Maria Vlasiou
Associate Professor
Stochastic Resource Sharing Networks
Email: m.vlasiou@tue.nl

Quote

“Mathematics to me is humanity’s effort to find absolute truths and to approach reality. Stochastic processes in particular illustrate perfectly the regularity to be found even in chaos.”

Chair

Stochastic Processing Interacting Networks (University of Twente)
Stochastic resource-sharing networks (Eindhoven University of Technology)

Research profile

Maria Vlasiou is a Full Professor at the University of Twente, The Netherlands, an Associate Professor at the Eindhoven University of Technology (TU/e), and a Research Fellow of the European research institute EURANDOM. In addition, she represents the Netherlands at the European Women in Mathematics and the Committee for Women in Mathematics of the International Mathematical Union and is a board member of the Dutch women in mathematics network since 2017.
Her research centres on the performance of stochastic processing interacting networks. She currently runs three projects on the topic, focusing on energy networks, high-tech manufacturing, and on interacting networks in cells related to insulin signalling. Other interests include Lévy processes, perturbation analysis for heavy-tailed risk models, large deviations for non-monotone stochastic recursions, and proportional fairness in heavy traffic for bandwidth-sharing networks. She has supervised six PhD theses on these topics.
Prof. Vlasiou is associate editor in four journals and has refereed for about 45 international journals, conferences, and national science foundations. Her research has been funded by grants exceeding 3.7M from more than 10 science foundations, universities, societies, and organisations. She is the co-author of more than 50 refereed papers, the co-recipient of the best paper award in ICORES 2013, the Marcel Neuts student paper award in MAM8, the co-author of 3rd prize of the 8th conference in Actuarial Science, and has recently received the UPS George D. Smith prize of INFORMS on behalf of TU/e for which she was project coordinator and lead contact.

Academic background

Maria Vlasiou received her BSc (2002, Hons.) and PhD (2006) from the Aristotle University of Thessaloniki and TU/e, respectively. In 2006, she moved to the Georgia Institute of Technology, where she worked as a Research Engineer and as a Postdoctoral Fellow. Her research has been funded by grants from more than 10 science foundations and organizations.
Prof. Vlasiou serves on the editorial boards of IISE Transactions, Mathematical Methods of Operations Research, OR Spectrum, and INFOR.

Education and Teaching

Maria Vlasiou teaches courses in Probability, Stochastic processes, infectious-disease epidemiology, and performance modelling. She regularly supervises BSc, MSc, and PhD theses, internships, and EngD projects. She is also a graduate students' mentor.
Prof. Vlasiou has obtained her UTQ diploma in 2010 and has continued her training in education through various professional development courses. She has served in the departmental Didactics committee and UTQ committee and has obtained several grants on research in mathematics education.

Employment

Associate Professor

Associate Professor
Stochastic Resource Sharing Networks
Eindhoven University of Technology
Eindhoven, Netherlands
1 Feb 2026 → 31 Jan 2027

Professor

University of Twente
Enschede, Netherlands
1 Mar 2020 → present

Affiliated with

ATINER

BETA

CWI

EURANDOM

EWM The Netherlands

INFOMRS

LNMB

Lorenz Center
Partners in (semi-)industry

ASML

Philips Healthcare

VDL/ETG

Projects

600.649.000.10N006 Vlasiou NWO/RGC Grant Joint Research Scheme
Vlasiou, M. (Project Manager)
1/07/11 → 1/04/14

613.001.301 TOP Vlasiou
Vlasiou, M. (Project Manager)
1/03/14 → 22/02/21

Complexity in Transport and Logistics
Vlasiou, M. (Project Manager) & Schol, C. (Project member)
28/08/17 → 30/09/22

Composable Embedded Systems for Healthcare
Groote, J. F. (Project Manager) & Vlasiou, M. (Project member)
1/05/11 → 30/06/17

Error Bounds for Structured Markov Chains
Vlasiou, M. (Project Manager)
1/07/10 → 24/12/14

Meervoud Vlasiou: Layered queueing networks
Vlasiou, M. (Project Manager)
1/01/12 → 22/08/21

Stochastic processes driven by non-convex resource allocation problems
Vlasiou, M. (Project Manager) & Christianen, M. (Project member)
1/03/19 → 17/05/24

