Staff optimization for time-dependent acute patient flow
Research output: Contribution to journal › Journal article – Annual report year: 2019 › Research › peer-review

Application of data clustering to railway delay pattern recognition
Research output: Contribution to journal › Journal article – Annual report year: 2018 › Research › peer-review

Assessing spatial correlations of sea surges around Copenhagen
Research output: Chapter in Book/Report/Conference proceeding › Conference abstract in proceedings – Annual report year: 2018 › Research › peer-review

Behavior of passenger train delays and estimation of network effects
Harrod, S., Cerreto, F., Nielsen, O. A., Pournaras, G. & Nielsen, B. F., 2018
Research output: Non-textual form › Sound/Visual production (digital) – Annual report year: 2019 › Research

Dimensioning a Product Development Project Portfolio Using a Closed Queueing Network
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2019 › Research › peer-review

Distribution Fitting for Very Large Railway Delay Data Sets with Discrete Values
Research output: Contribution to conference › Paper – Annual report year: 2018 › Research › peer-review

Multi-Parameterised Matchmaking: A Framework
Christiansen, A. H., Gensby, E. & Nielsen, B. F., 2018, Proceedings of 2018 IEEE Conference on Computational Intelligence and Games. IEEE, 4 p. (2018 ieee Conference on Computational Intelligence and Games (cig)).
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2018 › Research › peer-review

Parisian types of ruin probabilities for a class of dependent risk-reserve processes
Research output: Contribution to journal › Journal article – Annual report year: 2018 › Research › peer-review

Passenger arrival and waiting time distributions dependent on train service frequency and station characteristics: A smart card data analysis
Research output: Contribution to journal › Journal article – Annual report year: 2018 › Research › peer-review
Maximizing entropy over Markov processes
Research output: Contribution to journal › Conference article – Annual report year: 2014 › Research › peer-review

Obituary: Marcel F. Neuts 1935-2014
Research output: Contribution to journal › Journal article – Annual report year: 2014 › Communication

On the use of functional calculus for phase-type and related distributions
Research output: Book/Report › Report – Annual report year: 2014 › Research

Estimating passenger numbers in trains using existing weighing capabilities
Research output: Contribution to journal › Journal article – Annual report year: 2013 › Research › peer-review

Matrix Analytic Methods in Applied Probability with a View towards Engineering Applications
Research output: Book/Report › Doctoral thesis – Annual report year: 2013 › Research

Maximizing Entropy over Markov Processes
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2013 › Research › peer-review

Analysis of Queues with Rational Arrival Process Components - A General Approach
Research output: Contribution to journal › Conference abstract in journal – Annual report year: 2012 › Research › peer-review

An overview of multivariate gamma distributions as seen from a (multivariate) matrix exponential perspective
Research output: Contribution to journal › Conference abstract in journal – Annual report year: 2012 › Research › peer-review

Bilateral matrix-exponential distributions
Research output: Contribution to journal › Conference abstract in journal – Annual report year: 2012 › Research › peer-review

First In Line Waiting Times as a Tool for Analysing Queueing Systems
Research output: Contribution to journal › Journal article – Annual report year: 2012 › Research › peer-review

LBTool: A stochastic toolkit for leave-based key updates
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2012 › Research › peer-review
A Markovian approach for modeling packet traffic with long range dependence  
Research output: Contribution to journal › Journal article – Annual report year: 1998 › Research › peer-review

On the implications of certain random permutations of inter-arrival times or counts in a point process  
Research output: Book/Report › Report – Annual report year: 1998 › Research › peer-review

On the significance of arrival process descriptions in packet traffic  
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 1998 › Research

On the significance of arrival process descriptors in packet traffic  
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 1998 › Research › peer-review

On the statistical implications of certain random permutations of inter-arrival times or counts in a point process.  
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 1998 › Research › peer-review

A Computational Framework for a Quasi Birth and Death Process A Computational Framework for a Quasi Birth and Death Process with a Continuous Phase Variable  
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 1997 › Research › peer-review

