. (PI (principal investigator))

01/12/2021 → 01/12/2024