Recognition

Excellent Course Evaluation
Vlasiou, M. (Recipient), 2021

2017 AMSI-ANZIAM Lecturer
Vlasiou, M. (Recipient), 2017

TU/e's Women Wall of Fame
Vlasiou, M. (Recipient), 2017

Third prize
Vlasiou, M. (Recipient), 1 Jun 2014

MAM8 Marcel Neuts Best Student paper Award
Adan, I. J. B. F. (Recipient), Vatamidou, E. (Recipient), Vlasiou, M. (Recipient) & Zwart, A. P. (Recipient), 10 Jan 2014

Best paper award (ICORES 2013)
Vlasiou, M. (Recipient), 18 Feb 2013

"Thank a Teacher" teaching award
Vlasiou, M. (Recipient), 26 Mar 2008

"Thank a Teacher" teaching award
Vlasiou, M. (Recipient), 26 Nov 2007

Press/Media

TU/e-faculteit krijgt een prestigieuze prijs
Vlasiou, M.
16/11/22
1 Media contribution

Feest voor gelauwerde TU/e-wiskundemaster
Vlasiou, M.
11/11/22
1 Media contribution

Celebratory award ceremony for lauded mathematics master
Vlasiou, M.
11/11/22
1 item of Media coverage, 1 Media contribution

UPS Smith Prize Winner Reprise: Learning by Doing at the Eindhoven University of Technology
Vlasiou, M.
17/10/22
1 item of Media coverage

Looking back: the past five years of EWM-NL
Vlasiou, M.
2/06/22
1 Media contribution

= Prestigious UPS George Smith Prize for Mathematics Master Eindhoven University of Technology
Vlasiou, M.
6/04/22
1 item of Media coverage

Greek Women in Mathematics inaugural podcast
Vlasiou, M.
25/03/22
1 Media contribution

5.1 million euros made available for leading research in astronomy, computer science and mathematics
Vlasiou, M., Geurts, B. J. & Buchin, K. A.
9/01/19
1 item of Media coverage

Students gain most from maths-interests balance: Maria Vlasiou
Vlasiou, M.
22/02/17
1 Media contribution

Interviewee
Vlasiou, M.
7/09/06
1 Media contribution

Courses

Activities

Fork-join queues
Vlasiou, M. (Speaker)
Jul 2022

Queues on interacting networks
Vlasiou, M. (Speaker)
Jul 2022

Mathematics in Diaspora
Vlasiou, M. (Speaker)
Jun 2022

Addressing the gender imbalance in mathematics: Practical steps that have been successful in the Netherlands
Vlasiou, M. (Speaker)
Apr 2022

Setting up a national network
Vlasiou, M. (Speaker)
Feb 2022

The value of networking
Vlasiou, M. (Speaker)
Feb 2022

INFOR : Information Systems and Operational Research (Journal)
Vlasiou, M. (Editorial board member)

1 Jan 2022 → …

Learning by Doing at the Eindhoven University of Technology
Vlasiou, M. (Speaker)
2022

Nederlands Mathematisch Congres
Vlasiou, M. (Organiser)
2022 → …

Performance Evaluation of Computer and Communication Systems
Vlasiou, M. (Organiser)
2022 → …

UPS George D. Smith Prize Competition
Vlasiou, M. (Speaker)
2022

UPS George D. Smith Prize Winner Reprise
Vlasiou, M. (Speaker)
2022

Large Fork-join NetworksWith Nearly Deterministic Arrival And Service Times
Vlasiou, M. (Speaker)
Jul 2021

OR Spectrum (Journal)
Vlasiou, M. (Editorial board member)
1 Apr 2021 → …

The Tenth International Conference on Data Analytics
Vlasiou, M. (Organiser)
2021 → …

Large Fork-join Networks With Nearly Deterministic Arrival And Service Times
Vlasiou, M. (Speaker)
Nov 2020

A stochastic resource-sharing network for electric vehicle charging
Vlasiou, M. (Speaker)
Jun 2018

Simons Institute for the Theory of Computing
Vlasiou, M. (Visiting researcher)
30 Oct 2017 → 31 Dec 2017

Heavy-traffic approximations for a layered network with limited resources
Vlasiou, M. (Speaker)
11 Jul 2017

