

CURRICULUM VITAE

Name Morten Lind

Born May 28, 1944 in Copenhagen, Denmark

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Affiliation Ørsted DTU Automation
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Education

- 1977 PhD degree in Control Engineering from Technical University of Denmark, Lyngby. Thesis: 'Selforganizing Control Systems'.
- 1969 MSc degree in Electrical Engineering from Technical University of Denmark, Lyngby.
- 1963 High School degree in Mathematics and Physics.

Employment

- 1987- Present Full Professor of Control Systems Engineering, Servolaboratorie. Since January 1st, 1995 – December 31, 1999 Department of Automation. After January 1, 2000 Ørsted DTU Automation all Technical University of Denmark, Kongens Lyngby Denmark.
- 1984-87 Full Professor of Digital Systems, Institute of Electronic Systems at Aalborg University, Denmark.
- 1983-84 Project manager for Risø group in ESPRIT project P96, Expert System Builder.
- 1977-83 Research Scientist in Human-machine systems group, Electronics Department at Risø National Laboratory, Roskilde Denmark.
- 1973-77 Research Scientist, Department of Reactor Technology at Risø National

Laboratory, Roskilde Denmark.

1969-73 Research Scientist in Dynamics and Control group, Electronics Department at Risø National Laboratory, Roskilde Denmark.

Professional Memberships

1994-Present Member of the advisory committee for the technical educations in Denmark (TUR), Danish Ministry of Education. Vice Chairman after 2001.

1986-92 Member of the PhD E-committee DTU.

1986 Planning committee for the TUP project, Teknologistyrelsen.

1985-88 E-commission, STVF The Danish Research Council.

1984-Present Member of the board of the Danish Automation Society (DAu).

Project Reviewer

1994-95 Research Council of Norway.

1983-00 EU Bruxelles. Review of ESPRIT projects. (e.g. GRADIENT, AMEBICA).

Journals

2001-Present Member of editorial board of Cognition Technology and Work, Springer.

Consultancy

2001- Present Scientific Advisor for GoalArt, Lund Sweden.

2000 Grundfoss A/S

1995 Korea Atomic Energy Research Institute, Taejon, South Korea.

1994 Electricité de France CHATOU.

1994 Risø National Laboratory, Cognitive Systems Group.

1993-95 Maridan A/S, MAST project SOUV.

1987-89 Mentor Informatik, SARA project.

1987-91 S. T. Lyngsø, ESPRIT project P2163 KBSSHIP.

1984-87 S. T. Lyngsø and Risø, ESPRIT project P96 Expert System Builder.

1984 ENEA, Rome Italy. Application of Multilevel Flow Modelling for Human-

Interface Design.

1981-83 Westinghouse, Pittsburgh USA. Development of new advanced control room concepts for PWR power plant plants.

Research Grants and Contracts

1988 H.C Ørsteds Fond. *Computer Equipment*. 270.000 Kr.

1989-92 STVF. *System Representation and Presentation in Process Control*. 1 MKr.

1992-93 CEC JRC Ispra. *Interactive Planning for Integrated Supervision and Control in Complex Plant*. Contract 4937-92-08 ED ISP DK. 28250 ECU.

1993 CEC JRC Ispra. *Methodologies for Analysis of Planning and Supervisory Functions in Complex Technological Systems*. Contract no: 4937-92-08 ED ISP DK. 22944 ECU.

?? STVF. *Sonar Based Inspection of Underwater Environments*.

?? Thomas B. Thriges Fond. *Equipment*. 100.000 Kr.

1994-99 EU HCM. *Robust Human Machine Interaction ROHMI*. 60.000 ECU.

1996-98 STVF and Energistyrelsen. *PIPESCAN*.

1996 H.C. Ørsteds Fond. *Instrumentation*. 400.000 DKr.

1998-00 STVF. *Model Based Operator Support*. 1 MKr.

1998-03 Grundforskningsfonden. *Center for Human Machine Interaction*. 2 MKr.

