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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

Research outputs

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, In: 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, In: Journal of Environmental Management. 349, 14 p., 119483.

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, In: Journal of Hydroinformatics. 25, 4, p. 1256-1275 20 p., 1257.

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, p. 784-790 7 p. (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., Svenningesen, R. S., Uggerby, M. & Rasmussen, S. H., 2022, København: Dansk Vand- og Spildevandsforening (DANVA). 36 p.

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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, p. 1.

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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 p. (DCE Technical Reports; No. 297).

Hydraulic effects of stormwater discharge into a small stream

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Modeling of Subsurface Throughflow in Urban Pervious Areas

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

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Activities

Department of the Built Environment (Organisational unit)

Michael R. Rasmussen (Chairperson)
1 Jan 2020

Dryp A/S (External organisation)
Michael R. Rasmussen (Chairperson)
2020

12th International Conference on Urban Drainage
Michael R. Rasmussen (Speaker)
18 Apr 2011 → 21 Apr 2011

International Symposium on Weather Radar and Hydrology
Michael R. Rasmussen (Speaker)
18 Apr 2011 → 21 Apr 2011

The International Congress on Advances in Civil Engineering
Michael R. Rasmussen (Speaker)
15 Sept 2008 → 17 Sept 2008

Forskningens Dag 2008
Michael R. Rasmussen (Speaker)
8 Jan 2008

Forskningens Dag : Institut for Byggeri og Anlæg
Michael R. Rasmussen (Speaker)
9 Jan 2007

Vandløbsadministration : Undersøgelser i Gravlev Ådal - Lindenborg Å
Michael R. Rasmussen (Speaker)
4 Apr 2006 → 5 Apr 2006

Nyhedsbrev : Aalborg Vejradar Nyhedsbrev (Journal)
Michael R. Rasmussen (Editor)
8 Sept 2005

The Faculty of Engineering and Science (Organisational unit)
Michael R. Rasmussen (Chairperson)
1 Jan 2005

Press/Media

70 procent mere regn i Nordjylland end normalt
Michael R. Rasmussen
19/01/2007
1 item of Media coverage

Badevand i centrum bedst tjekket
Michael R. Rasmussen
26/08/2011
1 item of Media coverage

Bedre målinger af kloakoverløb på vej
Michael R. Rasmussen
29/08/2019
2 items of Media coverage

Bedre syn på stranden

Michael R. Rasmussen & Jesper Ellerbæk Nielsen
18/07/2009
1 item of Media coverage

Danskudviklet radar skal forhindre drukneulykker på stranden

Michael R. Rasmussen
21/07/2009
3 items of Media coverage

DANVAs bestyrelse har godkendt uddeling af VUDP-midler for 2017

Michael Robdrup Rasmussen
06/10/2017
1 item of Media coverage

Debat: Vi kan hænge fremtidens skybrud til tørre

Michael R. Rasmussen
17/03/2023
1 item of Media coverage

DF i kamp mod stigende grundvand

Michael R. Rasmussen
23/07/2007
1 item of Media coverage

En trend til gavn for miljø og økonomi

Michael R. Rasmussen
23/09/2008
1 item of Media coverage

Fakta om overløb

Michael R. Rasmussen
04/02/2021
1 item of Media coverage

Farvekoder på rør kan forebygge ekskrementer i badevandet

Michael Robdrup Rasmussen
23/03/2018
1 item of Media coverage

Farvekoder på rør kan forebygge ekskrementer i badevandet

Michael Robdrup Rasmussen
05/04/2018
1 item of Media coverage

Flere steder i Nordjylland kæmper med vådt vejr

Michael R. Rasmussen
28/02/2020
1 item of Media coverage

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

Michael Robdrup Rasmussen
09/08/2017
2 items of Media coverage

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

Michael R. Rasmussen

01/07/2021 → 03/07/2021

3 items of Media coverage

Hollandsk model mod oversvømmede kældre

Michael R. Rasmussen

23/07/2007

1 item of Media coverage

Husk disse regler, når du bygger nyt

Michael R. Rasmussen

09/06/2020 → 12/06/2020

2 items of Media coverage

Hvidovre vil advare borgerne om oversvømmelse med SMS

Michael R. Rasmussen

06/12/2007

1 item of Media coverage

Højt Scala-byggeri går mod vinden

Michael R. Rasmussen

18/02/2013

1 item of Media coverage

Intelligent teknologi forbedrer vandmiljøet

Michael Robdrup Rasmussen

14/11/2018

1 item of Media coverage

Intelligent vejrvarslingssystem på vej

Michael R. Rasmussen

22/08/2008

1 item of Media coverage

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

Michael R. Rasmussen

12/05/2020 → 17/05/2020

6 items of Media coverage

Kan koste dyrt: Har du styr på disse boligregler?