Lorenz Center (External organisation)
Vlasiou, M. (Member)
4 May 2017 → May 2022

Error bounds and approximations for heavy-tailed stochastic systems
Vlasiou, M. (Speaker)
6 Apr 2017

Australian Mathematical Sciences Institute (AMSI)
Vlasiou, M. (Visiting lecturer)
13 Feb 2017 → 22 Feb 2017

IISE Transactions (Journal)
Vlasiou, M. (Editorial board member)
1 Feb 2017 → …

53th ANZIAM conference (Australia and New Zealand Industrial and Applied Mathematics)
Vlasiou, M. (Participant)
Feb 2017

Error bounds and approximations for heavy-tailed stochastic systems
Vlasiou, M. (Keynote speaker)
Feb 2017

Heavy-traffic limits for layered queuing networks
Vlasiou, M. (Invited speaker)
Feb 2017

INFORMS Annual Meeting 2005
Vlasiou, M. (Member of programme committee)
2017

INFORMS Annual Meeting 2005
Vlasiou, M. (Chair)
2017

INFORMS Annual Meeting 2005
Vlasiou, M. (Participant)
2017

INFORMS Applied Probability Society conference
Vlasiou, M. (Member of programme committee)
2017

INFORMS Applied Probability Society conference
Vlasiou, M. (Chair)
2017

INFORMS Applied Probability Society conference
Vlasiou, M. (Participant)
2017

Layered and interacting queues
Vlasiou, M. (Invited speaker)
2017

Queues on interacting networks
Vlasiou, M. (Speaker)
2017

Queues on interacting networks
Vlasiou, M. (Speaker)
2017

Queues on interacting networks
Vlasiou, M. (Speaker)
2017

6th International Conference on Operations Research and Enterprise Systems (ICORES 2017)
Vlasiou, M. (Member of programme committee)
11 Feb 2016 → 25 Feb 2017

Mathematical Methods of Operations Research (Journal)
Vlasiou, M. (Editorial board member)
15 Jan 2016 → …

Asymptotic error bounds for truncated buffer approximations of a 2-node tandem queue
Vlasiou, M. (Speaker)
2016

University of Twente (External organisation)
Vlasiou, M. (Member)
2016

5th International Conference on Operations Research and Enterprise Systems (ICORES 2016)
Vlasiou, M. (Member of programme committee)
1 Mar 2015 → 25 Feb 2016

Speaker
Vlasiou, M. (Speaker)
1 Jul 2014 → …

National Science Foundation (External organisation)
Vlasiou, M. (Reviewer)
7 Oct 2013 → 20 Feb 2014

Wroclaw University of Science and Technology
Vlasiou, M. (Visiting researcher)
1 Jul 2013 → 21 Jul 2013

Hong Kong University of Science and Technology
Vlasiou, M. (Visiting researcher)
2 Mar 2013 → 31 Mar 2013

3rd International Conference on Operations Research and Enterprise Systems (ICORES 2014)
Vlasiou, M. (Member of programme committee)
1 Mar 2013 → 8 Mar 2014

4th International Conference on Operations Research and Enterprise Systems (ICORES 2015)
Vlasiou, M. (Member of programme committee)
1 Mar 2013 → 12 Jan 2015

2nd International Conference on Operations Research and Enterprise Systems (ICORES 2013), February 16-18, 2013, Barcelona, Spain
Vlasiou, M. (Speaker)
16 Feb 2013

Hong Kong University of Science and Technology
Vlasiou, M. (Visiting researcher)
8 Feb 2012 → 9 Mar 2013

Applied and Computational Mathematics (Journal)
Vlasiou, M. (Editorial board member)
2012 → 2014

Academic Leadership for Assistant Professors
Vlasiou, M. (Recipient)
1 Sept 2011 → 15 Jan 2012

Analytic properties of picking strategies in carousels
Vlasiou, M. (Speaker)
May 2011

California Institute of Technology
Vlasiou, M. (Visiting researcher)
1 Mar 2011 → 21 Mar 2011

BETA conference: Operations Management on the move
Vlasiou, M. (Organiser)
2 Nov 2010 → 3 Nov 2010

Tel Aviv University
Vlasiou, M. (Visiting researcher)
19 May 2010 → 5 Jun 2010

Isaac Newton Institute for Mathematical Sciences
Vlasiou, M. (Visiting researcher)
4 May 2010 → 19 May 2010