Organizer of International Workshops and Conferences

European Conference on Human Decision Making and Manual Control EAM. Technical University of Denmark.

1993 Cognitive Approaches to Process Control CSAPC'93. Hillerød, Denmark.

1994 2rd International Workshop on Functional Modeling of Complex Technical Systems. Technical University of Denmark.

1995 3rd International Workshop on Functional Modeling of Complex Technical Systems. University of Maryland at College Park, USA.
Coorganizer with Prof.Mohammad Modarres.

2001 European Conference on Human Decision Making and Manual Control EAM'2001. Technical University of Denmark.

Research Interests

Human-machine systems for supervisory control

Intelligent Control Systems, diagnosis and reactive planning

Modelling of complex socio-technical systems, Multilevel Flow Modeling.

Methodologies for design of plant wide control systems

Supervision of Visiting Scientists

1992-93 Akio Gofuku. *Functional Modelling for Engineering Design*.
Institute of Atomic Energy, Kyoto University. Kyoto, Japan.

1993-94 Fang Min. *Diagnosis using Multilevel Flow Models*.
Department of Electronical Engineering, Anhui Institute of Technology. Hefei,
China.

René Van Paassen

Supervision of PhD Projects

1987-91 Johan Kjær Hansen. *Decision Structures of Multi-agent Systems*. Funded by DTU.

1988-91 Flemming Skov Hansen. *Electrical Energy Management*. Funded by ATV and FLS Automation (EF-272).

1988-91 Helge Lang Pedersen. *Knowledge-based Operator Support System for Cogeneration Plants (VIDEC)*. Funded by ATV and Elkraft AMBA (EF-253).

1989-92 Ashraf Osman. *Graphical Control Environment (GRACE)*. Funded by STVF.

1990-93 Jan Aage Walseth. *Diagnostic Reasoning in Continuous Systems*.
Institute of Engineering Cybernetics, Technical University of Norway,
Norway.

1990-93 Steffen Stevnhoved Jørgensen. *Fault Diagnosis Using Generic Multilevel Flow Modelling Models*. Funded by ATV and S. T. Lyngsø (EF-309).

1991-94 Morten Norby Larsen. *Deriving Action Sequences of Start-Up Using Multilevel Flow Models*. Funded by DTU.

1992-95 Jacob Duschek. *Graph Grammars for Model Language Definition and User Interface Construction*. Funded by DTU.

1992-95 Gert Lysgaard Andersen. *Modelling and Control of Mobile Robots*. Funded by STVF.

Anders Persson. *Development of Advanced Operator Support for Supervision and Control of Complex Energy System*. Funded by ATV and Sydkraft A/S, Malmö Sweden (NIFU 38).

- 1994-97 Helle Poulsen. *Action Structures in Robotics and Process Control*. Funded by DTU.
- 1994-97 Michael Sørensen. *Object Based Large Scale Reuse in Industrial Systems Design*. Part of EU-ESPRIT project TORUS and funded by FLS Automation.
- Atoosa Jalashgar. *Fault Analysis of Process Control Systems*. Funded by Danish Research Academy and Risø National Laboratory.
- 1994-97 Hassan Yazdi. *Control and Supervision of Event-Driven Systems*. Department of Chemical Engineering, DTU. Funded by ATV and FLS Automation. (Co-supervisor).
- 1995-98 Anders Ishøj. *A Control System for an AUV*. Funded by ATV and Maridan A/S (EF-571).
- 1996-99 Christian Rud Pedersen. *A Systematic Approach to Design of Process Displays*. Funded by ATV and 7-Technologies.
- 1998-2000 Johannes Petersen. *Knowledge Based Support for Situation Assessment in Human Supervisory Control*. Funded by STVF.
- 2000- Present Jette Lundtang Poulsen. Funded by Risø National Laboratory.

