

November 5, 2008.

Curriculum vitae for Bo Friis Nielsen

Education

Master of Science in Electrical Engineering from DTU (Technical University of Denmark), IMSOR (Institute of Mathematical Statistics and Operations Research) September 1984.

Ph.D. 1988 from IMSOR.

Current position

From 1/1-2000 associate professor at Informatics and Mathematical Modelling - IMM - Technical University of Denmark.

Previous positions

1/9/1984-31/5/1987 Ph.D. student under a grant from DTU.

1/6/1987-31/5/88 Employed on the project: "Application of Queueing Networks for Production Planning", under grant no. M-86-3963 from the Danish Technical Research Council (STVF).

1/1/88-30/4/92 Assistant professor at IMSOR.

1/9-1992 31/5-1994 external associate professor at the Institute of Theoretical Statistics at the Copenhagen Business School.

1/5/92-31/8/93 Associate professor at IMSOR.

1/9/93-31/12/99 associate professor at The Institute of Mathematical Modelling - IMM (including the former IMSOR).

Research positions

1/9/95-31/8/96 visiting researcher at Bell Communications Research (Bellcore), New Jersey, USA.

2/5/99-6/5/99 visiting researcher at Telecommunications Research Centre (TRC) University of Adelaide, Adelaide, Australia.

1/9/02-31/8/03 visiting researcher at Department of Statistics, University California, Berkeley.

Academic duties

Editor of Stochastic Models (Marcel Dekker).

Board member of Danish Simulation Society (Dansk Simuleringsforening).

1/3/2001- elected member of the senate (DTU) Referee for several international journals and conferences. External evaluator of research proposals for the Swedish Foundation for Strategic Research fall 2001.

Member of examination committee for Ph.D. candidate Marie Ange Remiche, Université Libre de Bruxelles, 1999.

Examination committee for Jacob Riishede Møller, Lund University 2000.

Examination committee for Fredrik Nordström, Lund University 2004.

Examination committee for Joaquin Quinonero Candela, DTU 2004.

Examination committee for Kim Nølse, DTU 2007.

Examination committee for Morten Nonboe Andersen, DTU 2007.

Courses taught at IMSOR/IMM

Linear Regression January 1989,

Tele- and Datatraffic Theory February-June 1989,

Elementary Statistics September-December 1990, 1993 and 1996,

Elementary Statistics February-May 2002,

Probability September-December 2003, 2004, 2005, 2006, and 2008, February-May 2004, 2005, 2006, 2007, and 2008.

Stochastic Processes September-December 1991, 1992, 1994, 1997, 1998, 1999, 2000, 2001, 2003, 2004, and 2008.

Stochastic Simulation June 1993, 1994, 1997, 1998, 1999, 2000, 2001, 2002 and 2004.

Supervision of 30 master students in the period 1988-2008.

Supervision of 4 Ph.D. students in the period 1991-2006.

Supervision of Ph.D. student Thomas Bang Nielsen from August 2006.

Supervision of Ph.D. student Luz Judith Rodriguez Esparza from August 2007.

Research Projects

Participation in European Commission projects COST-214, COST-224, COST-242, COST-257, and COST-279.

Fra 1/4/91-31/12/91 participation in the KTAS project COMWORK, on simple end-to-end models in heterogeneous networks.

Supervisor for the project diagnostic strategies for hypercalcaemia. The study is performed by Anne Frølich, MD, Bispebjerg Hospital.

1/10/91-1/1/95 supervisor for Ph.D. student Dorte Møller. The title of the study is "Methods for Analysis and Design of Heterogeneous Telecommunication Networks".

The study has been performed under a grant from the Danish State Railways (DSB).

From 1/9/92-1/2/96 Supervisor for Ph.D. student Allan T. Andersen. The title of the study is "Evaluation and dimensioning of signaling systems for digital communication systems". The study was financed by grant no. 16-5132-1 OS the Technical Research Council of Denmark (STVF).

Fra 1/9/95-31/8/98 project leader for "Modelling packet arrivals in communication networks by chaotic maps and Markovian Arrival Processes" sponsored by the Technical Research Council of Denmark (STVF) under grant no. sagsnr. 9500947.

1/1/99 - 1/5/99 project "Databehandling i forbindelse med DGMA (Den Gode Medicinske Afdeling)" sponsored by DSI - Institut for Sundhedsvæsen.

1/2/00 - 1/6/00 project "Besejlingsforhold for færgefarten Rødby Puttgarden" sponsored by Easyline A/S.

1/9/00 - 31/3/01 project "Estimation of IPP parameters from counts" sponsored by Telenova - Deutsche Telekom.

From 1/9/00 participating in research network SLIP (ScaLing from Individuals to Populations) and supervisor for Ph.D. student Fredrik Nilsson "Optimal foraging theory

applied to simple models of patchy environments”. The project is financed by SJVF under grant no. 272-00-0023.

“SLIP Summer School on Stochastic Modelling in Marine Biology” Svendborg May 2002 (with Uffe Høgsbro Thygesen DFU).

1/10/01-31/8/03 Supervisor for Ph.D. student Thomas Kaare Christensen “Stochastic model for the description of traffic dynamics in time periods with stationary traffic”. The project was cosponsored by the Danish Road Directorate and the Transport Council. 1/11/04- consultant for Danish State Railways (DSB) S-train division “Automatic Registration of Passengers”.

1/8/06- Supervisor for Ph.D. student Thomas Bang Nielsen “Dimensioning of Call Centers”. The project is under a grant from DTU.

15/8/08- Supervisor for Ph.D. student Luz Judith Rodriguez Esparza “Applications of and statistical inference for Multivariate Matrix Exponential Distributions”. The project is under a grant from DTU.

Coapplicant and member of steering group of the Villum Kann Rasmussen Center of Excellence: MTLab (1/11/2008-31/10/2013).

Personal grants

Travel grant kr. 50.000 from Corrit foundation (1997) .

Travel grant kr. 60.000 from Vera and Carl Johan Michelsens foundation (2003).

Travel grant kr. 10.000 from Corrit foundation (2008) .

Invited talks

Workshop on Long range dependence in telecommunications Lund 1998. Third International Conference on Matrix Analytic Methods Leuven 2000.

Administration and management

1/12/88 to 14/12/91 member of IMSOR’s system administration group.

15/12/91-31/5/95 head of IMSOR’s (later IMM’s) system administration group.

1/6/97-31/12/99 deputy head of department.

1/9/03-31/12/04 Head of division: Geoinformatics, Image analysis, Signal processing, and Statistics at IMM. 1/1/05-31/1/08 Head of division: Mathematical Modelling, including Geoinformatics, Image analysis, Signal processing, Statistics, Scientific Computing, and Operations Research at IMM.