Wroclaw University of Science and Technology
Vlasiou, M. (Visiting researcher)
16 Apr 2010 → 30 Apr 2010

Isaac Newton Institute for Mathematical Sciences
Vlasiou, M. (Visiting researcher)
1 Mar 2010 → 28 Mar 2010

University Teaching Qualification
Vlasiou, M. (Recipient)
1 Jan 2010

Making Healthcare Processes Work
Vlasiou, M. (Organiser)
1 Oct 2009 → 26 Feb 2010

Columbia University
Vlasiou, M. (Visiting researcher)
4 Jul 2009 → 11 Jul 2009

A Levy input model with additional state-dependent services
Vlasiou, M. (Invited speaker)
17 May 2009

Wroclaw University of Science and Technology
Vlasiou, M. (Visiting researcher)
8 May 2009 → 29 May 2009

Georgia Institute of Technology
Vlasiou, M. (Visiting researcher)
21 Feb 2009 → 2 Mar 2009

Wroclaw University of Science and Technology
Vlasiou, M. (Visiting researcher)
19 Apr 2008 → 25 Jun 2008

Duke University
Vlasiou, M. (Visiting researcher)
20 Feb 2007 → 24 Feb 2007

University of Twente
Vlasiou, M. (Visiting researcher)
26 Sept 2006 → 9 Oct 2006

Indian Statistical Institute
Vlasiou, M. (Visiting researcher)
25 May 2006 → 6 Jun 2006

Research output

Heavy tails in dynamic flow networks: Universal explanation of their emergence
Janicka, A., Sloothaak, F., Vlasiou, M. & Zwart, B., 5 Jan 2026, arXiv.org, 46 p.

Refining the Complexity Landscape of Speed Scaling: Hardness and Algorithms
Antoniadis, A., Graafsma, D., Hoeksma, R. & Vlasiou, M., 19 Dec 2025, arXiv.org, 30 p.

Comparing approximations in the ASIP tandem queue
Geelen, W., Vlasiou, M. (Corresponding author-nrf) & Yeger, Y., Nov 2025, In: Performance Evaluation. 170, 17 p., 102523.

Does GLUT4 Queue? A Mechanistic Mathematical Model for Insulin Response in Adipocytes
Sherlock, B. D., Boon, M. A. A., Vlasiou, M. & Coster, A. C. F. (Corresponding author), Oct 2025, In: Bulletin of Mathematical Biology. 87, 10, 28 p., 141.

Improved likelihood estimation for noisy gamma degradation processes via sequential Monte Carlo
Buist, M., Vaisman, R. & Vlasiou, M. (Corresponding author-nrf), Sept 2025, In: Communications in Statistics: Simulation and Computation. 54, 9, p. 3520-3544 25 p.

Polyhedral Restrictions of Feasibility Regions in Optimal Power Flow for Distribution Networks
Christianen, M. H. M., van Kempen, S., Vlasiou, M. (Corresponding author-nrf) & Zwart, B., Jun 2025, In: IEEE Transactions on Control of Network Systems. 12, 2, p. 1587-1599 13 p., 10830547.

Polyhedral Restrictions of Feasibility Regions in Optimal Power Flow for Distribution Networks
Christianen, M., van Kempen, S., Vlasiou, M. (Corresponding author-nrf) & Zwart, B., Jun 2025, In: IEEE Transactions on Control of Network Systems. 12, 2, p. 1587-1599 13 p.

Learning by Doing: The Industrial and Applied Mathematics Program at Eindhoven University of Technology
Di Bucchianico, A., Spieksma, F. C. R. & Vlasiou, M. (Corresponding author), Apr 2025, In: INFORMS Journal on Applied Analytics. 55, 2, p. 85-100 16 p., 2.

Extreme values for the waiting time in large fork-join queues
Schol, D., Vlasiou, M. (Corresponding author-nrf) & Zwart, B., Mar 2025, In: Queueing Systems. 109, 1, 26 p., 9.

Emergence of Scale-Free Traffic Jams in Highway Networks: A Probabilistic Approach
Janicka, A., Sloothaak, F., Vlasiou, M. & Zwart, B., 19 Feb 2025, arXiv.org, 32 p.