A Computational Framework for a Quasi Birth and Death Process with a Continous Phase Variable.  
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 1997 › Research › peer-review

An application of superpositions of two-state Markovian sources to the modelling of self-similar behaviour  
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 1997 › Research › peer-review

On the use of second order descriptors to caracterize MAPs  
Research output: Book/Report › Report – Annual report year: 1997 › Research › peer-review

On the use of second order descriptors to characterize MAP  
Research output: Book/Report › Report – Annual report year: 1997 › Research › peer-review

An application of superpositions of two-state Markovian sources to the modelling of self-similar behaviour.  
Research output: Book/Report › Report – Annual report year: 1996 › Research › peer-review

Discrete-Time Analysis of a Finite Queue with Rework  
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 1996 › Research › peer-review
Modelling a Buffer System as an M/PH/1/N
Møller, D. M. & Nielsen, B. F., 1994, IMM.
Research output: Book/Report › Report – Annual report year: 1994 › Research › peer-review

Statistisk analyse af arbejdsbelastning på en fædegang
Andersen, A. T., Grove, N. U. & Nielsen, B. F., 1994, IMM.
Research output: Book/Report › Report – Annual report year: 1994 › Research › peer-review

Using Program Package NSPCG to Analyze the Trunk Reservation Service Protection Method
Research output: Contribution to journal › Journal article – Annual report year: 1994 › Research › peer-review

Analysis of the Telecommunication Demands in a Large Geographically Dispersed Company
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 1993 › Research › peer-review

A transient queueing study of delay during changeover in the Message Transfer Part MTP
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 1993 › Research › peer-review

Evaluation of a method for online control of the metering system in the analogue telephone network
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 1993 › Research › peer-review

Filtering clinically significant hypercalcaemia from non-significant hypercalcaemia at the laboratory level
Research output: Contribution to journal › Journal article – Annual report year: 1993 › Research › peer-review

Modelling the End-to-End Message Transfer Distribution in the ATCS Communication System
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 1993 › Research › peer-review

A Phase Type Model for the Trunk Reservation Protection Method
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 1992 › Research › peer-review

Traffic models of the Message Transfer Part MTP
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 1992 › Research › peer-review

A Combined Petri-Net and Markov Chain Analysis of an FMS
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 1991 › Research › peer-review

Alternative diagnostic hypercalcaemia discriminant functions varied on incomplete datasets
Does Quality Control Work Between Local Hospitals?
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 1991 › Research › peer-review

The Use of Phase Type Distributions for Modelling Packet-Switched Traffic
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 1991 › Research › peer-review

Discriminant functions in different geographical areas
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 1990 › Research › peer-review

Handling incomplete data sets with statistical techniques
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 1990 › Research › peer-review

Investigation of the transferability of clinical chemical data
Frølich, A. & Nielsen, B. F., 1990, Proceedings of the 8th Nordic Meeting on Medical and Biological Engineering.
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 1990 › Research › peer-review

Respective roles of PTH and substrate for the l-hydroxylation of vitamin D in primary hyperparathyroidism PHP
Research output: Contribution to journal › Journal article – Annual report year: 1990 › Research › peer-review

The Analysis of a Manufacturing Unit by Sparse Matrix Techniques
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 1990 › Research › peer-review

Anvendelse af kanetværk til produktionstyring
Nielsen, B. F., 1989, IMSOR.
Research output: Book/Report › Report – Annual report year: 1989 › Research › peer-review

A Tool for Performance Analysis of Product Form Queueing Networks - ANQUEUE
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 1989 › Research › peer-review

Estimation of traffic models for a packet-switched network
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 1989 › Research › peer-review
The analysis of service protection methods in service integrated networks by large scale Markov processes
Research output: Chapter in Book/Report/Conference proceeding – Annual report year: 1989
Research › peer-review

The exact evaluation of the \((M/D/1/n)\)
Research output: Chapter in Book/Report/Conference proceeding – Annual report year: 1989
Research › peer-review

