Curriculum Vitae

prof. dr. Richard J. Boucherie

Personal

Name	Boucherie, Richardus Johannes (Richard)
Date of birth	16 september 1964, Oost- en West-Souburg, the Netherlands
Nationality	Dutch
Marital status	Widower (2003)
	Father of 4 children (1990, 1992, 1993, 1996)
Home address	Escudolaan 36
	1060 ST Amsterdam, the Netherlands
Work address	Stochastic Operations Research
	Department of Applied Mathematics
	Faculty of Electrical Engineering, Mathematics and Computer Science
	University of Twente
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URL	www.utwente.nl/ewi/sor/about/staff/boucherie/
Profile	Google scholar profile

Position

Since 2006	Full Professor (tenured)
	Head of Stochastic Operations Research
	University of Twente
	www.utwente.nl/ewi/sor/
Since 2008	Chair of Center for Healthcare Operations Improvement and Research
	University of Twente
	www.utwente.nl/choir/
Since 2014	Rhythm B.V.
	Private enterprise, co-founder, owner
	www.rhythm.nl
Since 2014	CHOIR Innovation Lab B.V.
	Private enterprise, co-founder, owner
Since 2014	Boucherie Consulting B.V.
	Private enterprise, founder, owner

Research interests

Mathematics:	probability theory; queueing; Petri nets;
	stochastic operations research; performance analysis.
Applications:	healthcare: logistics;
	(tele)communications: ad-hoc, sensor, and wireless networks;
	traffic, transport and manufacturing systems.

Duties

since 2014	Chair of PDEng programme Zorglogistiek, University of Twente
since 2014	NWO STAR cluster – member management team
since 2013	Head of Graduate Programme Industrial Engineering and Operations Research Twente Graduate School
since 2007	Beta ambassador

Former positions

2003 – 2006	Full professor (tenured) Chair: Stochastic Processes in Telecommunications and Logistics Department of Applied Mathematics, Faculty of Electrical Engineering, Mathematics and Computer Science, University of Twente
2000 – 2003	Associate professor (tenured) Department of Applied Mathematics, Faculty of Electrical Engineering, Mathematics and Computer Science, University of Twente
1999 – 2000	Senior researcher Department Kwantitatieve Economie, Faculty of Economics and Econometrics, Universiteit van Amsterdam
1994 – 1999	Researcher Department Kwantitatieve Economie, Faculty of Economics and Econometrics, Universiteit van Amsterdam
1994	Post doc (6 months) projet MISTRAL Institut National de Recherche en Informatique et en Automatique (INRIA) Unité de Recherche INRIA-Sophia Antipolis, Sophia-Antipolis, France
1993 – 1994	Post doc (9 months) Department Operations Research and Statistics Center for Mathematics and Computer Science, Amsterdam
1992 – 1993	Post doc (9 months) projet MEVAL/MISTRAL Institut National de Recherche en Informatique et en Automatique (INRIA) Unité de Recherche INRIA-Sophia Antipolis, Sophia-Antipolis, France

Consultancy

2016	Roosterefficiëntie ACC en APP voor LVNL
2014 – 2015	Adviescommissie Stichting de Thuiskopie

Education

2014 – 2015	Certified Practitioner of Neuro Linguistic Programming Mind Academy NLP Institute
2011	UT Leiderschap Ontwikkeling Programma Krauthammer
2005 – 2006	Leergang Academisch Leiderschap Eva Wiltingh BV
2000 – 2002	Teaching Certificate Universiteit Twente DUIT: Didactisch Universitair Inwerk Traject
1988 – 1992	Ph.D. in Econometrics Vrije Universiteit Amsterdam

1988 – 1992   Ph.D. in Econometrics
Vrije Universiteit Amsterdam

Thesis:	Product-form in queueing networks
promotores:	Prof.dr. N.M. van Dijk and Prof.dr. H.C. Tijms
graduation:	21 May 1992

1988 – 1992   Postgraduate teaching programme certificate of the LNMB

1988 – 1992   Graduate course programme of the Tinbergen Instituut

1982 – 1988   M.Sc. in Mathematics
Rijksuniversiteit Leiden

major:	Stochastic Operations Research
Thesis:	Clusters
supervisor:	Prof.dr. A. Hordijk
graduation:	27 May 1988

