





# Maria Vlasiou

 Stochastic Processing Interacting Networks  
 University of Twente  
 LNMB  
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## I. Earned Degrees

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Sept. 2009 – Mar. 2011    Certificaat Basiskwalificatie Onderwijs, 3TU.Onderwijs  
Sept. 2002 – Jan. 2005    Diploma in Mathematics of Operations Research, LNMB  
Sept. 2002 – Oct. 2006    PhD in Mathematics, Eindhoven University of Technology.  
Advised by Prof. Dr. I.J.B.F. Adan  
Oct. 2001 – Jan. 2002    Attendance of Masters of Science programmes in i) Mathematics, ii) Financial Mathematics, iii) Mathematics Education, Universität Bielefeld  
Sept. 1998 – July 2002    BSc Mathematics (summa cum laude), Aristotle University of Thessaloniki

## II. Employment History

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Apr. 2024 – present        Hypatia Professor, University of Twente  
Jan. 2024 – present        Director of LNMB, the Dutch Network on the Mathematics of Operations Research  
Mar. 2020 – present        Full Professor, University of Twente  
Jan. 2009 – present        Research Fellow, EURANDOM  
Aug. 2014 – Jan. 2024    Associate Professor, Eindhoven University of Technology  
May 2010 – Mar. 2018    Scientific staff member, Centrum Wiskunde & Informatica (CWI)  
Aug. 2008 – July 2014    Assistant Professor, Eindhoven University of Technology  
July 2007 – July 2008    Postdoctoral Fellow, Georgia Institute of Technology  
Nov. 2006 – July 2007    Research Engineer II, Georgia Institute of Technology  
Sept. 2002 – Oct. 2006    Graduate Research Assistant, EURANDOM

## III. Experience

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### A. Academic Organisation Roles

- Chair Technical Programme (Scientific) Committee of international and national conferences  
I have ample experience in the organisation of major events (> 250 participants); see [Section VII.A5](#). The role involves:
  - ★ Determined the programme committee (5–50 members)
  - ★ Responsible for programme / keynote speakers
  - ★ Coordinating refereeing process of > 100 submissions and issuing final determinations
  - ★ Coordinating with organising committee
- Associate editor of international journals in Operations Research and Industrial Engineering  
I have >15 years editorial experience; see [Section VII.A1](#). The role involves:
  - ★ Coordinating refereeing process and advising Editor in Chief on final determinations
  - ★ Co-determining priorities of the publication
  - ★ Deciding on publication awards and invited manuscripts
  - ★ Improving the quality of the refereeing process and the publication
- Panel member of funding agencies and institutes  
I have > 10 years of combined experience as panelist or board member of international agencies; see [Section VII.A2](#). The role involves:
  - ★ Provide expertise to assess the scientific merit and feasibility of proposed research projects.

- ★ Participate in panel discussions and deliberations to determine the selection of projects that align with the agency's funding priorities and objectives.
- ★ Contribute to the development of consensus reports or recommendations regarding the selection and funding of research projects.
- ★ Maintain confidentiality and ensure the integrity of the review process by maintaining the confidentiality of proposal content and discussions.
- ★ Promote diversity, equity, and inclusion by considering the potential impact of proposed research on underrepresented groups and encouraging equitable access to opportunities.

## B. Leadership Roles

- International committees / boards on women in mathematics  
I am very active in the broader international mathematical community, often representing the Netherlands and Europe in international bodies; see [Section VII.A3](#). The roles involve:
  - ★ Representation, Networking, Advocacy, Information dissemination, Collaboration, Reporting, and Events Organisation for international agencies
  - ★ Advisory role and drafting policy recommendations for national and international agencies
  - ★ Data collection in a national context
- President of the national association of women in mathematics  
I have chaired the Dutch association of women in mathematics (> 300 members), EWM-NL, for 5 years. Under my leadership, the association tripled its members and became the most recognised association of its kind globally, now serving as the de facto model to other sister associations. Some activities in this role have been:
  - ★ Advocacy with NWO on gender-neutral funding policies
  - ★ Advocacy with “Het Rectoren College der Nederlandse Rectores Magnifici” on gender-neutral tenure and promotion policies
  - ★ Organisation of > 5 events per year for the community
  - ★ Collaboration with national associations (e.g. KWG), events (e.g. NMC), and media (e.g. NAW) on the representation, networking and information dissemination on women in mathematics
  - ★ Mentoring and Outreach; see also [Section VII.A](#)

## C. Educational Leadership Roles

- Chair of the Didactics Committee
  - ★ Advise the Programme Committee on curriculum development
  - ★ Establish guidelines on assessment and evaluation
  - ★ Explore topics on educational research and teaching methodologies
  - ★ Ensure the alignment between the department's curriculum and broader institutional standards
- Modelling week coordinator
  - ★ Establish contacts with industry
  - ★ Procure new projects each year
  - ★ Assure the disciplinary fit and alignment with the learning goals of the projects
  - ★ Communicate with industrial partners pertaining to all logistical issues
  - ★ Help co-organise the modelling week
- Coordinator INFORMS UPS G. Smith prize application and process  
I conceived and led the process of nominating and defending the application of the Industrial and Applied Mathematics Master programme for this award. The role included:
  - ★ Prepare the complete application package
  - ★ Coordinate with services and committees at the university
  - ★ Liaison between INFORMS and TU/e
  - ★ Prepare finalist's package, present and defend the application

- ★ Coordinate media campaign
- ★ Author research paper on the innovative aspects of the programme
- Student mentor and coach
 

Selected faculty at TU/e serve as student mentors (for the MSc programme) or coaches (for the BSc programme). The role involves:

  - ★ Help students in making a coherent individualised study programme
  - ★ Provide information and assistance to exchange students
  - ★ Safeguard the programme's goals and quality

#### **D. Management**

- Associate chair cluster (> 150 fte). Some of the tasks in this role are:
  - ★ Administrative oversight (budgeting, resource allocation, personnel)
  - ★ Co-developing the strategic planning of the cluster
  - ★ Advocating with the department's board regarding strategic priorities, personnel, and budget allocation
  - ★ Responsible for the Awards and Prizes portfolio
- Chair departmental research evaluation
 

I have chaired the committee responsible for midterm research evaluation of the department and was a member of the committee of the subsequent research evaluation. The role involves:

  - ★ Planning and organisation of the evaluation process
  - ★ Committee leadership and coordination between all clusters
  - ★ Data collection and analysis
  - ★ Authoring the evaluation report
  - ★ Communication with the evaluating committee
  - ★ Follow-up, response to the evaluation, and long-term monitoring

#### **Overview of the Appendix**

- ★ Scholarly Accomplishments
- ★ Grants and Contracts
- ★ Teaching
- ★ Service
- ★ Honours and Awards
- ★ Outreach and Skills

# APPENDIX

## IV. Scholarly Accomplishments

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### A. Published Books and Parts of Books

1. M.H.M. Christianen, M. Vlasiou, and B. Zwart. Comparing power flow models in tree networks with stochastic load demands. *Invited paper*. In: *Operations Research and Enterprise Systems*. Editors: Federico Liberatore, Slawo Wesolkowski, Marc Demange, Greg H. Parlier. Book Series: *Communications in Computer and Information Science*, eISSN: 1865-0937, Springer, 2024.  
<https://link.springer.com/book/9783031496615>
2. M. Vlasiou. Renewal processes with costs and rewards. *Invited paper*. *Encyclopedia of Operations Research and Management Science*, edited by James J. Cochran, 2011.
3. M. Vlasiou. Regenerative processes. *Invited paper*. *Encyclopedia of Operations Research and Management Science*, edited by James J. Cochran, 2011.
4. M. Vlasiou. Lindley-type recursions. PhD thesis, Eindhoven University of Technology, 2006.