Relation Between Electrical Grid Congestion and Bus Characteristics
Verdaasdonk, F., Vlasiou, M., Hoogsteen, G. & Hurink, J. L., 11 Feb 2025, *2024 IEEE PES Innovative Smart Grid Technologies Europe, ISGT EUROPE 2024.* Institute of Electrical and Electronics Engineers, 6 p. 10863286

Importance Sampling of Rare Events for Distribution Networks with Stochastic Loads
Christianen, M., Lam, H., Vlasiou, M. & Zwart, B., 20 Jan 2025, *2024 Winter Simulation Conference, WSC 2024.* Lam, H., Azar, E., Batur, D., Gao, S., Xie, W., Hunter, S. R. & Rossetti, M. D. (eds.). Institute of Electrical and Electronics Engineers , p. 3590-3601 12 p. 10838841

The Distance Between: An Algorithmic Approach to Comparing Stochastic Models to Time-Series Data
Sherlock, B. D., Boon, M. A. A., Vlasiou, M. & Coster, A. C. F. (Corresponding author), Sept 2024, In: Bulletin of Mathematical Biology. 86, 9, 41 p., 111.

Optimization of Inventory and Capacity in Large-Scale Assembly Systems Using Extreme-Value Theory
Meijer, M. S., Schol, D., van Jaarsveld, W., Vlasiou, M. & Zwart, B. (Corresponding author), Jun 2024, In: Stochastic Systems. 14, 2, p. 109-228 36 p.

Scale-free cascading failures: Generalized approach for all simple, connected graphs
Janicka, A., Sloothaak, F. & Vlasiou, M., 18 Mar 2024.

ASIP tandem queues with consumption
Yeger, Y. (Corresponding author), Boxma, O. J., Resing, J. & Vlasiou, M., Mar 2024, In: Performance Evaluation Review. 51, 4, p. 14-15 2 p.

Message from the Technical Program Committee Chairs
Barford, P., Vlasiou, M. & Ying, L., 23 Feb 2024, In: Performance Evaluation Review. 51, 4, p. 3-3 1 p.

ASIP tandem queues with consumption
Yeger, Y. (Corresponding author), Boxma, O., Resing, J. & Vlasiou, M., Jan 2024, In: Performance Evaluation. 163, 16 p., 102380.

Comparing power flow models in tree networks with stochastic load demands
Christianen, M. (Corresponding author), Vlasiou, M. & Zwart, A. P., 15 Dec 2023, *Operations Research and Enterprise Systems: 11th International Conference, ICORES 2022, Virtual Event, February 3–5, 2022, and 12th International Conference, ICORES 2023, Lisbon, Portugal, February 19-21, 2023, Revised Selected Papers.* Liberatore, F., Wesolkowski, S., Demange, M. & Parlier, G. H. (eds.). Cham: Springer, p. 138-167 30 p. (Communications in Computer and Information Science (CCIS); vol. 1985).

Polyhedral restrictions of feasibility regions in optimal power flow for distribution networks
Christianen, M. H. M., Kempen, S. V., Vlasiou, M. & Zwart, B., 7 Dec 2023.

Measuring Effects Of Mini-Lectures On Improving Student Engagement And Outcomes
Engbers, V. N., Gündlach, R. C., Regis, M. & Vlasiou, M., 2 Oct 2023, *SEFI 2023 - 51st Annual Conference of the European Society for Engineering Education: Engineering Education for Sustainability, Proceedings.* Reilly, G., Murphy, M., Nagy, B. V. & Jarvinen, H.-M. (eds.). p. 2020-2029 10 p.

Tail asymptotics for the delay in a Brownian fork-join queue
Schol, D. (Corresponding author), Vlasiou, M. & Zwart, B., Oct 2023, In: Stochastic Processes and their Applications. 164, p. 99-138 40 p.

Extreme values for the waiting time in large fork-join queues
Schol, D., Vlasiou, M. & Zwart, B., 15 Sept 2023.

Asymptotic analysis of Emden–Fowler type equation with an application to power flow models
Christianen, M. H. M. (Corresponding author), Janssen, A. J. E. M., Vlasiou, M. & Zwart, B., Sept 2023, In: Indagationes Mathematicae. 34, 5, p. 1146-1180 35 p.