1982 – 1988   M.Sc. in Theoretical Physics
Rijksuniversiteit Leiden

major:	Statistical Physics
Thesis:	Clusters
supervisor:	Prof.dr. J.M.J. van Leeuwen
graduation:	31 May 1988

1976 – 1982   Ongedeeld VWO
Rijksscholengemeenschap Scheldemond, Vlissingen
Dutch, English, Mathematics, Physics, Chemistry, Economics

1970 – 1976   Primary school
Van Dale school, Oost-Souburg

Founding of communities, research centers, programmes, companies

2014   Founder of the PDEng programme Zorglogistiek, University of Twente

2014   Rhythm B.V.
co-founder of private enterprise

	www.rhythm.nl
2014	CHOIR Innovation Lab B.V. co-founder of private enterprise
2014	Boucherie Consulting B.V. founder of private enterprise
2009	3TU.AMI – Applied Mathematics Institute co-founder of mathematics institute of the three Dutch technical universities ami.3tu.nl
2009	Twente Graduate School programme Industrial Engineering founder of graduate school programme Industrial Engineering www.utwente.nl/tgs/programmes
2008	CHOIR – Center for Healthcare Operations Improvement and Research co-founder of University of Twente health care logistics center www.utwente.nl/choir
2006	e-Quality – Center of excellence quality of service in ICT systems co-founder of national initiative of University of Twente, TNO-ICT, CWI [and later TU Eindhoven, TU Delft] to combine forces in research on Quality of Service in ICT systems www.equality-ict.nl

Former duties

2014 – 2016	Vice-dean of Faculty of Electrical Engineering, Mathematics and Computer Science University of Twente
2013 – 2016	Head of Department of Applied Mathematics (0.4 fte) Faculty of Electrical Engineering, Mathematics and Computer Science University of Twente
2013 – 2014	Coordinator health care of 3TU.AMI
2012 – 2016	Ambassadeursnetwerk "Vrouwelijk talent naar de top"
2010 – 2013	Head of Graduate Programme Industrial Engineering Twente Graduate School
2008 – 2009	Head of Department (0.2 fte) Operational Methods for Production and Logistics School of Management and Governance University of Twente
2007 – 2014	Coordinator CTIT SRO Industrial Engineering and ICT University of Twente
2007 – 2014	CTIT management team
2006 – 2015	LNMB – member of executive board

2006 – 2009	EURANDOM – scientific advisor	
2003 – 2014	Beta – member of executive board	

Memberships

With election	Beta LNMB
Without election	INFORMS NGB VVS

Awards

2012	Canadian Operations Research Society's Practice Prize 2012
2012	ORTEC excellence in advanced planning award 2012
2008	Best paper award – Analytical and Stochastic Modelling Techniques and Applications (ASMTA) 2008
1993	Best paper award – Petri Nets and Performance Models (PNPM) 1993
1982	Dr. J. Spuymanprijs - beste afstudeerder R.S.G. Scheldemond

Ph.D. students (*first advisor*)

2017	S. van Brummelen	Waiting time and Personnel Capacity Optimization
	G. Leeftink	rapid diagnostics
	N.J. Borgman	Managing urgent care in hospitals 23 june 2017 *prof.dr.ir E.W. Hans*, prof.dr R.J. Boucherie, dr.ir I.M.H. Vliegen
	T.J.M. Coenen	Modeling the impact of interference on wireless ad hoc network performance 9 June 2017 *prof.dr R.J. Boucherie*, prof.dr J.L. van den Berg, dr.ir. M. de Graaf
2016	W.L.F. van der Hoorn	Asymptotic analysis of network structures: degree-degree correlations and directed paths 7 oktober 2016 prof.dr. R.J. Boucherie, *dr. N. Litvak* **cum laude**
	N.M. van de Vrugt	Efficient healthcare logistics with a human touch 1 July 2016 *prof.dr R.J. Boucherie*

