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## Research profile

Education 1997 Ph.D. Aalborg University, Department of Civil Engineering, Hydraulic and Coastal Engineering  
1992Master 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

### 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

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

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### 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, s. 784-790 7 s. (IEEE Conference on Control Technology and Applications (CCTA) - Proceedings).

### Monitering 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.

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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**

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**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**

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

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

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**Sikkert søbad: Overvågning,rensning og varseling af regnvandsbetigede overløb**

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**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

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

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**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**

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

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**Energy Efficient Aeration in a Single Low Pressure Hollow Sheet Membrane Filtration Module**  
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## Aktiviteter

**Institut for Byggeri, By og Miljø (Organisation)**  
Michael R. Rasmussen (Forperson)  
1 jan. 2020

**Dryp A/S (Ekstern organisation)**  
Michael R. Rasmussen (Forperson)  
2020

**12th International Conference on Urban Drainage**  
Michael R. Rasmussen (Oplægsholder)  
18 apr. 2011 → 21 apr. 2011

**International Symposium on Weather Radar and Hydrology**  
Michael R. Rasmussen (Oplægsholder)  
18 apr. 2011 → 21 apr. 2011

**The International Congress on Advances in Civil Engineering**  
Michael R. Rasmussen (Oplægsholder)  
15 sep. 2008 → 17 sep. 2008

**Forskningens Dag 2008**  
Michael R. Rasmussen (Oplægsholder)  
8 jan. 2008

**Forskningens Dag : Institut for Byggeri og Anlæg**  
Michael R. Rasmussen (Oplægsholder)  
9 jan. 2007

**Vandløbsadministration : Undersøgelser i Gravlev Ådal - Lindenborg Å**  
Michael R. Rasmussen (Oplægsholder)  
4 apr. 2006 → 5 apr. 2006