### B. Refereed Publications

5. A. Janicka, F. Sloothak, and M. Vlasiou. Scale-free cascading failures: Generalized approach for all simple, connected graphs. Submitted.
6. F. Verdaasdonk, M. Vlasiou, G. Hoogsteen, and J. Hurink. Relation between electrical grid congestion and bus characteristics. Submitted.
7. M. Christianen, H. Lam, M. Vlasiou, and B. Zwart. Importance sampling of rare events for distribution networks with stochastic loads. Submitted.
8. M. Buist, R. Vaisman, M. Vlasiou. Improved likelihood estimation for noisy Gamma degradation processes via sequential Monte Carlo. Submitted.
9. B.D. Sherlock, M.A.A. Boon, M. Vlasiou, and A. Coster. The distance between: An algorithmic approach to comparing stochastic models to time-series data. Submitted.  
DOI: [10.21203/rs.3.rs-3712556/v1](https://doi.org/10.21203/rs.3.rs-3712556/v1)
10. Y. Yeger, W. Geelen, and M. Vlasiou. Approximations for the ASIP tandem queue. Submitted.
11. D. Schol, M. Vlasiou, and B. Zwart. Extreme values for the waiting time in large fork-join queues. Submitted.
12. M.H.M. Christianen, S.F.M. van Kempen, M. Vlasiou, and B. Zwart. Polyhedral restrictions of feasibility regions in optimal power flow for distribution networks. Submitted.  
<http://arxiv.org/abs/2312.04300>
13. A. Di Bucchianico, F. Spijksma, and M. Vlasiou. Learning by doing: The Industrial and Applied Mathematics program at the Eindhoven University of Technology. Submitted.
14. D. Schol, M. Vlasiou, and B. Zwart. Maximum waiting time in heavy-tailed fork-join queues. Submitted.  
<https://arxiv.org/abs/2211.02313>
15. M. Vlasiou, J. Zhang, and B. Zwart. Insensitivity of proportional fairness in critically loaded bandwidth sharing networks. Submitted.  
<https://arxiv.org/abs/1411.4841>
16. M. Meijer, D. Schol, W.V. Jaarsveld, M. Vlasiou, and B. Zwart. Optimization of inventory and capacity in large-scale assembly systems using extreme-value theory. Accepted at *Stochastic Systems*.  
DOI: [10.1287/stsy.2022.0014](https://doi.org/10.1287/stsy.2022.0014)
17. Y. Yeger, O.J. Boxma, J. Resing, and M. Vlasiou. ASIP tandem queues with consumption. *IFIP Performance 2023*. Extended abstract: *SIGMETRICS Performance Evaluation Review*, **51**(4) : 14–15, 2024.  
DOI: [10.1145/3649477.3649486](https://doi.org/10.1145/3649477.3649486)
18. Y. Yeger, O.J. Boxma, J. Resing, and M. Vlasiou. ASIP tandem queues with consumption. *Performance Evaluation*, **163**, 102380, 2024.  
DOI: [10.1016/j.peva.2023.102380](https://doi.org/10.1016/j.peva.2023.102380)
19. D. Schol, M. Vlasiou, and B. Zwart. Tail asymptotics for the delay in a Brownian fork-join queue. *Stochastic Processes and their Applications*, **164** : 99–138, 2023.  
DOI: [10.1016/j.spa.2023.06.013](https://doi.org/10.1016/j.spa.2023.06.013)

20. V. Engbers, R. Gündlach, M. Regis, and M. Vlasίου. Measuring effects of mini-lectures on improving student engagement and outcomes. *51st SEFI Annual Conference of the European Society for Engineering Education*, September 2023. **Finalist best practice paper.**  
DOI: [10.21427/MPG1-QC26](https://doi.org/10.21427/MPG1-QC26)
21. M.H.M. Christianen, J. Cruise, A.J.E.M. Janssen, S. Shneer, M. Vlasίου, and B. Zwart. Comparison of stability regions for a line distribution network with stochastic load demands. *Queueing Systems*, **103**, 187–239, 2023.  
DOI: [10.1007/s11134-023-09873-z](https://doi.org/10.1007/s11134-023-09873-z)
22. M.H.M. Christianen, M. Vlasίου, and B. Zwart. Simulation study for the comparison of power flow models for a line distribution network with stochastic load demands. In *Proceedings of the 12th International Conference on Operations Research and Enterprise Systems*, ISBN 978-989-758-627-9; ISSN 2184-4372, pages 167–174, 2023.  
DOI: [10.5220/0000170500003396](https://doi.org/10.5220/0000170500003396)
23. M.H.M. Christianen, A.J.E.M. Janssen, M. Vlasίου, and B. Zwart. Asymptotic analysis of Lane-Emden type equation with an application to power flow models. *Indagationes Mathematicae*, **34**(5) : 1146–1180, 2023.  
DOI: [10.1016/j.indag.2022.12.001](https://doi.org/10.1016/j.indag.2022.12.001)
24. J.S. Giraldo, N. Bañol Arias, P.P. Vergara, M. Vlasίου, G. Hoogsteen, and J.L. Hurink. Estimating risk-aware flexibility areas for electric vehicle charging pools via AC stochastic optimal power flow. *Journal of Modern Power Systems and Clean Energy*, **11**(4) : 1247–1256, 2023.  
DOI: [10.35833/MPCE.2022.000452](https://doi.org/10.35833/MPCE.2022.000452)
25. A. Aveklouris, M. Vlasίου, and B. Zwart. A fluid model of an electric vehicle charging network. *Stochastic Systems*, **12**(2) : 133–225, 2022.  
DOI: [10.1287/stsy.2021.0084](https://doi.org/10.1287/stsy.2021.0084)
26. D. Schol, M. Vlasίου, and B. Zwart. Large fork-join queues with nearly deterministic arrival and service times. *Mathematics of Operations Research*, **47**(2) : 1335–1364, 2022.  
DOI: [10.1287/moor.2021.1171](https://doi.org/10.1287/moor.2021.1171)
27. M. Vlasίου. Queues on interacting networks. *Queueing Systems* **100** : 553–555, 2022.  
DOI: [10.1007/s11134-022-09771-w](https://doi.org/10.1007/s11134-022-09771-w)
28. F. Sloothak, J. R. Cruise, S. Shneer, M. Vlasίου, and B. Zwart. Complete resource pooling of a load balancing policy for a network of battery swapping stations. *Queueing Systems*, **99** : 65–120, 2021.  
DOI: [10.1007/s11134-021-09707-w](https://doi.org/10.1007/s11134-021-09707-w)
29. Z. Palmowski and M. Vlasίου. Speed of convergence to the quasi-stationary distribution for Lévy input fluid queues. *Queueing Systems*, **96** : 153–167, 2020.  
DOI: [10.1007/s11134-020-09664-w](https://doi.org/10.1007/s11134-020-09664-w)
30. A. Aveklouris, M. Vlasίου, and B. Zwart. A stochastic resource-sharing network for electric vehicle charging. *The IEEE Transactions on Control of Network Systems*, **6**(3) : 1050–1061, 2019.  
DOI: [10.1109/TCNS.2019.2915651](https://doi.org/10.1109/TCNS.2019.2915651)
31. A. Aveklouris, M. Vlasίου, and B. Zwart. Bounds and limit theorems for a layered queueing model in electric vehicle charging. *Queueing Systems*, **93**(1) : 83–137, 2019.  
DOI: [10.1007/s11134-019-09616-z](https://doi.org/10.1007/s11134-019-09616-z)
32. A. Aveklouris, M. Vlasίου, J. Zhang, and B. Zwart. Heavy-traffic approximations for a layered network with limited resources. *Probability and Mathematical Statistics*, **37**(2) : 497–532, 2017.  
DOI: [10.19195/0208-4147.37.2.15](https://doi.org/10.19195/0208-4147.37.2.15)
33. A. Aveklouris, Y. Nakahira, M. Vlasίου, and B. Zwart. Electric vehicle charging: a queueing approach. *ACM SIGMETRICS Performance Evaluation Review*, **45**(2) : 33–35.  
DOI: [10.1145/3152042.3152054](https://doi.org/10.1145/3152042.3152054)
34. E. Vatamidou, I.J.B.F. Adan, M. Vlasίου, and B. Zwart. Asymptotic error bounds for truncated buffer approximations of a 2-node tandem queue. *Proceedings of the Ninth International Conference on Matrix-Analytic Methods in Stochastic Models*, 2016.
35. J.L. Dorsman, N. Perel, and M. Vlasίου. Server waiting times in infinite supply polling systems with preparation times. *Probability in the Engineering and Informational Sciences*, **30**(2) : 153–184, 2016. DOI: [10.1017/S0269964815000339](https://doi.org/10.1017/S0269964815000339)