Estimating Risk-aware Flexibility Areas for Electric Vehicle Charging Pools via AC Stochastic Optimal Power Flow
Giraldo, J. S. (Corresponding author), Bañol Arias, M. N., Vergara, P. P., Vlasiou, M., Hoogsteen, G. & Hurink, J. L., 1 Jul 2023, In: Journal of Modern Power Systems and Clean Energy. 11, 4, p. 1247-1256 10 p., 9994625.

Comparison of stability regions for a line distribution network with stochastic load demands
Christianen, M. H. M. (Corresponding author), Cruise, J., Janssen, A. J. E. M., Shneer, S., Vlasiou, M. & Zwart, B., Apr 2023, In: Queueing Systems. 103, 3-4, p. 187-239 53 p.

Simulation study for the comparison of power flow models for a line distribution network with stochastic load demands
Christianen, M. H. M., Vlasiou, M. & Zwart, B., 19 Feb 2023, *ICORES 2023 - Proceedings of the 12th International Conference on Operations Research and Enterprise Systems.* Liberatore, F., Wesolkowski, S. & Parlier, G. H. (eds.). p. 167-174 8 p.

Maximum waiting time in heavy-tailed fork-join queues
Schol, D., Vlasiou, M. & Zwart, B., 4 Nov 2022, In: arXiv. 2022, 24 p., 2211.02313.

Tail Asymptotics for the Delay in a Brownian Fork-Join Queue
Schol, D., Vlasiou, M. & Zwart, B., 9 Aug 2022, In: arXiv. 2022, 24 p., 2208.04796.

Asymptotic analysis of Emden-Fowler type equation with an application to power flow models
Christianen, M. H. M., Janssen, A. J. E. M., Vlasiou, M. & Zwart, B., 29 Jun 2022, In: arXiv. 2022, 33 p., 2206.14653.

A Fluid Model of an Electric Vehicle Charging Network
Aveklouris, A. (Corresponding author), Vlasiou, M. & Zwart, B., Jun 2022, In: Stochastic Systems. 12, 2, p. 151-180 30 p.

Large fork-join queues with nearly deterministic arrival and service times
Schol, D., Vlasiou, M. & Zwart, B., 1 May 2022, In: Mathematics of Operations Research. 47, 2, p. 1335-1364 30 p.

Queues on interacting networks
Vlasiou, M. (Corresponding author), Apr 2022, In: Queueing Systems. 100, 3-4, p. 553-555 3 p.

Comparison of stability regions for a line distribution network with stochastic load demands
Christianen, M. H. M., Cruise, J., Janssen, A. J. E. M., Shneer, S., Vlasiou, M. & Zwart, B., 17 Jan 2022, In: arXiv. 2022, 40 p., 2201.06405.

Complete resource pooling of a load-balancing policy for a network of battery swapping stations
Sloothaak, F. (Corresponding author), Cruise, J. R., Shneer, S., Vlasiou, M. & Zwart, B., Oct 2021, In: Queueing Systems. 99, 1-2, p. 65-120 56 p.

Extreme-value theory for large fork-join queues, with an application to high-tech supply chains
Meijer, M., Schol, D., Jaarsveld, W. V., Vlasiou, M. & Zwart, B., 19 May 2021, In: arXiv. 2021, 40 p., 2105.09189.

Speed of convergence to the quasi-stationary distribution for Lévy input fluid queues
Palmowski, Z. (Corresponding author) & Vlasiou, M., 1 Oct 2020, In: Queueing Systems. 96, 1-2, p. 153-167 15 p.

A fluid model of an electric vehicle charging network
Aveklouris, A., Vlasiou, M. & Zwart, B., 12 Apr 2020, In: arXiv. 2020, 33 p., 2004.05637.

Large fork-join networks with nearly deterministic service times
Schol, D., Vlasiou, M. & Zwart, B., 25 Dec 2019, In: arXiv. 2019, 36 p., 1912.11661v1.

Bounds and limit theorems for a layered queueing model in electric vehicle charging
Aveklouris, A. (Corresponding author), Vlasiou, M. & Zwart, B., 1 Oct 2019, In: Queueing Systems. 93, 1-2, p. 83-137 55 p.