**Nyhedsbrev : Aalborg Vejradar Nyhedsbrev (Tidsskrift)**  
Michael R. Rasmussen (Redaktør)  
8 sep. 2005

**Det Ingeniør- og Naturvidenskabelige Fakultet (Organisation)**  
Michael R. Rasmussen (Forperson)  
1 jan. 2005

## **Presse/medie**

**70 procent mere regn i Nordjylland end normalt**  
Michael R. Rasmussen  
19/01/2007  
1 element af Mediedækning

**Badevand i centrum bedst tjekket**  
Michael R. Rasmussen  
26/08/2011  
1 element af Mediedækning

**Bedre målinger af kloakoverløb på vej**  
Michael R. Rasmussen  
29/08/2019  
2 elementer af Mediedækning

**Bedre syn på stranden**  
Michael R. Rasmussen & Jesper Ellerbæk Nielsen

18/07/2009

1 element af Mediedækning

**Danskudviklet radar skal forhindre drukneulykker på stranden**

Michael R. Rasmussen

21/07/2009

3 elementer af Mediedækning

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

Michael Robdrup Rasmussen

06/10/2017

1 element af Mediedækning

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

Michael R. Rasmussen

17/03/2023

1 element af Mediedækning

**DF i kamp mod stigende grundvand**

Michael R. Rasmussen

23/07/2007

1 element af Mediedækning

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

Michael R. Rasmussen

23/09/2008

1 element af Mediedækning

**Fakta om overløb**

Michael R. Rasmussen

04/02/2021

1 element af Mediedækning

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

Michael Robdrup Rasmussen

23/03/2018

1 element af Mediedækning

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

Michael Robdrup Rasmussen

05/04/2018

1 element af Mediedækning

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

Michael R. Rasmussen

28/02/2020

1 element af Mediedækning

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

Michael Robdrup Rasmussen

09/08/2017

2 elementer af Mediedækning

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

Michael R. Rasmussen

01/07/2021 → 03/07/2021

3 elementer af Mediedækning

**Hollandsk model mod oversvømmede kældre**

Michael R. Rasmussen

23/07/2007

1 element af Mediedækning

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

Michael R. Rasmussen

09/06/2020 → 12/06/2020

2 elementer af Mediedækning

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

Michael R. Rasmussen

06/12/2007

1 element af Mediedækning

**Højt Scala-byggeri går mod vinden**

Michael R. Rasmussen

18/02/2013

1 element af Mediedækning

**Intelligent teknologi forbedrer vandmiljøet**

Michael Robdrup Rasmussen

14/11/2018

1 element af Mediedækning

**Intelligent vejrvarslingssystem på vej**

Michael R. Rasmussen

22/08/2008

1 element af Mediedækning

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

Michael R. Rasmussen

12/05/2020 → 17/05/2020

6 elementer af Mediedækning

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

Michael R. Rasmussen

18/05/2020 → 20/05/2020

4 elementer af Mediedækning

**Klimabassin skal få tjek på regnvandet**

Michael R. Rasmussen

22/05/2019

3 elementer af Mediedækning

**Kloakker vil bryde sammen**

Michael R. Rasmussen

30/12/2014

3 elementer af Mediedækning

**Kommuner skal tage ansvar for grundvandet**

Michael R. Rasmussen

23/07/2007

1 element af Mediedækning

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

Michael R. Rasmussen

29/08/2019

1 element af Mediedækning

**Modeller for klimatilpasning passer**

Michael R. Rasmussen

17/09/2019

1 element af Mediedækning

**Monsterregnskyl ødelægger uåbnet kæmpevej i Vejle**

Michael R. Rasmussen

28/09/2023 → 29/09/2023

5 elementer af Mediedækning

**Naviger uden om boliger med oversvømmelsesrisiko**

Michael R. Rasmussen

25/03/2020

4 elementer af Mediedækning

**Naviger uden om boliger med oversvømmelsesrisiko**

Michael R. Rasmussen

02/04/2020 → 06/04/2020

2 elementer af Mediedækning

**Naviger uden om boliger med oversvømmelsesrisiko**

Michael R. Rasmussen

24/04/2020

1 element af Mediedækning

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

Michael R. Rasmussen

14/10/2010

1 element af Mediedækning

**Ny måde at bruge vejradardata på**

Michael R. Rasmussen

12/08/2021

1 element af Mediedækning

**Ny radar i Aalborg mod oversvømmelser**

Michael R. Rasmussen

23/03/2006

1 element af Mediedækning

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

Michael R. Rasmussen

07/09/2020 → 10/09/2020

5 elementer af Mediedækning

**Opfinder fordobler salget**

Michael R. Rasmussen

05/01/2021

5 elementer af Mediedækning

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

Michael R. Rasmussen

28/12/2019

2 elementer af Mediedækning

**Overløb er en sikkerhedsventil**

Michael R. Rasmussen

05/11/2020 → 07/11/2020

4 elementer af Mediedækning

**Pluk**

Michael R. Rasmussen

09/05/2022

1 element af Mediedækning

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

Michael R. Rasmussen

03/03/2022 → 07/03/2022

4 elementer af Mediedækning

**Radar kan redde badegæsters liv**

Michael R. Rasmussen

31/07/2008

1 element af Mediedækning

**Regnradar skal forudsige skybrud**

Michael R. Rasmussen

12/09/2014

4 elementer af Mediedækning

**Sensorer forbedrer vandmiljø**

Michael Robdrup Rasmussen

02/05/2018

1 element af Mediedækning

**Store kræfter på spil**

Michael R. Rasmussen

11/10/2009

1 element af Mediedækning

**Stormflod på vej igen**

Michael Robdrup Rasmussen

08/01/2019

1 element af Mediedækning

**Succesfuld jagt på kloakfejl**

Michael Robdrup Rasmussen

16/04/2017

3 elementer af Mediedækning

**Tordenjægerne og vejradaren**

Michael R. Rasmussen

23/03/2006

1 Mediebidrag

**Tusinder får miljøsmæk**

Michael R. Rasmussen

13/10/2014

1 element af Mediedækning

**Urbane vinde plager bygning**

Michael R. Rasmussen

20/05/2010

1 element af Mediedækning

**Vandkoncern bag nyt skybrudskort**

Michael R. Rasmussen

14/12/2016

2 elementer af Mediedækning

**Vejrradar giver viden om regn**

Michael R. Rasmussen

29/03/2006

1 element af Mediedækning

**Vejrradar til Hvidovre**

Michael R. Rasmussen

07/12/2007

1 element af Mediedækning

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

Katja Hose, Mads Albertsen, Huai Wang, Bin Yang, Kim Guldstrand Larsen & Michael R. Rasmussen

