CURRICULUM VITAE

Personal Information

Name	Surname	Riis
	First Names	Søren Kamaric
Birth	Date	July 26, 1969
	Location	Virum
Family		Married to Lene Buhl Riis One daughter born December 10, 1996
Address	Private	Egebjerghaven 99 2750 Ballerup Denmark
	Phone	(+45) 4468 7468
	Work	Department of Mathematical Modeling Section for Digital Signal Processing Technical University of Denmark 2800 Lyngby Denmark
	Phone (direct)	(+45) 4525 3920
	Fax	(+45) 4525 2599
Email		sr@imm.dtu.dk
Web Page		http://eivind.imm.dtu.dk/staff/riis/riis.html

Education

Ph.D.		Enrolled as a Ph.D. student November 1994
	University	Technical University of Denmark Department of Mathematical Modeling Section for Digital Signal Processing
	Major Subject	Automatic speech recognition using Hidden Markov Model/Neural Network hybrids
	Minor Subjects	Speech production/perception Speech coding
	Completion	Expected May 1998

Continued on next page

Master		Master of Science in Electrical Engineering (M.Sc.E.E.)
	University	Technical University of Denmark Department of Mathematical Modeling Section for Digital Signal Processing
	Major Subjects	Digital signal processing Software design/development
	Minor Subjects	Mathematics and physics Analog/Digital hardware design Optical/RF communication systems
	Completion	August 1994 Masters project graded 13 (scale: 0 to 13) Average grade 11.2

Professional Experience

Teaching	1994-1997	During the Ph.D. study I have supervised numerous individual course students and two master project students. I have lectured/supervised on undergraduate and graduate courses in digital signal processing and speech processing. Furthermore, several talks have been given at Neural Network group research meetings at the Department of Mathematical Modeling and at the Department of Computer Science, University of Sheffield, UK.
International Research Visits	1996	Visiting researcher for one week at Sanger Centre Cambridge, UK
	1997	Visiting researcher for six months at Speech And Hearing Group (SPANDH) Department of Computer Science University of Sheffield Sheffield, UK
Conference Presentations	1995	Oral presentation at IEEE international Conference on Neural Networks (ICNN'95), Perth, Australia
	1996	Poster presentation at IEEE Nordic Signal Processing Symposium (NORSIG'96), Helsinki, Finland
	1997	Oral presentation at IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP'97), Münic, Germany

Continued on next page

Review activity	1997-	Technical reviewer for Journal of Computational Biology
	1997-	Technical reviewer for IEEE Signal Processing Letters
Employment	1991-1993	Spare-time job at Danfoss System Automatic Herlev, Denmark Work included updating technical manuals, technical drawing, design and implementation of test equipment for Danfoss Master 2000
Committee work	1994-1996	Member of the Electro Ph.D. Programme Committee

Areas of Interest

Computer Science	Software development, customer interfaces, data communications, system design (SW), WEB technologies (JAVA, HTML, VRML), computer technology, research & development
Modeling	Hidden Markov models, neural networks, linear modeling, optimization and generalization theory, research & development
Speech Processing	Automatic speech recognition (large/small vocabulary, acoustic/language modeling), speech coding, speech production/perception, speech synthesis
Mobile Com.	GSM, multimedia applications, user interfaces, Internet, data communications
Business	Project Management, administration

Technical Skills

Statistical Modeling	Intermediate	Linear preprocessing (PCA, ICA), Clustering
	Advanced	Decision theory, Hidden Markov modeling, artificial neural networks, speech recognition/coding, optimization algorithms, model complexity control
Networks	Basic	TCP/IP, network architectures, multimedia applications, data communications
	Intermediate	Internet, ATM, radio transmission (RF technology)
Programming Languages	Basic	Assembler, user interface design, object-oriented software
	Intermediate	Matlab, HTML, Gawk/Perl
	Advanced	C

Continued on next page

Operating Systems	Basic	Windows95, DOS
	Advanced	UNIX (Linux, HP-UX, Solaris). Assistant system administrator at Department of Mathematical Modeling (install/configure/maintain Linux on PCs and maintain HP workstations)
Hardware	Basic	RF design, power supply design, digital signal processing, analog/digital design

Language Skills

Danish	Native	
Swedish	Fluent	I read and understand Swedish fluently. My writing and speaking abilities in Swedish are good
English	Excellent	I read, write, speak and understand English excellently due to my visit at the University of Sheffield in 1997
German	Satisfactory	I read and understand German satisfactory. My writing and speaking abilities in German are basic
French	Satisfactory	I read and understand French satisfactory. My writing and speaking abilities in French are basic

Selected Publications

Journal papers with review

1997 A. Krogh and **S. Riis**, *Hidden Neural Networks*, 1997, Submitted to Journal of Neural Computation

1996 **S. Riis** and A. Krogh, *Improving Secondary Structure Prediction Using Structured Neural Networks and Multiple Sequence Alignments*, 1996, Journal of Computational Biology, Vol. 3, pp. 163-183

Conference papers with review

1997 **S. Riis** and A. Krogh, *Hidden Neural Networks: Application to Speech Recognition*, 1997, Submitted for IEEE International Conference on Acoustics, Speech and Signal Processing (1998)

1997 **S. Riis** and A. Krogh, *Hidden Neural Networks: A Framework for HMM/NN hybrids*, 1997, In Proceedings of IEEE International Conference on Acoustics, Speech and Signal Processing (1997), Vol. 4, pp. 3233-36

Continued on next page

1996 S. **Riis** and A. Krogh, *Joint Estimation of Parameters in Hidden Neural Networks*, 1996, In Proceedings of IEEE Nordic Signal Processing Symposium (1996), Vol. 1, pp. 431-434

1996 A. Krogh and **S. Riis**, *Prediction of Beta Sheets in Proteins*, In Advances in Neural Information Processing Systems (NIPS*8)

1995 **S. Riis**, *Combining Neural Networks for Protein Secondary Structure Prediction*, 1995, In Proceedings of IEEE International Conference on Neural Networks (1995)

This CV and selected publications can be accessed at http://eivind.imm.dtu.dk/staff/riis/riis.html

---