36. J.L. Dorsman, S.C. Borst, O.J. Boxma, and M. Vlasiou. Markovian polling systems with an application to wireless random-access networks. *Performance Evaluation*, **85–86** : 33–51, 2015.  
DOI: [10.1016/j.peva.2015.01.008](https://doi.org/10.1016/j.peva.2015.01.008)
37. J.L. Dorsman, M. Vlasiou, and B. Zwart. Heavy-traffic asymptotics for networks of parallel queues with Markov-modulated service speeds. *Queueing Systems*, **79**(3) : 293–319, 2015.  
DOI: [10.1007/s11134-014-9422-x](https://doi.org/10.1007/s11134-014-9422-x)
38. J.L. Dorsman, S. Bhulai, and M. Vlasiou. Dynamic server assignment in an extended machine-repair model. *IIE Transactions*, **47**(4) : 392–413, 2015.  
DOI: [10.1080/0740817X.2014.928962](https://doi.org/10.1080/0740817X.2014.928962)
39. E. Vatamidou, I.J.B.F. Adan, M. Vlasiou, and B. Zwart. On the accuracy of phase-type approximations of heavy-tailed risk models. *Scandinavian Actuarial Journal*, **2014**(6) : 510–534, 2014.  
DOI: [10.1080/03461238.2012.729154](https://doi.org/10.1080/03461238.2012.729154)
40. Z. Palmowski, M. Vlasiou, and B. Zwart. A Lévy input fluid queue with input and workload regulation. *Queueing Systems*, **76**(1) : 21–36, 2014.  
DOI: [10.1007/s11134-013-9358-6](https://doi.org/10.1007/s11134-013-9358-6)
41. E. Vatamidou, I.J.B.F. Adan, M. Vlasiou, and B. Zwart. Corrected phase-type approximations of heavy-tailed queueing models in a Markovian environment. Proceedings of the *Eighth International Conference on Matrix-Analytic Methods in Stochastic Models*. *Stochastic Models*, **30**(4) : 598–638, 2014. **Received the Marcel Neuts Student Paper Award.**  
DOI: [10.1080/15326349.2014.956227](https://doi.org/10.1080/15326349.2014.956227)
42. J.L. Dorsman, R.D. van der Mei, and M. Vlasiou. Analysis of a two-layered network with correlated queues by means of the power-series algorithm. *Performance Evaluation*, **70**(12) : 1072–1089, 2013. DOI: [10.1016/j.peva.2013.09.005](https://doi.org/10.1016/j.peva.2013.09.005)
43. E. Vatamidou, I.J.B.F. Adan, M. Vlasiou, and B. Zwart. Corrected phase-type approximations for the workload of the MAP/G/1 queue with heavy-tailed service times. *ACM SIGMETRICS Performance Evaluation Review – Special issue on the 31st international symposium on computer performance, modeling, measurements and evaluation (IFIPWG 7.3 Performance 2013)*, **41**(2) : 53–55, 2013.  
DOI: [10.1145/2518025.2518036](https://doi.org/10.1145/2518025.2518036)
44. J.L. Dorsman, M. Vlasiou, and B. Zwart. Parallel queueing networks with Markov-modulated service speeds in heavy traffic. *ACM SIGMETRICS Performance Evaluation Review – Special issue on the 31st international symposium on computer performance, modeling, measurements and evaluation (IFIPWG 7.3 Performance 2013)*, **41**(2) : 47–49, 2013.  
DOI: [10.1145/2518025.2518034](https://doi.org/10.1145/2518025.2518034)
45. J.L. Dorsman, O.J. Boxma, and M. Vlasiou. Marginal queue length approximations for a two-layered network with correlated queues. *Queueing Systems*, **75**(1) : 29–63, 2013.  
DOI: [10.1007/s11134-012-9338-2](https://doi.org/10.1007/s11134-012-9338-2)
46. E. Vatamidou, I.J.B.F. Adan, M. Vlasiou, and B. Zwart. Corrected phase-type approximations of heavy-tailed risk models using perturbation analysis. *Insurance Mathematics and Economics*, **53**(2) : 366–378, September 2013. **Received the 3rd prize at the 8th conference in Actuarial Science, Samos, 2014.**  
DOI: [10.1016/j.insmathco.2013.07.002](https://doi.org/10.1016/j.insmathco.2013.07.002)
47. N. Perel, J.L. Dorsman, and M. Vlasiou. Cyclic-type polling models with preparation times. *2nd International Conference on Operations Research and Enterprise Systems*, pp. 14–23, February 2013. **Received the Best Paper Award.** DOI: [10.5220/0004206500140023](https://doi.org/10.5220/0004206500140023)
48. R. Bossier, M. Vlasiou, and I.J.B.F. Adan. Analytic properties of two-carousel systems. *Probability in the Engineering and Informational Sciences*, **27**(1) : 57–84, 2013.  
DOI: [10.1017/S0269964812000307](https://doi.org/10.1017/S0269964812000307)
49. M. Vlasiou, J. Zhang, B. Zwart, and R.D. van der Mei. Separation of timescales in a two-layered network. Proceedings of the *24th International Teletraffic Congress (ITC 24)*, Krakow, Poland, 2012.  
<https://ieeexplore.ieee.org/document/6331834>
50. Z. Palmowski and M. Vlasiou. A Lévy input model with additional state-dependent services. *Stochastic Processes and their Applications*, **121**(7) : 1546–1564, 2011.  
DOI: [10.1016/j.spa.2011.03.010](https://doi.org/10.1016/j.spa.2011.03.010)