External Examiner(PhD projects)

- 1985 Torben Rotbøll Andersen. *Regulering af Naturgasnet*. Servolaboratoriet. Danmarks Tekniske Højskole.
- 1988 Pierré Vadstrup. *Adaptiv Regulering af ikke –lineære systemer*. Servolaboratoriet. Danmarks Tekniske Højskole.
- 1989 Hans Ebert. *Distributed Systems for Process Control*. Institute of Electronic Systems. University of Aalborg.
- 1990 Klaus Bærentsen. *Mennesker og teknologi i historien*. Department of Psychology, University of Aarhus Denmark.
- 1991 Anne-Mette Sonnichsen. *At Designe Brugerinterfacet*. The School of Architecture, Aarhus Denmark.
- Raimo Korhonen. *Framework for Improving Quality and Efficiency in Automation Design*. Tampere University of Technology. Finland
- Søren Selmar.
Department of Production, University of Aalborg, Denmark
- Jens Mortensen. *Modeller af komplicerede systemer*. Department of Process Control, University of Aalborg, Denmark.
- 1992 Peter I. Koch. *Designing Advanced Man Machine Interfaces for Complex Distributed Supervisory Control Systems*. Department of Process Control, University of Aalborg, Denmark.

Kirsten Mølgaard Nielsen. *Metoder for modellering, simulering og regulering af store processer anvendt i sukkerproduktion*. Department of Process Control, University of Aalborg, Denmark.

Jens Dalsgaard Nielsen. *Metoder for modellering, simulering og regulering af store processer anvendt i sukkerproduktion*. Department of Process Control, University of Aalborg, Denmark.

Karl Erik Årzen.
Department of Automatic Control, Technical University of Lund, Sweden

Jan Eric Larsson. *Knowledge-Based Methods for Control Systems*.
Department of Automatic Control, Technical University of Lund, Sweden.

Geir Langli. *Improving Operational Safety Through Exploitation of Design Knowledge*. Department of Marine Technology, Technical University of Norway, Norway.

1993 Erling A. Woods. *The Hybrid Phenomena Theory*. Institute of Engineering Cybernetics, Technical University of Norway, Norway.

Jan Aage Walseth. *Diagnostic Reasoning in Continous Systems*.
Institute of Engineering Cybernetics, Technical University of Norway,
Norway.

Heikki Välisuo. *Model-Based Reasoning and the Control of Process Plants*.
Department of Chemical Engineering, Helsinki University of Technology,
Espoo Finland.

1996 Grethe Tangen. *Decision Making Support Applied to Hydropower Plant Upgrading*. Institutt for Teknisk Kybernetik, NTNU, Trondheim Norge.

2001 C. I. J. Khalil. *The Design of a Multimedia Adaptive Interface for Process Control using a Multi-Agent Approach*. Loughborough University, England.

Publications

1973

Lind, M. (1973). *Numerisk integration af differentiaalligninger på PDP-8*. Risø N-14-72.

Lind, M. (1973). *Stokastiske sekvensmaskiner, Markov processer og modeller af en klasse adaptive systemer*. Risø-N-73.

1975

Lind, M. (1975). *Dynamics and Control of a Simplified Once-through Boiler*. Risø-M-1759.

Lind, M. (1975). *Elements of Automata Theory and the Theory of Markov*

Chains. Risø R-309.

Lind, M. (1975). *Grundtræk af teorien for fuzzy systemer*. Risø N-13-75.

1976

Lind, M. (1976). *Investigation of a class of Self-organizing Control Systems*. Risø R-315.

1977

Lind, M. (1977). *Analysis of the Selforganizing Properties of a Stochastic Controller*. Risø-M-1962. (PhD Thesis).

1978

Lind, M. (1978). *Failure Analysis of Multivariable Process Plants*. Proc. Colloque sur la Sécurité dans l'Industrie Chimique, 27-19 September, Mulhouse, France.