29/03/2020

1 element af Mediedækning

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

Kim Guldstrand Larsen, Michael R. Rasmussen, Katja Hose, Mads Albertsen, Huai Wang & Bin Yang

07/05/2020

1 element af Mediedækning

**Vi må leve med oversvømmelser**

Michael R. Rasmussen

29/01/2015

1 element af Mediedækning

**Vi må vænne os til regnen**

Michael R. Rasmussen

19/01/2007

1 element af Mediedækning

**Vinden smadrer vinduer**

Michael R. Rasmussen

20/05/2010

5 elementer af Mediedækning

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

Michael R. Rasmussen

06/12/2013

1 element af Mediedækning

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

Michael R. Rasmussen

05/09/2019

2 elementer af Mediedækning

**VUDP: 10 millioner til udviklingsprojekter**

Michael R. Rasmussen

14/12/2023

1 element af Mediedækning

**Øget sommerhusaktivitet kan skade miljøet**

Michael R. Rasmussen

24/12/2015

1 element af Mediedækning

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

Michael R. Rasmussen

01/12/2020

1 element af Mediedækning

**Aalborgs nye havnebad åbner med forsinkelse**

Michael R. Rasmussen

01/07/2011

2 elementer af Mediedækning

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

Michael R. Rasmussen

21/05/2019

1 element af Mediedækning

**AAU og Aalborg Kommune skal studere vejret**

Michael R. Rasmussen

23/03/2006

1 element af Mediedækning

## **Projekter**

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

Rasmussen, M. R. & Laursen, J.

01/09/2004 → ...

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

Rasmussen, M. R.

31/12/2003 → 31/12/2003

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

Rasmussen, M. R.

19/05/2010 → ...

**Illforbrug fra oversvømmede enge i Gravlev Ådal**

Frier, J., Rasmussen, M. R. & Iversen, N.

LIFE

19/05/2010 → ...

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

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

**MEMBIO - Dansk Membran Bioreaktor Teknologi**

Bentzen, T. R. & Rasmussen, M. R.  
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.  
19/05/2010 → ...

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

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

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

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

**Optimering af slutrensning i akvakultur**

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

**Optimering af tømmeprøces i sedimentationskegler i ferksvandsdambrug.**

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

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

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

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

Bentzen, T. R., Larsen, T. & Rasmussen, M. R.  
<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. & Rasmussen, M. R.  
01/07/2009 → 29/06/2012

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

Køser, C., Rasmussen, M. R., Andersen, L. V. & Thøgersen, L.  
VIA University College

01/06/2008 → 18/11/2011

**PhD Project: Using in-sewer sensors for accurate weather radar adjustement**  
Larsen, J. B., Rasmussen, M. R., Grum, M. & Gill, R.  
01/07/2009 → 29/06/2012

**PhD Project: WWTP Process Tank Modelling: The Integration of Advanced Hydrodynamic and Microbiological Models**  
Laursen, J. & Rasmussen, M. R.  
<ingen navn>  
01/09/2002 → 14/09/2007

**RADIATE: Radarprognoser til vandsektoren**  
Nielsen, J. M., Nielsen, J. E. & Rasmussen, M. R.  
01/01/2021 → 01/11/2023

**Sedimenttransport i afløbssystemer**  
Rasmussen, M. R., Schaarup-Jensen, K. & Larsen, T.  
19/05/2010 → ...

**Stoftilbageholdelse i regnvandsbassiner / Solids Removal in Detention Basins**  
Rasmussen, M. R. & Larsen, T.  
19/05/2010 → ...

**Storm- and Wastewater Informatics**  
Henze, M., Mikkelsen, P. S., Adeler, O. F., Mark, O., Grum, M., Neergaard Jacobsen, B., Johansen, N. B., Rasmussen, M. R. & Ahm, M. K. S.  
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. & Rasmussen, M. R.  
19/05/2010 → ...

**Tyngdeflyderen / Tyngdeflyderen**  
Rasmussen, M. R. & Frigaard, P.  
31/12/2003 → 31/12/2003

**Weather Radar Nowcasting for Urban Drainage Applications**  
Nielsen, J. M., Nielsen, J. E. & Rasmussen, M. R.  
01/12/2021 → 01/12/2024