51. N. Litvak and M. Vlasiou. A survey on performance analysis of warehouse carousel systems. *Invited paper. Statistica Neerlandica*, **64**(4) : 401–447, 2010.  
DOI: [10.1111/j.1467-9574.2010.00454.x](https://doi.org/10.1111/j.1467-9574.2010.00454.x)
52. M. Vlasiou, Z. Palmowski. Tail asymptotics for a random sign Lindley recursion. *Journal of Applied Probability*, **47**(1) : 72–83, 2010.  
DOI: [10.1239/jap/1269610817](https://doi.org/10.1239/jap/1269610817)
53. M. Vlasiou, I.J.B.F. Adan, and O.J. Boxma. A two-station queue with dependent preparation and service times. *European Journal of Operational Research*, **195** : 104–116, 2009.  
DOI: [10.1016/j.ejor.2008.01.027](https://doi.org/10.1016/j.ejor.2008.01.027)
54. M. Vlasiou. A Course on Queueing Models. *Journal of the American Statistical Association*, **103**(481) : 429–430, 2008.  
DOI: [10.1198/jasa.2008.s220](https://doi.org/10.1198/jasa.2008.s220)
55. M. Vlasiou, U. Yechiali. M/G/ $\infty$  polling systems with random visit times. *Probability in the Engineering and Informational Sciences*, **22**(1) : 81–106, 2008.  
DOI: [10.1017/S0269964808000065](https://doi.org/10.1017/S0269964808000065)
56. O.J. Boxma, M. Vlasiou. On queues with service and interarrival times depending on waiting times. *Queueing Systems*, **56**(3–4) : 121–132, 2007.  
DOI: [10.1007/s11134-007-9011-3](https://doi.org/10.1007/s11134-007-9011-3)
57. M. Vlasiou. A non-increasing Lindley-type equation. *Queueing Systems*, **56**(1) : 41–52, 2007.  
DOI: [10.1007/s11134-007-9029-6](https://doi.org/10.1007/s11134-007-9029-6)
58. M. Vlasiou, B. Zwart. Time-dependent behaviour of an alternating service queue. *Stochastic Models*, **23**(2) : 235–263, 2007.  
DOI: [10.1080/15326340701300787](https://doi.org/10.1080/15326340701300787)
59. M. Vlasiou, I.J.B.F. Adan. Exact solution to a Lindley-type equation on a bounded support. *Operations Research Letters*, **35**(1) : 105–113, 2007.  
DOI: [10.1016/j.orl.2005.12.004](https://doi.org/10.1016/j.orl.2005.12.004)
60. M. Vlasiou, I.J.B.F. Adan. An alternating service problem. *Probability in the Engineering and Informational Sciences*, **19**(4) : 409–426, 2005.  
DOI: [10.1017/S0269964805050254](https://doi.org/10.1017/S0269964805050254)
61. M. Vlasiou, I.J.B.F. Adan, J. Wessels. A Lindley-type equation arising from a carousel problem. *Journal of Applied Probability*, **41**(4) : 1171–1181, 2004.  
DOI: [10.1239/jap/1101840561](https://doi.org/10.1239/jap/1101840561)

### C. Posters

62. A. Janicka, F. Sloothak, and M. Vlasiou. Scale-free cascading failures: Generalized approach for all simple, connected graphs. 59th Dutch National Mathematical Congress, Utrecht, April 2–3, 2024.
63. M.H.M. Christianen, M. Vlasiou, and B. Zwart. Comparison of power flow models in a queueing framework. 23rd Conference of the International Federation of Operational Research Societies.
64. D. Schol, M. Vlasiou, and B. Zwart. Extreme Values of Large Fork-Join Queues. Stochastic Networks Conference, Ithaca, June 20–24, 2022.
65. A. Aveklouris, M. Vlasiou, and B. Zwart. Stochastic networks for electric vehicle charging. Stochastic Networks Conference, Edinburgh, June 18–22, 2018.
66. A. Aveklouris, M. Vlasiou, and B. Zwart. Queueing Networks for Electric Vehicle Charging. 54-th Dutch National Mathematical Congress, Veldhoven, April 3–4, 2018.
67. E. Vatamidou, I.J.B.F. Adan, M. Vlasiou, and B. Zwart. Corrected phase-type approximations for heavy-tailed queueing models in a Markovian environment. The 2014 Stochastic Networks Conference, Amsterdam, June 23–27, 2014.
68. E. Vatamidou, I.J.B.F. Adan, M. Vlasiou, and B. Zwart. Corrected phase-type approximations for the workload of the MAP/G/1 queue with heavy-tailed service times. YEQT VII Workshop, Scheduling and Priorities in Queueing Systems, EURANDOM, November 4–6, 2013.
69. E. Vatamidou, I.J.B.F. Adan, M. Vlasiou, and B. Zwart. Corrected phase-type approximations for the workload of the MAP/G/1 queue with heavy-tailed service times. 7th International Confer-



ence on Lévy Processes: Theory and Applications, Wrocław, July 15–19, 2013.

## D. Other Publications

70. P. Barford, M. Vlasiou, L. Ying. Editorial: Special issue on IFIP performance 2023. *Performance Evaluation*, **163**, 102393, 2024.  
DOI: [10.1016/j.peva.2023.102393](https://doi.org/10.1016/j.peva.2023.102393)
71. P. Barford, M. Vlasiou, L. Ying. Message from the Technical Program Committee Chairs. *SIGMETRICS Performance Evaluation Review*, **51**(4) : 3, 2024.  
DOI: [10.1145/3649477.3649480](https://doi.org/10.1145/3649477.3649480)
72. M. Vlasiou. Being a graduate of IAM is a source of pride. *Supremum* **50**(1) : 5–7, 2023. ([link](#))
73. A. Di Bucchianico and M. Vlasiou. Prestigious INFORMS UPS George D. Smith Prize for the Industrial and Applied Mathematics Master programme of TU/e. European Consortium for Mathematics in Industry Blog. ([link](#))
74. S. Hendriks, H. Melkonian, and M. Vlasiou. Women in Mathematics. (Poster printed at several journals and exhibitions, available [here](#).)
75. M. Vlasiou. Looking back: the past five years of EWM-NL – Nieuw Archief voor Wiskunde 5/23 nr. 2 juni 2022.
76. M. Vlasiou, and A. Kruseman. Thematic poster on women in mathematics in the Netherlands. World Meeting for Women in Mathematics, Rio de Janeiro, July 31, 2018.

## E. Presentations in the past 5 years

### E1. Keynote Addresses and Plenary Lectures

Oct. 2022	Learning by Doing at the Eindhoven University of Technology. INFORMS Annual meeting 2022
Feb. 2022	Setting up a national network. Red de Mujeres Matemáticas, Ecuador
Feb. 2022	The value of networking. 2nd Austrian Day of Women in Mathematics
Jun. 2018	A stochastic resource-sharing network for electric vehicle charging. <i>Stochastic Models VI</i> , Bedlewo
Feb. 2017	Error bounds and approximations for heavy-tailed stochastic systems. <i>ANZIAM 2017</i> , Hahndorf
Feb. 2017	Queues on interacting networks. Series of public lectures, 2017 AMSI-ANZIAM Lecturer. The University of Adelaide; The University of Western Australia; The University of Melbourne
Feb. 2017	Layered and interacting queues. Specialist lecture, 2017 AMSI-ANZIAM Lecturer. Victoria University
Feb. 2017	Heavy-traffic limits for layered queueing networks. Specialist lecture, 2017 AMSI-ANZIAM Lecturer. The University of Sydney

### E2. Invited Conference and Workshop Presentations

Aug. 2024	<i>Upcoming. Stochastic reflection workshop. Isaac Newton Institute</i>
Aug. 2024	<i>Upcoming. 11th World Congress in Probability and Statistics</i>
Dec. 2022	Using Videos To Increase Motivation And Improve Learning Outcomes Of Students. 4TU.CEE TU/e Innovation Fund conference
Jul. 2022	Fork-join queues. EURO 2022, Espoo
Jul. 2022	Queues on interacting networks. First Workshop of Greek Women in Mathematics
Apr. 2022	UPS George D. Smith Prize Winner Reprise, INFORMS Business Analytics Conference 2022, Houston
Apr. 2022	UPS George D. Smith Prize Competition, INFORMS Business Analytics Conference 2022, Houston
Jul. 2021	Large Fork-join Networks With Nearly Deterministic Arrival And Service Times. EURO 2021, Athens

Nov. 2020	Large Fork-join Networks With Nearly Deterministic Arrival And Service Times. INFORMS annual meeting, National Harbor, USA and Processes, Edinburgh, UK. Edinburgh, UK.
July 2017	Heavy-traffic approximations for a layered network with limited resources. 19th INFORMS APS Conference, Evanston