2015	M.A. Mitici	Performance analysis of data retrieval in wireless sensor networks 18 November 2015 prof.dr R.J. Boucherie, dr.ir J. Goseling, *dr.ir M. de Graaf*
	A. Braaksma	Timely and Efficient planning of TReatments through Intelligent Scheduling 25 September 2015 *prof.dr R.J. Boucherie*, prof.dr P.J.M. Bakker
	N. Baër	Queueing and Traffic 13 June 2015 prof.dr. R.J. Boucherie, *dr. J.C.W. van Ommeren*
	Y. Chen	Random Walks in the Quarter-Plane: Invariant Measures and Performance Bounds 22 May 2015 prof.dr. R.J. Boucherie, *dr.ir. J. Goseling*
2013	D. Reijsbergen	Efficient Simulation Techniques for Stochastic Model Checking 6 December 2013 prof.dr.ir B. Haverkort, prof.dr R.J. Boucherie, *dr.ir W.R.W. Scheinhardt, dr.ir P.T. de Boer*
	E. van der Veen	Personnel Preferences in Personnel Planning and Scheduling 22 November 2013 *prof.dr R.J. Boucherie*, prof.dr.ir E.W. Hans, dr. B. Veltman
	P. Hulshof	Integrated Decision Making in Healthcare An Operations Research and Management Science Perspective 21 November 2013 *prof.dr.ir E.W. Hans*, prof.dr R.J. Boucherie
	A.I. Endrayanto	Optimal Resource Allocation in Downlink CDMA Wireless Networks 30 May 2013 *prof.dr R.J. Boucherie*, prof.dr J.L. van den Berg, dr. A.F. Gabor
2012	N. Kortbeek	Quality-driven Efficiency in Healthcare 23 november 2012 *prof.dr R.J. Boucherie*, prof.dr P.J.M. Bakker **cum laude**
	M.E. Zonderland	Curing the queue 27 January 2012 *prof.dr R.J. Boucherie*, dr F. Boer, dr N. Litvak
2011	P.T. Vanberkel	Interacting Hospital Departments and Uncertain Patient Flows: Theoretical Models and Applications, 27 May 2011 *prof.dr R.J. Boucherie*, dr.ir E.W. Hans, prof.dr J.L. Hurink
2009	D. Miretskiy	Queueing networks: rare events and fast simulations, 12 November 2009

		dr.ir W.R.W. Scheinhardt, prof.dr R.J. Boucherie
	R. de Haan	Queueing Models for Mobile Ad Hoc Networks, 4 June 2009 *prof.dr R.J. Boucherie*, dr J.C.W. van Ommeren
	Y. Volkovich	Stochastic Analysis of Web Page Ranking, 24 April 2009 *dr N. Litvak*, prof.dr R.J. Boucherie
2007	S.K. Cheung	Processor-sharing queues and resource sharing in wireless LANs, 1 June 2007. *prof.dr R.J. Boucherie*, prof.dr J.L. van den Berg
2003	R. Litjens	Capacity allocation in Wireless Communication Networks, 12 September 2003. *dr R.J. Boucherie*, prof.dr W.H.M. Zijm

P.D. Eng. students

2019	M. Hatting	SMK multiappointment planning

Teaching (current courses):

Since 2016	Mathematics of Operations Research Pre-master course for Mathematics of Operations Research based on: H.C. Tijms, Operations Research
Since 2016	Stochastic Models for Operations Management M.Sc course Mechanical Engineering based on: W.L. Winston, Operations Research, Applications and Algorithms, Brooks / Cole, 2004
Since 2015	Applied Mathematics, Industrial Engineering, Civil Engineering Bachelor Module 8 B.Sc. course in the programme Applied Mathematics, Industrial Engineering, Civil Engineering based on: W.L. Winston, Operations Research, Applications and Algorithms, Brooks / Cole, 2004
Since 2012	Multi-class queues and stochastic networks Ph.D. course in the LNMB programme based on: R.D. Nelson, Probability, stochastic processes, and queueing theory, corrected 3rd printing, Springer, 2000 F.P. Kelly, Reversibility and Stochastic Networks, Wiley, 1979 R.W. Wolff, Stochastic Modeling and the Theory of Queues, Prentice Hall, 1989 R.J. Boucherie, N.M. van Dijk (editors), Queueing Networks - A Fundamental Approach, International Series in Operations Research and Management Science Vol 154, Springer, 2011
since 2007	Operations research methods (191580900) Pre-master course in the programme Industrial Engineering

based on: W.L. Winston, Operations Research, Applications and Algorithms, Brooks / Cole, 2004

since 2006   Networks of Queues (153194)
M.Sc. course in the programme Applied Mathematics
based on: F.P. Kelly, Reversibility and Stochastic Networks, Wiley, 1979
and R.D. Nelson, Probability, stochastic processes, and queueing theory,
corrected 3rd printing, Springer, 2000.