Lind, M. (1978). *Extreme Event Analysis by Optimization Methods*. Institute on Safety and Risk Assessment in Chemical Plants- International School on Reliability Engineering and Fault Tree Analysis Dedicated to Chemical Installations and Systems. May 29- June 9. Urbino, Italy.

Lind, M. (1978). *Notes on Failure Analysis of Process Plants with Feedback Loops*. Electronics Department Risø, Internal report N-18-78.

1979

Lind, M. (1979). *Control System Structures and the Concept of Self Reference*. Dansk AI selskabs møde AIW-3, Risø, September 14.

Lind, M. (1979). *The use of Flow Models for Design of Plant Operating Procedures*. IWG/NPPCI Specialist Meeting on Procedures and Systems for Assisting an Operator during Normal and Anomalous Nuclear Power Plant Operation Situations. Garching, F. R. Germany, 5-7 December.

1980

Lind, M., Talmon, H., (1980). *The use of Mass and Energy Balances for Observation in Process Plant Diagnosis*. Risø-M-2261.

1981

Lind, M. (1981). *The use of Flow Models for Automated Plant Diagnosis*. In: Human Detection and Diagnosis of System Failures (Eds. J.Rasmussen and W.B. Rouse), Plenum Press, New York, pp. 411-432.

Rasmussen, J., Lind, M. (1981). *Coping With Complexity*. European Conference on Human Decision Making and Manual Control. Delft, Holland. (Also published as Risø-M-2293. Risø National Laboratory, Denmark 1981).

1982

Hollnagel, E. and Lind, M. (1982). *Self-reference as a Problem in the Control of Complex Systems*. Psyke og Logos, No. 2.

Lind, M. (1982). *Artificial Intelligence Techniques in Process Plant State*

Identification. SAIS-82 Workshop on Artificial Intelligence, 23-25 April, UPMAIL, Uppsala University Sweden.

Lind, M. (1982). *Generic Control Tasks in Process Plant Operation*. 2nd European Annual Manual, Bonn, F.R. Germany, 2-4 June.

Lind, M. (1982). *Multilevel Flow Modelling of Process Plant for Diagnosis and Control*. Proc. International Meeting on Thermal Reactor Safety (Chicago II, USA, 1982), pp 1653-1666. (Risø-M-2357).

Rasmussen, J. and Lind, M. (1982). *A Model of Human Decision Making in Complex Systems and Its Use for Design of System Control Strategies*. American Control Conference ACC-82, June 14-16. (Invited paper).

1983

Lind, M. and Goodstein, L. P. (1983). *Expert Systems for Diagnosis and Control of Technical Systems*. ESPRIT project 96 (Expert Systems Builder) report no. 381-SR-03204-2, November.

Lind, M. (1983). *Some experiences in application of the Multilevel Flow Modelling Method*. Enlarged Halden Programme Group Meeting on Fuel Performance Experiments and Analysis and Computerized Man-Machine Communication, Loen, Norway, May 23-28.

Lind, M. (1983). *Some experiences in application of the Multilevel Flow Modelling Method*. Proc. Third European Annual Conference in Human Decision Making and Manual Control. May 30-June 1.

Lind, M. (1983). *A Systems Modelling Framework for Design of Integrated Process Control Systems*. IASTED Conference ACI-83, Lyngby, Denmark, June 28- July 1.

Lind, M. (1983). *ESB-Expert System Builder, Domain Requirements*. ESPRIT project 96 report No. 381-SR-03204-2, November.

1984

Lind, M. (1984). *Using AI tools for a Prototype Expert System for Process Plant Diagnosis*. ESPRIT project 96, Report No. 381-SR-032204-3, January.

Lind, M. (1984). *Expert System for Process Plant Diagnostics*. ESPRIT project 96 report No. 381-WP-03204-5, May.

Lind, M. (1984). *ESB System Characteristics*. ESPRIT project 96 report No. 391-WP-03204-6, June.