### E3. Invited Seminar Presentations

Nov. 2022	Power Systems and Applied Probability. DAMUT-colloquium, <i>University of Twente</i> .
Apr. 2022	Power Systems and Applied Probability: Electric Vehicles, AI for Energy and Sustainability Think Tank seminar series, <i>TU Delft AI Energy Lab and the PowerWeb Institute</i> .
Apr. 2017	Error bounds and approximations for heavy-tailed stochastic systems. DAMUT-colloquium, <i>University of Twente</i> . Host: Prof. Dr. Stephan van Gils

### E4. Other Presentations

Feb. 2023	Women in Academia: challenges and best practices. Women in Nonlinear Dispersive PDEs workshop, Banff International Research Station
Dec. 2022	Activities in the Netherlands by the Dutch association of women in mathematics. EWM coordinators meeting
Jun. 2022	Fitting in: working across cultures. Female Faculty Network Twente
June 2022	Mathematics in Diaspora. 1st Women Mathematicians in Cyprus Networking Event, Cyprus
Apr. 2022	Innovative aspects of the Master programme in Industrial and Applied Mathematics. Department Dialogue, TU/e
Apr. 2022	Addressing the gender imbalance in mathematics: Practical steps that have been successful in the Netherlands. African Women in Mathematics (AWiM) Conferences and Seminars, <i>Stellenbosch University</i>
Apr. 2022	EWM-NL annual report presentation. National Mathematics Congress
Mar. 2022	Study+ Studying with extra support. Department Dialogue, TU/e
Mar. 2022	Greek Women in Mathematics inaugural podcast
Feb. 2022	General Assembly of the Committee for Women in Mathematics. International Mathematical Union
Oct. 2021	Using Videos To Increase Motivation And Improve Learning Outcomes Of Students. INFORMS annual meeting
Jun. 2021	Panelist Insight Out. NWO
Feb. 2021	“What’s cooking”. National Mathematics Congress
Nov. 2020	Researcher researched. Interview with Abacus, University of Twente
Oct. 2020	EWM-NL annual report presentation. EWM coordinators meeting
Apr. 2019	EWM-NL annual report presentation. National Mathematics Congress

### F. Other Professional Activities

#### F1. Visiting Professorships and Long-term Visits

- ★ *Stochastic systems for anomalous diffusion* programme, Newton Institute, Cambridge, Aug.–Oct. 2024
- ★ 2017 AMSI-ANZIAM Lecturer. Australian Mathematical Sciences Institute, February 2017
- ★ *Algorithms and Uncertainty* programme, Simons Institute for the Theory of Computing, Berkeley, November–December 2016
- ★ Hong Kong University of Science and Technology, February 2012 and March 2013
- ★ California Institute of Technology, March 2011
- ★ Tel Aviv University, May 2010
- ★ *Stochastic Processes in Communication Sciences* programme, Newton Institute, Cambridge, March and May 2010
- ★ Columbia University, July 2009

- ★ Georgia Institute of Technology, February 2009
- ★ Wrocław University, May and June 2008, April and May 2009, April 2010, July 2013
- ★ Duke University, February 2007
- ★ Twente University, October 2006
- ★ Indian Statistical Institute, May 2006

## F2. Development

Attendance of the training courses:

- ★ “Mindlab”, developed by Ellen Giebels, University of Twente, 2024
- ★ “Active Bystander Training”, developed by Su Nandy and Scott Solder, Facilitator: Mo Forgan, June 2023
- ★ “Hoe geef ik een goede Dit Doe Ik Gastles?”, by Tess Schoneveld - project manager VHTO, 2022
- ★ “Inclusief werkgeverschap: je persoonlijke invloed op het diversiteitsbeleid in de organisatie”, by Rahel de Vriend - senior project manager VHTO, 2022
- ★ “Publishing Ethics-case studies workshop” - Taylor and Francis, 2020
- ★ “Research & Publishing Ethics – Ethics and Integrity in Scholarly Publishing” - Taylor and Francis, 2020
- ★ “Optimizing Peer Review” - Taylor and Francis, 2020
- ★ “Post-publication Amplification” - Taylor and Francis, 2020
- ★ “Open Science workshop” - Taylor and Francis, 2020
- ★ “Inclusive Selection and Assessment”, by Sandra Doelman - Talent naar de Top, 2020
- ★ “Academic Leadership for Associate Professors” by GITP, 2019
- ★ “Awareness in Selection processes and inclusive evaluation”, by Sandra Doelman - Talent naar de Top, 2018
- ★ “Dealing with Work Pressure” by ElroyCOM, 2017
- ★ “Performance Skills: Master Class” by Greep, 2017
- ★ “Conflict Management”, by Brigitte Hertz, 2017
- ★ “Gender Bias in the reviewing process”, National Science Foundation (NSF-USA), 2013 and 2015
- ★ “Academic Leadership for Assistant Professors” by Eva Wiltingh BV, 2011
- ★ Obtained the University Teaching Qualification (BKO) diploma, 2010
- ★ “(IS) Information Security – What Every Business Manager Faculty & Researcher Should Know”, offered at Georgia Tech, 2007

## V. Grants and Contracts

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### A. As Principal and Co-Principal Investigator

1. "Modular and Integrated Sustainable Datacenter". Important Projects of Common European Interest (IPCEI), 2024. €34.075.448
2. Stimulation Project Application Funds. EEMCS Faculty, University of Twente, 2023. €10.000
3. "The mathematics of stochastic transport and signalling in cells". Australian Research Council, 2020. AUD 879.655
4. "MEMI: Measurable effects of mini-lectures on improving student engagement and outcomes". 4TU.CEE Innovation Funds, 2020. €10.000
5. M&CS internal proposal for teaching innovation, 2020. €3600
6. "Stochastic processes driven by non-convex resource allocation problems". TOP-Grant research scheme, Netherlands Organisation for Scientific Research (NWO), 2019 – 2023. €249.038
7. Visitor grant. Dutch Stochastics cluster (STAR), 2018. €1500
8. "Complexity in high-tech manufacturing". Complexity in Transport and Logistics research scheme, Netherlands Organisation for Scientific Research (NWO), 2017 – 2021. €866.090
9. "Limited resources in layered networks". TOP-Grant research scheme, Netherlands Organisation for Scientific Research (NWO), 2014 – 2018. €216.600
10. Visitor grant. Dutch Stochastics cluster (STAR), 2012. €2000
11. "Layered queuing networks". Individual grant in the MEERVOUD programme, Netherlands Organisation for Scientific Research (NWO), 2012 – 2018. €207.000
12. "Analysis of limited resource sharing models". Samenwerking Hong Kong – Joint Research Scheme (JRS). Netherlands Organisation for Scientific Research (NWO), 2011 – 2013. €6000 + HKD 60.000
13. "Error Bounds for Structured Markov chains". Free Competition. Netherlands Organisation for Scientific Research (NWO), 2010 – 2013. €215.013
14. "Multilayered queuing systems". Dutch Stochastics cluster (STAR) through a grant by the Netherlands Organisation for Scientific Research (NWO), 2010 – 2011. €100.000
15. Conference support. Netherlands Organisation for Scientific Research (NWO), 2010. €2250
16. Travel and visitor grant. Eindhoven University of Technology, Logistics Operations and Information Systems, 2010. €700
17. Conference support guarantee. Centre for Telematics and Information Technology, University of Twente, 2010. €1000
18. Conference support guarantee. Eindhoven University of Technology, 2010. €2000
19. Travel grant. Applied Probability Society, Ithaca, 2009. €700
20. Travel grant. Eindhoven University of Technology, Logistics Operations and Information Systems, 2009. €700
21. Personal grant in the Women in Science framework, Eindhoven University of Technology, 2008 – 2014. €250.000
22. Full scholarship for post-graduate studies from the legacy of L. Athanasoula, Aristotle University of Thessaloniki, 2003 – 2007. €45.000
23. Erasmus grant for attendance of the Masters programme at the university of Bielefeld. European Union, Education, Audiovisual and Culture Agency Executive Agency, 2001 – 2002. €2500
24. Travel grant for attending a summer course on Management, in Eindhoven, The Netherlands. Board of European Students of Technology, 2001. €500
25. Scholarship for excellence in undergraduate studies. Greek State Scholarships Foundation, 2000, 2001
26. Scholarship for 1st place in admittance Exams. Greek State Scholarships Foundation, 1998