Modelling of Multiple Access Systems with Phase Type Distributions
Nielsen, B. F., May 1988
Research output: Book/Report – Annual report year: 1988
Research › peer-review

Service Protection by Time-in
Research output: Chapter in Book/Report/Conference proceeding – Annual report year: 1988
Research › peer-review

The exact evaluation of the \((M/D/1/n)\)
Iversen, V. B., Kragh, A. L. & Nielsen, B. F., 1988, IMSOR.
Research output: Book/Report – Annual report year: 1988
Research › peer-review

A Service Protection Model
Research output: Chapter in Book/Report/Conference proceeding – Annual report year: 1987
Research › peer-review

Respective roles of PTH and substrate for the \(\text{I-hydroxylation of vitamin D}\) in primary hyperparathyroidism PHP
Research output: Chapter in Book/Report/Conference proceeding – Annual report year: 1987
Research › peer-review

Comments to a Paper by V. Giorno, C. Negri and A. G. Nobile
Research output: Contribution to journal – Annual report year: 1986
Research › peer-review

Estimation af parameterværdier i Cox-fordelelser til trafikanalyse
Research output: Chapter in Book/Report/Conference proceeding – Annual report year: 1986
Research › peer-review

Coxfordelser egenskaber og anvendelser
Nielsen, B. F., 1985, IMSOR.
Research output: Book/Report – Annual report year: 1985
Research › peer-review

Some Properties of Coxian Distributions with Applications
Research output: Chapter in Book/Report/Conference proceeding – Annual report year: 1985
Research › peer-review

Projects:
Stochastic Financial Models based on Matrix-Analytic Methods
Larsen, N. S., Nielsen, B. F. & Kulahci, M.
15/10/2018 → 14/10/2021
Project: PhD

Stochastic Models for Predictive Maintenance
Andersen, J. F., Nielsen, B. F. & Kulahci, M.
Technical University of Denmark
01/01/2018 → 30/06/2021
Project: PhD

Risk assessment with matrix-analytic methods
Campillo Navarro, A., Nielsen, B. F., Bladt, M., Stockmarr, A., Hobolth, A. & Lillo, R. E.
Technical University of Denmark
15/07/2015 → 13/03/2019
Project: PhD

Matrix-exponential methods in finance, risk and queuing theory
Peralta Gutierrez, O., Nielsen, B. F., Bladt, M., Thygesen, U. H., Breuer, L. & Hobolth, A.
Forskningsrådsstipendium
01/10/2015 → 13/03/2019
Project: PhD

Bayesian Modelling for Multi-Agent control
Quinonero, J., Hansen, L. K., Rasmussen, C. E., Nielsen, B. F., Andersen, J. D. & Williams, C. K. I.
Eksternt EU-finansieret
01/04/2001 → 01/10/2004
Project: PhD

Real Time Decision Support in the Face of Evolving Natural Hazards
Anders, A., Nishijima, K., Faber, M. H., Nielsen, B. F., Chatzi, E. & Kroon, I. B.
Ansat eksternt
01/03/2011 → 28/04/2014
Project: PhD

Optimal foraging theory applied to simple models of patchy environments
Forskningsrådsfinansiering
15/03/2001 → 08/02/2007
Project: PhD

Evaluering og dimensionering af signalingssystemer for digitale kommunikationssystemer
Andersen, A. T. & Nielsen, B. F.
Gammel ordning u/skema-SU
01/11/1992 → 13/02/1996
Project: PhD

Call Center Capacity Planning
DTU-lønnet stipendie
01/08/2006 → 31/03/2010
Project: PhD

Design of computer experiments
Dehlendorff, C., Andersen, K. K., Kulahci, M., Nielsen, B. F., Lophaven, S. N. & Tyssedal, J.
DTU-lønnet stipendie
01/03/2007 → 08/12/2010
Project: PhD
Applications of and statistical inference for Multivariate Matrix Exponential Distributions
Esparza, L. J. R., Nielsen, B. F., Bladt, M., Thygesen, U. H., Casale, G. & Telek, M.
DTU-lønnet stipendie
15/08/2007 → 30/03/2011
Project: PhD