Lind, M. (1984). *Decision Models and the Design of Knowledge Based Systems* In. Human Decision Making in Process Environments (Eds: Hollnagel, E., Manzini, G. and Woods, D.), Proceedings from NATO ASI meeting in San Miniato, Italy.

Lind, M. (1984). *Information Interfaces for Process Plant Diagnosis*. Risø-M-2417. Risø National Laboratory.

1985

Lind, M. (1985). *Expert Systems – Introduction to Basic Concepts*. Danish Automation Society Conference on “Expert Systems – why, how and when?”. DTH, Lyngby, October.

1987

Lind, M., Harder, E., Agger, E. And Jensen, H. (1987). *Systembeskrivelse og præsentation i proceskontrol*. Report from SIP pilot project. Servolaboratoriet, Danmarks Tekniske Højskole.

1988

Lind, M. (1988). *Issues in Modelling Information Flow*. Bad Homburg workshop on "New Technology Distributed Decision Making and Responsibility, May 5-7.

Lind, M. (1988). *Diagnosis using Multilevel Flow Models*. ESPRIT Project 96 (Expert System Builder), August.

Lind, M. (1988). *System Concepts and the Design of Man-Machine Interfaces for Supervisory Control*. In: Tasks, Errors and Mental Models (L.P. Goodstein, H.B. Andersen and S.E. Olsen), Taylor and Francis , London .

1989

Lind, M. (1989). *Intelligent Menneske-Maskine Interface i Proceskontrol*. Nordisk människa –maskinkonferens. Mariehamn, Åland. May 9-11.

Lind, M et. al. (1989). *Human-Machine Interface for Diagnosis based on Multilevel Flow Modelling*. Proc.2nd. European Meeting on Cognitive Science Approaches to Process Control, Siena, Italy, October 24-28.

1990

Lind, M. (1990a). *Representations and Abstractions for Interface Design Using Multilevel Flow Modelling*. In: Human-Computer Interaction and Complex Systems (G.Weir and J. Alty(eds.)), Academic Press, London.

Lind, M. (1990b). *Representing Goals and Functions of Complex Systems - An Introduction to Multilevel Flow Modelling*. Institute of Automatic Control Systems. Report no: 90-D-381. Technical University of Denmark, November.

Lind, M. (1990c). *ABSTRACTIONS - Description of Classes and their use*. Institute of Automatic Control Systems. Report no:90-D-380. Technical University of Denmark, July.

Lind, M. (1990d). *ABSTRACTIONS – Software Reference*. Institute of Automatic Control Systems. Report no:90-E-382. Technical University of Denmark, July.

Lind, M. (1990e). *Architecture for Real Time MFM diagnosis*. Institute of Automatic Control Systems. Report no:90-E-387. Technical University of Denmark.

Lind, M. (1990f). *Modelling Control Tasks in Complex Systems*. Proc. NATO Advanced Study Institute on Automation and Systems Issues in Air Traffic

Control, June. Maratea Italy.

Lind, M. (1990g). *Multilevel Flow Modelling for Control Systems Design*. Proc. Nordic CACE Symposium, Technical University of Denmark, Lyngby.

1991

Lind, M. (1991a). *ABSTRACTIONS for Modelling of Diagnostic Strategies*. IFAC Workshop on Computer Software Structures Integrating AI/KBS Systems in Process Control. May 29-30, 1991 Bergen, Norway.

Lind, M. (1991b). *On the Modelling of Diagnostic Tasks*. Proc. 3rd European Conference on Cognitive Science approaches to Process Control, Cardiff, September 2-6.

Lind, M. (1991c). *Decision Models and the Design of Knowledge-based Systems*. In: Distributed Decision Making - Cognitive Models for Cooperative Work. (Rasmussen, J., Brehmer, B., Leplat, J.(Eds)), John Wiley, Chichester.

Pedersen H.L., Bergstrøm, W., Lind, M. (1991). *Knowledge Based Operator Support System for Cogeneration Plants*. Third Symposium on Expert Systems Application to Power Systems ESAP 91, April 1-5, Tokyo, Japan.