### B. As Coordinator or Investigator

27. ICAI lab "AI for Energy Grids" in the LTP ROBUST programme, NWO, 2023 – 2032
28. LLP bilateral agreement (Erasmus programme) and follow ups of this programme. Agreements with 5 universities. European Union, Education, Audiovisual and Culture Agency Executive Agency, 2009 – 2017

## VI. Teaching

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### A. Individual Student Guidance

#### A1. PhD Students

- 2023 – Flin Verdaasdonk. “Decentralised control of electricity flows”  
★ Member of the ICAI ROBUST lab “AI for Energy Grids”  
★ Co-advised with J.L. Hurink (UT) and G. Hoogsteen (UT)
- 2022 – Agnieszka Janicka. “The emergence of heavy tails in stochastic networks”  
★ Recipient 2024 Silver KWG Poster Competition prize  
★ Recipient 2023 Gold KWG Poster Competition prize  
★ Co-advised with F. Sloothaak (TU/e)
- 2022 – Brock Sherlock. “The mathematics of stochastic transport and signalling in cells”  
★ Co-advised with A. Coster (UNSW) and M. Boon (TU/e)
- 2019 – 2024 Mark Christianen. “Stochastic processes driven by non-convex resource allocation problems”  
★ Co-advised with B. Zwart (CWI)
- 2018 – 2023 Dennis Schol. “Extreme-value theory for large fork-join queues” ([link](#))  
★ Co-advised with B. Zwart (CWI)
- 2015 – 2020 Angelos Aveklouris. “Layered stochastic networks with limited resources” ([link](#))  
★ First position: Booth School of Business, The University of Chicago  
★ Co-advised with B. Zwart (CWI)
- 2010 – 2015 Eleni Vatamidou. “Error analysis of structured Markov chains”. ([link](#))  
★ First position: INRIA, Sophia Antipolis  
★ *Seal of Excellence* for a Horizon 2020 Marie Skłodowska-Curie proposal, European Commission  
★ Winner of Marcel Neuts Student Paper Award  
★ 3rd prize at the 8th Conference in Actuarial Science  
★ Finalist Beta PhD Award 2017  
★ Co-advised with I.J.B.F. Adan (TU/e) and B. Zwart (CWI)
- 2010 – 2015 Jan-Pieter Dorsman. “Layered queueing networks : performance modelling, analysis and optimisation”. ([link](#))  
★ First position: Mathematical Institute, Leiden University  
★ Runner-up Willem R. van Zwet Award 2015  
★ Finalist Stieltjes prize 2015  
★ **Winner** of ICORES 2013 Best Paper Award  
★ Co-advised with R. van der Mei (CWI) and O.J. Boxma (TU/e)
- 2010 – 2014 Nir Perel. “The Israeli queue, and polling systems with preparation times”  
★ First position: Shenkar College of Engineering and Design, Ramat Gan  
★ **Winner** of The Abraham Mehrez Prize for Excellent Work of a Graduate Student in Operations Research  
★ **Winner** of ICORES 2013 Best Paper Award  
★ Co-advised with U. Yechiali (Tel Aviv University)

#### A2. MSc Students

- Spring 2023 Wesley Geelen. “Applying the PSA algorithm to ASIP queueing networks”
- Spring 2022 Merel Buist. “The estimation performance of several particle filtering algorithms on the likelihood estimator of parameters of the gamma process under noisy data”

Spring 2022	Jop Zwienenberg. "A Markovian approach to mobile user classification with semantic location data in mobility chains" ( <a href="#">link</a> )
Spring 2022	Hanneke Valkenburg. "Exploratory research on the effects of strategic behaviour in long-term defence planning. a game-theoretic approach" ( <a href="#">link</a> )
Fall 2021	Cintha Kooistra — in progress
Fall 2016	Aukje Boef. "Analyzing the dock performance in a Jumbo distribution center" ( <a href="#">link</a> )
Fall 2016	Simon Voorberg. "Using demand to prevent ageing and depreciation" ( <a href="#">link</a> )
Spring 2014	Eleni Sergidou. "Comparison of ruin probability approximations in case of real data". ( <a href="#">link</a> )
Spring 2009	Hsin-Ning Yeh. "Optimization Scheduling in Health Care Facilities. Case Studies of Rijndam Revalidation Center & Erasmus Medical Center". ( <a href="#">link</a> )

### A3. Independent Study with Graduate Students

2020	Agnieszka Janicka. Internship with LIME
Fall 2020	Leander van der Bijl. Internship with PCA
Fall 2020	Ilona Hoenderop. Internship with Sioux Technologies
Fall 2016	Myrte de Junker. Internship with LIME
Spring 2016	Simon Voorberg. Internship with FloraHolland
Fall 2009	Tong Sun. Studies in Epidemiology
Spring 2009	Hanne Deckers. Internship with the Port of Singapore Authority
Spring 2009	Koen Staats (PDEng). Sponsored research with the Port of Singapore Authority

### A4. Undergraduate Students

2022	Margriet Eijken. "Energy-efficient data-center scheduling " ( <a href="#">link</a> ) <b>Received the best thesis presentation award of the department.</b>
2022	Vincent Engbers. "Effects of extracurricular videos on the grades of students and their engagement" ( <a href="#">link</a> )
2021	Vivianne Dijkstra. "Simulation study of a newsvendor game in a two-server fork-join queue" ( <a href="#">link</a> )
2021	Trudy Vos. "Insulin-induced GLUT4 translocation" ( <a href="#">link</a> )
2020	Vivianne Dijkstra. "Simulation study of a newsvendor game in a two-server fork-join queue"
2020	Agnieszka Janicka. "A two-class terror queue model" ( <a href="#">link</a> ) <b>Received the Thesis Award 2021 as the best BSc thesis of the Bachelor Program Applied Mathematics completed in 2020.</b>
2020	Erik de Wit. "Modeling congestion at waterways entrances" ( <a href="#">link</a> )
2018	Floris Tulner. "Stochastic models for battery swapping schemes" ( <a href="#">link</a> )
2018	Luuk de Vlugt. "Disruption risk management" ( <a href="#">link</a> )
2016	Sander Kerstens. "Maritime transportation: evaluating sojourn times in narrow water passages under disruptions"

### A5. Mentorship of Postdoctoral Fellows

★ Yaron Yeger, 2022–2023

### A6. Service on Thesis or Dissertation Committees

- ★ Anouk Beurgens, "Optimal aftercare flows", MSc thesis, University of Twente, 2024
- ★ Marieke Kootte, "Integrated electrical steady-state power flow simulations on transmission and distribution networks", PhD thesis Delft Technical University, 2024
- ★ Diego Goldsztajn, "Fluid limits and optimal task assignment policies for locally pooled service systems", PhD thesis TU/e, 2023