Michael R. Rasmussen

18/05/2020 → 20/05/2020

4 items of Media coverage

Klimabassin skal få tjek på regnvandet

Michael R. Rasmussen

22/05/2019

3 items of Media coverage

Kloakker vil bryde sammen

Michael R. Rasmussen

30/12/2014

3 items of Media coverage

Kommuner skal tage ansvar for grundvandet

Michael R. Rasmussen

23/07/2007

1 item of Media coverage

Miljøudvalgsformand: "Vi bader jo i lort"

Michael R. Rasmussen

29/08/2019

1 item of Media coverage

Modeller for klimatilpasning passer

Michael R. Rasmussen

17/09/2019

1 item of Media coverage

Monsterregnskyl ødelægger uåbnet kæmpevej i Vejle

Michael R. Rasmussen

28/09/2023 → 29/09/2023

5 items of Media coverage

Naviger uden om boliger med oversvømmelsesrisiko

Michael R. Rasmussen

25/03/2020

4 items of Media coverage

Naviger uden om boliger med oversvømmelsesrisiko

Michael R. Rasmussen

02/04/2020 → 06/04/2020

2 items of Media coverage

Naviger uden om boliger med oversvømmelsesrisiko

Michael R. Rasmussen

24/04/2020

1 item of Media coverage

Nye investeringer og fuld udnyttelse af eksisterende systemer

Michael R. Rasmussen

14/10/2010

1 item of Media coverage

Ny måde at bruge vejradardata på

Michael R. Rasmussen

12/08/2021

1 item of Media coverage

Ny radar i Aalborg mod oversvømmelser

Michael R. Rasmussen

23/03/2006

1 item of Media coverage

Ny rapport: Billigere end antaget at måle og bremse kloakoverløb

Michael R. Rasmussen

07/09/2020 → 10/09/2020

5 items of Media coverage

Opfinder fordobler salget

Michael R. Rasmussen

05/01/2021

5 items of Media coverage

Opfinder: Om to år har vi 10-doblet salget

Michael R. Rasmussen

28/12/2019

2 items of Media coverage

Overløb er en sikkerhedsventil

Michael R. Rasmussen

05/11/2020 → 07/11/2020

4 items of Media coverage

Pluk

Michael R. Rasmussen

09/05/2022

1 item of Media coverage

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

Michael R. Rasmussen

03/03/2022 → 07/03/2022

4 items of Media coverage

Radar kan redde badegæsters liv

Michael R. Rasmussen

31/07/2008

1 item of Media coverage

Regnradar skal forudsige skybrud

Michael R. Rasmussen

12/09/2014

4 items of Media coverage

Sensorer forbedrer vandmiljø

Michael Robdrup Rasmussen

02/05/2018

1 item of Media coverage

Store kræfter på spil

Michael R. Rasmussen

11/10/2009

1 item of Media coverage

Stormflod på vej igen

Michael Robdrup Rasmussen

08/01/2019

1 item of Media coverage

Succesfuld jagt på kloakfejl

Michael Robdrup Rasmussen

16/04/2017

3 items of Media coverage

Tordenjægerne og vejrradaren

Michael R. Rasmussen

23/03/2006

1 Media contribution

Tusinder får miljøsmæk

Michael R. Rasmussen

13/10/2014

1 item of Media coverage

Urbane vinde plager bygning

Michael R. Rasmussen

20/05/2010

1 item of Media coverage

Vandkoncern bag nyt skybrudskort

Michael R. Rasmussen

14/12/2016

2 items of Media coverage

Vejrradar giver viden om regn

Michael R. Rasmussen

29/03/2006

1 item of Media coverage

Vejrradar til Hvidovre

Michael R. Rasmussen

07/12/2007

1 item of Media coverage

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 item of Media coverage

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 item of Media coverage

Vi må leve med oversvømmelser

Michael R. Rasmussen

29/01/2015

1 item of Media coverage

Vi må vænne os til regnen

Michael R. Rasmussen

19/01/2007

1 item of Media coverage

Vinden smadrer vinduer

Michael R. Rasmussen

20/05/2010

5 items of Media coverage

Vi skal blive bedre til at håndtere store regnmængder

Michael R. Rasmussen

06/12/2013

1 item of Media coverage

Vi skal regne om igen i et vigtigt klimaregnestykke

Michael R. Rasmussen

05/09/2019

2 items of Media coverage

VUDP: 10 millioner til udviklingsprojekter

Michael R. Rasmussen

14/12/2023

1 item of Media coverage

Øget sommerhusaktivitet kan skade miljøet

Michael R. Rasmussen

24/12/2015

1 item of Media coverage

Aalbor

Michael R. Rasmussen

21/05/2019

1 item of Media coverage

Aalborg-forsker: Afgørende at prioritere kloaksystemsindsats

Michael R. Rasmussen

01/12/2020

1 item of Media coverage

Aalborgs nye havnebad åbner med forsinkelse

Michael R. Rasmussen

01/07/2011

2 items of Media coverage

AAU og Aalborg Kommune skal studere vejret

Michael R. Rasmussen

23/03/2006

1 item of Media coverage

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Accumulation of Pollutants In Highway Detention Ponds

Bentzen, T. R., Larsen, T. & Rasmussen, M. R.

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21/08/2005 → 30/10/2008

CFD optimering af hydrodynamisk funktion i et ATS renseanlæg med

Rasmussen, M. R. & Laursen, J.

01/09/2004 → ...

Combining C-band and X-band weather radars for accurate precipitation measurements over urban areas

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

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

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31/12/2003 → 31/12/2003

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

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

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19/05/2010 → ...

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

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Larsen, T. & Rasmussen, M. R.

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Riis-Vestergaard, J., Skjølstrup, J., Frier, J., Grønborg, O., Rasmussen, M. R. & Laursen, J.

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

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Köser, C., Rasmussen, M. R., Andersen, L. V. & Thøgersen, L.
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Rasmussen, M. R., Schaarup-Jensen, K. & Larsen, T.
19/05/2010 → ...

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Rasmussen, M. R. & Larsen, T.
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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.
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