1992

Lind, M. (1992a). *The Emergence of Levels of Abstraction in Complex Systems*. Form, Epistemology, Science - A cross disciplinary symposium around the work of Rene' Thom. Center for Kulturforskning, Aarhus Universitet, March 11-13.

Lind, M. (1992b). *A Categorization of Models and its Application in the Analysis of Planning Knowledge*. Proc. Post ANP92 Conference Seminar on Man-Machine systems and Cooperative Activity in Technological Systems, Nov 3-5, Kyoto Japan.

Lind, M., Larsen, M.N., Osman, A. (1992). *Applications of Multilevel Flow Modeling*. Proc. ANP92 International Conference on Design and Safety of Advanced Nuclear Power Plants, October-25-29, 1992, Tokyo Japan.

Walseth, J. Å., Foss, B. A., Øgaard, O., Lind, M. (1992). *Models for Diagnosis-Application to a Fertilizer Plant*. Proc. IFAC symposium on "On line Fault Detection in the Chemical Process Industries", April 22-24.

Weir, G., Lind, M. (1992). *Content and Form in Human-Machine Interaction*. Proc. 5th IFAC/IFIP/IFORS/IEA Symposium on Analysis, Design and Evaluation of Man-Machine Systems. The Hague, June 9-11, The Netherlands.

1993

Lind, M. (1993a). *Goals and Functions of an Auxiliary Feedwater System*. In: Interactive Planning for Integrated Supervision and Control in Complex Plant. Final report from CEC JRC project: 4937-92-08-ED ISP DK.

Lind, M. (1993b). *Functional Architectures for Systems Management and*

Control. In: Interactive Planning for Integrated Supervision and Control in Complex Plant. Final report from CEC JRC project: 4937-92-08-ED ISP DK.

Lind, M. (1993c). *Multilevel Flow Modelling*. Presented at AAAI'93 workshop on 'Functional Reasoning', Washington.

Hollnagel, E. and Lind, M. (1993). Proceedings of CSAPC '93 (Editors). Hillerød Denmark.

Larsen, M. N., Kjær-Hansen J. and Lind, M. (1993). *An Environment for Interactive Start-Up*. Proc. Cognitive Science Approaches to Process Control CSAPC '93, Hillerød Denmark.

1994

Fang, M and Lind, M. (1994). *MFM Model-Based Diagnosis*. Paper presented at 2nd International Workshop on Functional Modeling of Complex Technical Systems, Technical University of Denmark, August 15-16.

Gofuku, A. and Lind, M. (1994). *Combining Multilevel Flow Modeling and Hybrid Phenomena Theory for Efficient Design of Engineering Systems*. Proc. 2nd IFAC Workshop on Computer Structures Integrating AI/KBS Systems in Process Control. August 10-12. Lund Sweden.

Gofuku, A. and Lind, M. (1994). *Knowledge-based support for efficient design of engineering Systems*. Proc. 2nd. International Conference on Intelligent Systems Engineering. Hamburg Germany, Sept. 5-9.

Gofuku, A. and Lind, M. (1994). *Deriving Behaviour of Engineering Systems from a Functional Model*. Presented at 2nd. International Workshop on Functional Modelling of Complex Technical Systems, Technical University of Denmark, August 15-16.

Gofuku, A., Lind, M. and Hidekazu, Y. (1994). *Development of Intelligent Support System for Conceptual Design of Engineering System*. Presented at Fall meeting of the Atomic Energy Society of Japan.

Lind, M. (1994a). *On Functions of Objects and Actions in Complex Human-Machine Systems*. In: Methodologies for Analysis of Planning, Control and Supervisory Functions in Complex Systems. Final report from CEC JRC project: 4937-92-08-ED ISP DK.

Lind, M. (1994b). *Modeling Goals and Functions of Complex Industrial Plant*. Applied Artificial Intelligence, Vol 8 No. 2 , April-June .