- ★ Daan Velthuis, “Accelerating iterative methods for the anisotropic radiative transfer equation using Anderson acceleration”, BSc thesis University of Twente, July 2023
- ★ Wendy Olsder, “Optimization models for faster and affordable access to rare disease treatments public”, PhD thesis TU/e, February 2023
- ★ Daan Roordink, “Machine learning, more than mean-learning: On multivariate distributional regression techniques and evaluation metrics”, MSc thesis TU/e, January 2023
- ★ Mark van der Boor, “Hyper-scalable load balancing”, PhD thesis TU/e, 2021
- ★ Ioannis Linardos, “Effects of behaviour adaptation on the spread of infectious disease on networks with community structures”, MSc thesis University of Twente, 2021
- ★ Jori van Falier, “Towards proving a Marchenko-Pastur law for dependent random matrices with decaying covariances”, MSc thesis TU/e, 2021
- ★ Tommaso Nesti, “Stochastic analysis of energy networks”, PhD thesis TU/e, 2020
- ★ Fiona Sloothaak, “Criticality in power networks – a probabilistic approach”, PhD thesis TU/e, 2020
- ★ Abby Berkers, “Local search for a waste collection problem with a multi-day horizon and deterministic time-dependent demands”, MSc thesis TU/e, 2020
- ★ Emil Johannesson, “Incorporating performance indicators in the decision-making process for predictive maintenance”, MSc thesis TU/e, 2020
- ★ Bo Chen, “Heavy tails: asymptotics, algorithms, applications”, PhD thesis TU/e, 2019
- ★ Bart Kamphorst, “Heavy-traffic behaviour of scheduling policies in queues”, PhD thesis TU/e, 2018
- ★ Femke van der Schoot, “Price directed control of bike sharing systems”, BSc thesis TU/e, 2017
- ★ Rosa Maria Siervo, “Short-term planning model for ASML field factory DUV/YS upgrades”, MSc thesis TU/e, 2016
- ★ Shida Xu, “Effects of timing variations on confidence of the aberration simulator”, MSc thesis TU/e, 2011
- ★ Paul Krijger, “De grootste wachtrij in Nederland”, BSc thesis TU/e, 2010
- ★ Mattijn Schutte, “Queuing systems with state-dependent service times”, BSc thesis TU/e, 2008

## B. Courses Taught (past 5 years)

2020 – 2021	Instructor for: Modelling and Analysis of Stochastic Processes
2019 – 2024	Probability and Stochastics (MSc)
2014 – 2023	Healthcare management and modelling (Epidemiology)
2015 – 2023	Stochastic processes
2014 – 2019	Programmeren en Modelleren

## C. Other Teaching Activities

2021 – 2023	Coordinator Modelling Week, TU/e
2020 – 2023	Mentor Industrial and Applied Mathematics Masters Programme
2019	Attendance of the professional development course “Formulating testable learning outcomes”, TEACH programme, Eindhoven University of Technology
2019	Attendance of the professional development course “Assessment analysis”, TEACH programme, Eindhoven University of Technology
2016 – 2018	Coach Bachelor College, Eindhoven University of Technology
Apr. 2016	Workshop on “Plagiarism Prevention”, Eindhoven University of Technology
2014 – 2017	Member of the University Teaching Qualification Assessment Committee
2014	Development of Epidemiology part in the course 1CK110 “Healthcare Management and Modelling”, Eindhoven University of Technology
2010 – 2013	Chair of the Didactics Committee of the department
2010	Obtained the University Teaching Qualification (BKO) diploma
Fall 2008	Attendance of University Teaching Qualification courses: “Supervising Masters Students”, “Supervising PhD students”, “Voice Training”, and of the “Evalueren” DPO training, Eindhoven University of Technology

Feb. 2008	Workshop on “The Assessment Process”, Georgia Institute of Technology
Fall 2001	Attendance of Master’s programme in Mathematics Education at Universität Bielefeld

## VII. Service

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### A. Professional Contributions

#### A1. Editorial Board Memberships

- ★ Guest editor for *Performance Evaluation*, 2023
- ★ Associate editor for *INFOR*, 2022 – present
- ★ Associate editor for *OR Spectrum*, 2021 – present
- ★ Associate editor for *IIE Transactions*, 2017 – present
- ★ Associate editor for *Mathematical Methods of Operations Research*, 2016 – present

#### A2. Proposal Panels and Reviews

- ★ Lorentz-eScience Competition Review Board 2023
- ★ *Lorentz Center*, Scientific Advisory Board (Mathematics), Member: May 2017 – Dec. 2021
- ★ Dutch Research Council (NWO): panelist 2018 – 2020
- ★ Israel Science Foundation (ISF): reviewer 2018
- ★ National Science Foundation USA (NSF): panelist 2014 – 2016

#### A3. Society Board Offices

- ★ Member of the Advocacy Committee of the *European Women in Mathematics*: 2024 – present
- ★ Advisory board member of the Women in Science in Cyprus association: 2021 – present
- ★ Advisory board member of the *Greek Women in Mathematics* association: 2021 – present
- ★ Representative of the Netherlands on the *Committee for Women in Mathematics* of the *International Mathematical Union*: Feb. 2018 – present
- ★ Regional coordinator for the Netherlands in the *European Women in Mathematics*: 2017 – 2023
- ★ *EWM-NL*, Dutch association of women in mathematics, President: Jan. 2017 – Feb. 2022; Member: 2013 – present

#### A4. Activities and Membership

- ★ The Royal Netherlands Society of Engineers (KIVI), Member Dec. 2021 – present
- ★ ATINER, Athens Institute for Education and Research, Member: 2016 – present
- ★ LNMB, Dutch Network on the Mathematics of Operations Research, Member: 2008 – present
- ★ BETA Research School for Operations Management and Logistics, Member: 2008 – present
- ★ WISE, Women in Science Eindhoven, Member: 2008 – present
- ★ INFORMS, Institute for Operations Research and Management Science. Member: 2003 – present
- ★ Representative of the students’ body, Aristotle University of Thessaloniki 2001
- ★ Electoral Committee member for the students’ General Elections, Aristotle University of Thessaloniki 2001

#### A5. Organization and Chairmanship of Technical Sessions, Workshops and Conferences

- ★ Invited session organiser: 11th World Congress in Probability and Statistics
- ★ Chair TPC *IFIP Performance 2023*
- ★ TPC member: *European Society for Engineering Education (SEFI) conference 2023*
- ★ Chair Scientific Committee and member of organisational committee: *58th Dutch National Mathematics Congress 2023*
- ★ Invited session organiser & chair: EURO 2022, Espoo
- ★ TPC member: *International Conference on Data Analytics*, 2021 – 2023
- ★ Invited session organiser & chair: 2021 INFORMS Annual Meeting, Anaheim

- ★ Programme committee member of 1st joint CWM-EWM regional meeting (Europe), 2021
- ★ TPC member: International Conference on Management Science and Engineering Management, Hangzhou, 2021
- ★ TPC member: **IV European Conference on Queueing Theory**, Madrid 2020
- ★ Session organiser& chair: Dutch National Mathematics Congress 2018, 2019, 2022
- ★ Programme Committee of the 54th Dutch National Mathematics Congress 2018
- ★ Invited session organiser: 2017 INFORMS Annual Meeting, Houston
- ★ Programme Committee (Invited session organiser): 19th INFORMS APS Conference 2017, Northwestern University, Evanston
- ★ Plenary session chair, Session chair, & discussant: 42nd conference on “The mathematics of operations research”, LNMB, Lunteren 2017
- ★ TPC member: **ICORES 2014 – 2025**; International Conference on Operations Research and Enterprise Systems
- ★ Session chair: ICORES 2013
- ★ Session chair & discussant: “The mathematics of operations research”, LNMB, Lunteren 2012, 2020
- ★ Organiser of the Beta Conference “Operations Management on the move”, Eindhoven, 2010
- ★ Organiser of the international workshop “Making Healthcare Processes Work”, Eindhoven, 2010
- ★ Host of Women in Science meeting, Eindhoven University of Technology 2009
- ★ Session chair: 14th INFORMS APS Conference 2007
- ★ Session chair: INFORMS Annual Meeting 2006
- ★ Local co-organiser of the EURO-NGI workshop *Rare Events in Communication Networks*, EURANDOM, February 2–5, 2005