Performance of Multi-Service Mobile Networks
Benetis, V., Iversen, V. B., Dittmann, L., Nielsen, B. F., Emstad, P. J. & Giner, V. C.
DTU-lønnet stipendie
01/10/2003 → 29/10/2007
Project: PhD

Probabilistic Networks: Diagnostic Decision Support Systems
Andersen, M. N., Winther, O., Hansen, L. K., Nielsen, B. F., Gerds, T. A. & Heskes, T.
DTU-lønnet stipendie
15/05/2003 → 05/11/2007
Project: PhD

Estimationsteori for stokastiske differentialligninger
Nolsøe, K., Madsen, H., Kessler, M., Nielsen, B. F., Rydén, T. & Jørgensen, B.
DTU-lønnet stipendie
01/10/2002 → 15/01/2007
Project: PhD

Identification of Ecological Thresholds of Sustaniability in Marine Ecosystems
Møller, J. K., Madsen, H., Carstensen, N. J., Nielsen, B. F., Ditlevsen, S. & Guttorp, P.
1/3 DTU-stip, 2/3 FUR/andet
01/08/2006 → 25/05/2011
Project: PhD

Logics and models for stochastic analysis of information systems
Zeng, K., Nielsen, B. F., Nielson, F., Zhang, L., Buchholz, P. & Hillston, J.
1/3 FUU, 1/3 inst 1/3 Andet
01/11/2009 → 07/03/2013
Project: PhD

Refinement and application of the method of successive calculations in transport project evaluations
Meisch, D., Nielsen, B. F., Leleur, S., Van Dijk, N. M., Conradsen, K., Telek, M. & Van Dijk, N. M.
1/3 FUU, 1/3 inst 1/3 Andet
01/06/2010 → 02/09/2014
Project: PhD

Methods for analysis and dimensioning of heterogenous telecommunication networks
Møller, D. M. & Nielsen, B. F.
Samarbejdsaftale-Finan-SU
01/02/1992 → 24/04/1995
Project: PhD

Queueing and Optimization Models for Hospital Patient Flow
Samfinansierede - Virksomhed
01/07/2015 → 08/11/2018
Project: PhD

TDM prestudy
Nielsen, B. F., Thyregod, P. & Larsen, P. B.
Hypercalcaemia Discriminant Functions  
Nielsen, B. F., Conradsen, K., Frølich, A., McNair, P., Transbøl, I. & Nielsen, J.  
01/10/1985 → …  
Project: Research  

Research visit at Bell Communications Research  
Nielsen, B. F. & Ramaswami, V.  
Ukendt  
01/09/1995 → 31/08/1996  
Project: Research  

Activities:  

Reexam in 02405 Probability Theory  
Bo Friis Nielsen (Internal examiner), Anders Stockmarr (Internal examiner)  
7 Feb 2019  
Activity: Examinations and supervision › Internal examination  

Risk assessment of benzo[a]pyrene in heat-processed meat in Denmark: A probabilistic approach  
Stylianos Georgiadis (Guest lecturer), Lea Sletting Jakobsen (Guest lecturer), Bo Friis Nielsen (Guest lecturer), Maarten Nauta (Guest lecturer), Sara Monteiro Pires (Guest lecturer)  
4 Dec 2018  
Activity: Talks and presentations › Conference presentations  

Burden of disease of barbecued meat - who's at risk?  
Lea Sletting Jakobsen (Guest lecturer), Stylianos Georgiadis (Guest lecturer), Bo Friis Nielsen (Guest lecturer), Anders Stockmarr (Guest lecturer), Elena Boriani (Guest lecturer), Lene Duedahl-Olesen (Guest lecturer), Tine Hald (Guest lecturer), Sara Monteiro Pires (Guest lecturer)  
31 Mar 2017  
Activity: Talks and presentations › Conference presentations