Lind, N og Henriksen, Lars. (1994). *Muligheder og grænser for kunstigt syn*. In: Øje for Øje- en antologi om synet (Ed: Dalgaard, I., Kleinert, P. and Stuhr, L., Det Kongelige Danske Kunstakademi).

1995

Fang, M. and Lind, M. (1995). *Model Based Reasoning Using MFM*. Proceedings of Pacific-Asian Conference on Expert Systems PACES. Huangshan, May 15-18, China.

Lind, M. (1995). *Status and Challenges of Intelligent Plant Control*. 4th IFAC Symposium on Dynamics and Control of Chemical Reactors, Distillation Columns and Batch Processes DYCORD+95, 7-9 June, Helsingør, 1995. (Invited).

1996

Lind, M. (1996). *Interpretation Problems in Modelling Complex Artifacts for Diagnosis*. Cognitive Systems Engineering for Process Control CSEPC'96, 12-15 Nov, Kyoto Japan.

Lind, M., Larsen, M.N. (1995). *Planning and the Intentionality of Dynamic Environments*. In: Ed: Hoc, J., Cacciabue, P.C. and Hollnagel, E. *Expertise and Technology*. Lawrence Earlbaum, New Jersey.

1998

Petersen, J., Lind, M. (1998). *Considerations on Agents and Objects in Multilevel Flow Modeling*. Proc. EAM, Valenciennes, December 14-16.

1999

Lind, M. (1999). *Making Sense of the Abstraction Hierarchy*. Proc. Conf. on Cognitive Science Approaches to Process Control CSAPC'99. Villeneuve d'Asc, France, Sept 20-24, pp 195-200.

Lind, M. (1999). *Plant Modeling for Human Supervisory Control*. Transactions of the Institute of Measurement and Control, Vol 21. No 4/5, pp. 171-180.

Pedersen, C. R., Lind, M. (1999). *Conceptual Design of Industrial Process Displays*. Proc. Cognitive Science Approaches to Process Control CSAPC'97, Baveno Italien.

Pedersen, C. R., Lind, M. (1999). *Conceptual Design of Industrial Process Displays*. To be published in Ergonomics (Special Issue in 'Time and Space in Process Control).

2000

Lind, M. (2000). *Making Sense of the Abstraction Hierarchy in the Power Plant Domain*. Submitted for publication in Cognition Technology and Work.

2001

Lind, M. (2001). *Actions, Functions and Failures in Dynamic Environments*.

Lind, M. (2001). *Possibilities for Action*.

Lind, M. (2001). *Analysis of Control and Supervision Task on Sally Mærsk*.

Lind, M. (2001). *Proceedings of EAM 2001 (Ed.)*. Technical University of Denmark, June.

Lind, M. (2001). *Semiotics and Intelligent Control*. Proceedings IFIP WG8.1 Working Conference Organizational Semiotics: Evolving a science of information systems. Montreal, Canada. July 24-26.

Participation in Conferences and Workshops

- 1970 CAS Seminar on Artificial Intelligence, Dubrovnik, Yugoslavia. June 29- July 11.
- 1977 IAEA/NPPCI Specialists' Meeting on "Nuclear Power Plant Control Problems Associated with Load Following and Network Transients." Cadarache, France. January 26-27.
- 1978 Colloque sur la Sécurité dans l'Industrie Chimique, 27-19 September, Mulhouse, France.

International School on Reliability Engineering and Fault Tree Analysis Dedicated to Chemical Installations and Systems. May 29- June 9. Urbino, Italy.

- 1979 Dansk AI selskabs møde AIW-3, Risø, September 14.

IWG/NPPCI Specialist Meeting on Procedures and Systems for Assisting an Operator during Normal and Anomalous Nuclear Power Plant Operation Situations. Garching, F. R. Germany, 5-7 December.