A stochastic resource-sharing network for electric vehicle charging
Aveklouris, A. (Corresponding author), Vlasiou, M. & Zwart, B., Sept 2019, In: IEEE Transactions on Control of Network Systems. 6, 3, p. 1050-1061 12 p., 8709819.

Complete resource pooling of a load balancing policy for a network of battery swapping stations
Sloothaak, F., Cruise, J. R., Shneer, S., Vlasiou, M. & Zwart, B., 12 Feb 2019, In: arXiv. 2019, 60 p., 1902.04392.

Bounds and limit theorems for a layered queueing model in electric vehicle charging
Aveklouris, A., Vlasiou, M. & Zwart, B., 15 Oct 2018, In: arXiv. 2018, 36 p., 1810.05473.

Thematic poster on women in mathematics in the Netherlands
Vlasiou, M. & Kruseman, A., 31 Jul 2018.

Queueing networks for electric vehicle charging
Aveklouris, A., Vlasiou, M. & Zwart, B., 2018.

Stochastic networks for electric vehicle charging
Aveklouris, A., Vlasiou, M. & Zwart, B., 2018.

Heavy-traffic approximations for a layered network with limited resources
Aveklouris, A., Vlasiou, M., Zhang, J. & Zwart, A. P., 30 Dec 2017, In: Probability and Mathematical Statistics. 37, 2, p. 497-532 36 p.

A stochastic resource-sharing network for electric vehicle charging
Aveklouris, A., Vlasiou, M. & Zwart, A. P., 15 Nov 2017, In: arXiv. 1711.05561, 9 p., 1711.05561.

Speed of convergence to the quasi-stationary distribution for Lévy input fluid queues
Palmowski, Z. & Vlasiou, M., 10 Nov 2017, In: arXiv. 1711.04041, 11 p., 1711.04041.

Electric vehicle charging: A queueing approach
Aveklouris, A., Nakahira, Y., Vlasiou, M. & Zwart, A. P., 1 Sept 2017, In: Performance Evaluation Review. 45, 2, p. 33-35 3 p.

Electric vehicle charging: a queueing approach
Aveklouris, A., Nakahira, Y., Vlasiou, M. & Zwart, B., 2017, In: arXiv. 1712.08747.

Server waiting times in infinite supply polling systems with preparation times
Dorsman, J.-P., Perel, N. & Vlasiou, M., Apr 2016, In: Probability in the Engineering and Informational Sciences. 30, 2, p. 153-184

Asymptotic error bounds for truncated buffer approximations of a 2-node tandem queue
Vatamidou, E., Adan, I. J. B. F., Vlasiou, M. & Zwart, A. P., 2016. 41 p.

Dynamic server assignment in an extended machine-repair model
Dorsman, J. L., Bhulai, S. & Vlasiou, M., 2015, In: IIE Transactions. 47, 4, p. 392-413

Heavy-traffic asymptotics for networks of parallel queues with Markov-modulated service speeds
Dorsman, J. L., Vlasiou, M. & Zwart, B., 2015, In: Queueing Systems. 79, 3, p. 293-319 27 p.

Markovian polling systems with an application to wireless random-access networks
Dorsman, J. L., Borst, S. C., Boxma, O. J. & Vlasiou, M., 2015, In: Performance Evaluation. 85-86, p. 33-51 19 p.

A Lindley-type equation arising from a carousel problem
Vlasiou, M. (Corresponding author), Wessels, J. & Adan, I. J. B. F., 22 Apr 2014, In: arXiv. 2014, 10 p., 1404.5533.

A Lévy input fluid queue with input and workload regulation
Palmowski, Z. B., Vlasiou, M. & Zwart, B., 2014, In: Queueing Systems. 76, 1, p. 21-36

Corrected phase-type approximations for heavy-tailed queueing models in a Markovian environment
Vatamidou, E., Adan, I. J. B. F., Vlasiou, M. & Zwart, A. P., 2014.

Corrected phase-type approximations of heavy-tailed queueing models in a Markovian environment
Vatamidou, E., Adan, I. J. B. F., Vlasiou, M. & Zwart, A. P., 2014, Eindhoven: Eurandom. 48 p. (Report Eurandom; vol. 2014004)

Corrected phase-type approximations of heavy-tailed queueing models in a Markovian environment
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