#### A6. Technical Journal or Conference Referee Activities

**Journals [39]:** *Annals of Operations Research, Applied and Computational Mathematics, Applied Mathematical Modelling, Asia-Pacific Journal of Operational Research, Discrete Event Dynamic Systems, Encyclopedia of Operations Research and Management Science, European Journal of Operational Research, 4OR, IEEE Transactions on Automatic Control, IEEE Transactions on Automation Science and Engineering, IEEE Transactions on Control Systems Technology, Insurance: Mathematics and Economics, IISE Transactions, INFOR, Journal of Applied Mathematics and Computing, Journal of Applied Probability, Journal of Optimization Theory and Applications, Journal of the American Statistical Association, Journal of the Operational Research Society, Management Science, Manufacturing and Service Operations Management, Mathematical Reviews, Mathematics and Computers in Simulation, Mathematics of Operations Research, Naval Research Logistics, Operations Research, Operations Research for Health Care, Operations Research Letters, OR Spectrum, Performance Evaluation, Probability in the Engineering and Informational Sciences, Production and Operations Management, Queueing Systems, Statistica Neerlandica, Statistics and Probability Letters, Stochastic Models, The Indian Journal of Statistics, Transactions on Modeling and Computer Simulation, Transportation Research Part D: Transport and Environment*

**Conferences [9]:** 63rd IEEE Conference on Decision and Control 2024, IFIP Performance 2023, European Society for Engineering Education (SEFI) conference 2023, Data Analytics 2021–2024, International Conference on Operations Research and Enterprise Systems (ICORES) 2014 – present, International Multi-Conference on Engineering and Technological Innovation: IMETI 2009–2014, 4th International Conference on Queueing Theory and Network Applications (QTNA) 2009, 2008 IEEE International Conference on Robotics and Automation, ValueTools 2008

#### A7. Other Involvement

- ★ Book Proposal Reviewer for Discrete Mathematics Series, Elsevier, 2023
- ★ Working Group Master’s curriculum, School of Applied Mathematical and Physics Science, National Technical University of Athens, 2022
- ★ Panelist Insight Out 2021, <https://www.insightoutevent.nl/>
- ★ Dutch Royal Mathematical Society PhD prize jury member 2020
- ★ Assisting the organisation of the European Girls Mathematics Olympiad 2020

- ★ Advisory Appointment Committee, Department of Applied Mathematics, University of Twente, 2016

## B. Public and Community Service

- ★ Mentor at the mentor network of the University of Twente
- ★ Mentor at the “**Mentor Network**” of EWM-NL
- ★ Volunteer and role model at VHTO, the Dutch national expert organisation on girls/women and science/technology, working on increasing the involvement of women in STEM education and employment.

## C. Institute Committee Service

- ★ Midterm Review Committee of EEMCS, University of Twente, 2024
- ★ DEI Sounding Board EEMCS, University of Twente, April 2023 – present
- ★ Judging Panel EEMCS Graduation Award 2023, University of Twente
- ★ Assoc. chair SPOR cluster, M&CS, TU/e, January 2022 – December 2023
- ★ Faculty grands support team, University of Twente, 2022
- ★ Study+ Ambassador of M&CS, TU/e, 2021 – 2024
- ★ Diversity and Inclusion working group, University of Twente, 2021
- ★ Organiser MSc Colloquium, University of Twente, 2020 – present
- ★ Member Interdepartmental Committee (IFC) Basic Sciences, 2017 – 2024
- ★ Chair Midterm Review Committee of M&CS, TU/e, 2017
- ★ Member of the Advisory Appointment Committee of M&CS, TU/e, 2014, 2016, 2017
- ★ Member of the University Teaching Qualification Assessment (UTQ / BKO) Committee, TU/e, April 2014 – Dec. 2017
- ★ TU/e and Math & CS Ambassador, TU/e, 2012 – present
- ★ TU/e coordinator of the “Health” Research theme of the 3TU.AMI, 2012 – 2013
- ★ Chair of the Didactics Committee, M&CS, TU/e, Jan. 2010 – May 2013

## VIII. Honours and Awards

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### A. Honours and Awards in Research

- ★ Hypatia Professorship, University of Twente, 2024
- ★ 2017 AMSI-ANZIAM Lecturer, Australian Mathematical Sciences Institute, 2017
- ★ Third prize in the 8th Conference in Actuarial Science & Finance, Samos, 2014
- ★ Marcel Neuts Student Paper Award, 8th Int'l Conference on Matrix-Analytic Methods, 2014
- ★ Best Paper Award, International Conference on Operations Research and Enterprise Systems, 2013
- ★ Finalist of the Greek Mathematical Olympiad “Archimedes” in 1996 and 1998
- ★ National Physics Competition “V. Xanthopoulos”. First place: 1996 and 1997; second place: 1998

### B. Honours and Awards in Education

- ★ Excellent Course Evaluation 2020/2021, TU/e
- ★ TU/e's Women Wall of Fame, 2017
- ★ Thank a Teacher certificate for excellence in teaching, Georgia Tech 2007, 2008
- ★ Summa cum laude BSc (ranked #2 in the department and degree grade 9.5/10), Aristotle University of Thessaloniki 2002
- ★ Excellence in undergraduate studies award, Greek State Scholarships Foundation, 1999 – 2001
- ★ 1st place in admittance exams award, Greek State Scholarships Foundation, 1998
- ★ Best student award, Greek Ministry of Education 1993 – 1998

## IX. Outreach and Skills

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### A. Outreach

- ★ Interview: Matemáticas en el mundo. <https://redmujeresmaticasecu.github.io/noticias>
- ★ Press: UPS Smith Prize Winner Reprise: Learning by Doing at the Eindhoven University of Technology. *ORMS*, 17 October 2022
- ★ Panellist: Solidarity in Science. WISE Network annual meeting, 10 October 2022
- ★ Interview: We are taking decisions based on bad numbers. *Cursor*, 8 April 2020
- ★ Lecture: Investment in Equality in Science. TINT & WISE Network event “Celebration of Women in Science”, 11 February 2020
- ★ Video: Faces of Women in Mathematics. Participation to the IMU / CWM project. (*Video*)
- ★ Interview: Why the amount of queuing time depends on mathematics. *Medium*, 8 March 2017
- ★ Interview: Students gain most from maths-interests balance. *The Australian*, 22 February 2017
- ★ Several outreach activities in my role as the president of EWM-NL. E.g.: promoting the exhibition “Women of Mathematics Throughout Europe, a gallery of portraits” throughout Dutch universities; organising sessions at NMC on career tips for young professional mathematicians; policy suggestions at NWO, mathematics departments, and Dutch universities; supporting international activities for women in mathematics.
- ★ Interview: Een snelle knipbeurt of de schoonheid van een vergelijking. *Cursor*, 7 September 2006

### B. Language skills

Dutch	fluent, Nederlands als tweede taal – Dutch Ministry of Education
English	fluent, Certificate of Proficiency in English – Cambridge University
German	very good, Mittelstufe – Goethe Institut
Greek	native speaker
Italian	very good, Diploma – Istituto Italiano di Cultura, Celi 3 – Università Perugia
Spanish	fluent, Superior – Ministro de Educación y Cultura del Reino de España