- 1981 European Conference on Human Decision Making and Manual Control. Delft, Holland.
- 1982 European Conference on Human Decision Making and Manual Control, Bonn, F.R. Germany, 2-4 June.

American Control Conference ACC-82, June 14-16.

International Meeting on Thermal Reactor Safety. Chicago II, USA.

- 1983 Enlarged Halden Programme Group Meeting on Fuel Performance Experiments and Analysis and Computerized Man-Machine Communication, Loen, Norway, May 23-28.

3rd European Annual Conference on Human Decision Making and Manual Control. Risø National Laboratory, Roskilde, Denmark. May 30- June 1.

IASTED Conference on Applied Control and Identification ACI'83. Copenhagen, Denmark. June 28 – July 1.

NATO ASI meeting in San Miniato, Italy.

- 1984 6th European Conference on Artificial Intelligence ECAI'84. Pisa, Italy. September 5-7.
- 1986 6th European Annual Conference in Human Decision Making and Manual Control. UWIST, Cardiff, Wales. June 2-4.
- 1988 Bad Homburg workshop on "New Technology Distributed Decision Making and Responsibility, May 5-7.

7th European Conference on Human Decision Making and Manual Control. EDF, Paris, France. October 18-20.

- 1989 Nordisk människa-maskinkonferens -Människan I komplexa system. VTT Symposium 106. Mariehamn, Åland. 9-11 Maj.
Cognitive Science Approaches to Process Control CSAPC'89. Siena, Italy, October 24-28.
- 1990 NATO Advanced Study Institute on Automation and Systems Issues in Air Traffic Control, June. Maratea Italy.

Nordic CACE Symposium, Technical University of Denmark, Lyngby.
- 1991 IFAC Workshop on Computer Software Structures Integrating AI/KBS Systems in Process Control. May 29-30, 1991 Bergen, Norway.

Cognitive Science approaches to Process Control CSAPC'91. Cardiff, September 2-6.
- 1992 Form, Epistemology, Science - A cross disciplinary symposium around the work of Rene' Thom. Center for Kulturforskning, Aarhus Universitet, March 11-13.

5th IFAC/IFIP/IFORS/IEA Symposium on Analysis, Design and Evaluation of Man-Machine Systems. The Hague, June 9-11, The Netherlands.

Post ANP92 Conference Seminar on Man-Machine systems and Cooperative Activity in Technological Systems, Nov 3-5, Kyoto Japan.

ANP92 International Conference on Design and Safety of Advanced Nuclear Power Plants, October-25-29, 1992, Tokyo Japan.
- 1993 AAAI'93 workshop on 'Functional Reasoning', Washington.

Cognitive Science Approaches to Process Control CSAPC '93, Hillerød Denmark.
- 1994 2nd IFAC Workshop on Computer Structures Integrating AI/KBS Systems in Process Control. August 10-12. Lund Sweden.

2nd. International Conference on Intelligent Systems Engineering. Hamburg Germany, Sept. 5-9.

2nd. International Workshop on Functional Modelling of Complex Technical Systems, Technical University of Denmark, August 15-16.
- 1995 Pacific-Asian Conference on Expert Systems PACES. Huangshan, May 15-18, China.

4th IFAC Symposium on Dynamics and Control of Chemical Reactors, Distillation Columns and Batch Processes DYCORD+95, 7-9 June, Helsingør, Denmark.
- 1996 Cognitive Systems Engineering for Process Control CSEPC'96, 12-15 Nov, Kyoto Japan.

- 1997 Cognitive Science Approaches to Process Control CSAPC'97. Baveno, Italien.
- 1998 EAM, Valenciennes, December 14-16.
- 1999 1999. Cognitive Science Approaches to Process Control CSAPC'99. Villeneuve d'Asc, France, Sept 20-24.
- 2001 EAM. Technical University of Denmark, June.
- IFIP WG8.1 Working Conference Organizational Semiotics:Evolving a science of information systems. Montreal, Canada. July 24-26.