

Curriculum Vitae

Björn Wittenmark



Björn Wittenmark was born in Växjö, Sweden March 7, 1943. He is a Professor Emeritus at the Department of Automatic Control, Faculty of Engineering, Lund University, Lund, Sweden. His main research interests are in the fields of adaptive control, digital and distributed control, and process control.

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Degrees

Master of Engineering (Civilingenjörsexamen) in Electrical Engineering at Faculty of Engineering, Lund University, 1966

Teknologie licentiat degree in Automatic Control and Computer Science at Faculty of Engineering, Lund University, 1971

Ph.D. (Teknisk doktorsexamen) in Automatic Control at Faculty of Engineering, Lund University, 1973

Honorary Docent (Oavlönad docent) in Automatic Control at Faculty of Engineering, Lund University, 1977

Employment

Professor emiritus in Automatic Control, Lund University, 2010–

Head of Lund University Library, Lund University, 2011–2013

Full professor in Automatic Control, Lund University, 1989–2010

Assistant Vice-Chancellor of Lund University, 2003–2008

Deputy Dean of Faculty of Engineering, Lund University, 1996–1999

Head of the Department of Automatic Control, 1980–81, 1987–1994, 2000–2003

Senior lecturer at Automatic Control, LTH, 1970–89

Research engineer at Automatic Control, LTH 1969–70

Teaching assistant at Automatic Control, LTH, 1966–69

Research areas

His main research areas are adaptive control, digital and distributed control, and process control. His research in self-tuning control and adaptive control has had a great influence on research and application of adaptive control throughout the world.

Publications

He is the coauthor of seven books and conference proceedings in the area of automatic control, digital control, and adaptive control. He has coauthored the internationally used textbooks *Computer Controlled Systems* and *Adaptive Control*.

The books are translated to Chinese, Japanese, Spanish, and Russian. He has contributed with more than 100 books, published papers, and refereed conference contributions.

Awards and recognitions

Elected *Fellow of IEEE* in 1991 for his research in adaptive control with the motivation: "For contributions to adaptive control and to the development of self-tuning regulators".

The *IFAC Congress Control Engineering Textbook Prize* in 1993 for the textbook *Computer Controlled Systems* (coauthored with Karl Johan Åström). Motivation: "This textbook has had a major impact on the teaching and practice of control".

Elected member of *Kungliga Fysiografiska Sällskapet (Royal Physiographic Society)* in Lund, 1997.

The article *On Self-Tuning Regulators, Automatica* 1973 (coauthored with Karl Johan Åström) was selected by IEEE Control System Society to be reprinted in the book *Twenty-five Seminal Papers in Control*, edited by Tamer Basar, IEEE Press 2001, containing the 25 most influential papers in control during the 20th century.

Assignments and commissions

Department of Automatic Control

Head of the department of Automatic Control, LTH, 1980–81, 1987–94, 2000–2003
Director of studies at Automatic Control, LTH, 1973–77, 1978–86 (Except for times being head of the department).

Lund University

Assistant Vice-Chancellor, Lund University, 2003–2008

Deputy Dean, Faculty of Engineering, Lund University, 1996–99.

Chairman of the equal opportunities group, Lund University, 1992-1995.

Member of the Board of the Faculty of Engineering, Lund University, 1993–99.

Director of studies at the Program of Computer Engineering, Faculty of Engineering, Lund University, 1980–85.

Member of the Board of Studies for the curriculum in Engineering Physics, Electrical Engineering, and Computer Engineering at Faculty of Engineering, Lund University, 1984–86.

Sweden

External reviewer for professorship, senior lectureships, and honorary docents.

Faculty opponent and member of the examination committees for Ph.D thesis.

Member of the Board of Lund University Development Company (LUUAB), 1997–2000 and Chematur AB 1998–2000.

Member of Advisory Committees at STU and NUTEK and reviewer for TFR and NUTEK.

Through research and education many industrial contacts within companies in Sweden.

Chairperson of the Committee for Equal Opportunities at Lund University, 1992–95.

Member of the board of Lunds Datacentral (LDC) at Lund University, 1995–2001.

International

External reviewer for professorships and for Ph.D. thesis.

Appointed member of the Board of Governors of the *IEEE Control System Society*

in 1990. Elected member of the Board of Governors of the *IEEE Control System Society* 1992–94, 2002–2004.

Lecturer within the Distinguished Lectures Program of the *IEEE Control System Society* 1993–2002.

Member of the *Council for European Union Control Association*, 1997–2001

Member of Technical Committees and Working Groups within *IFAC*.

Associate editor: *Automatica* 1984–94.

Associate Editor at Large *IEEE Transactions on Automatic Control* 1988–90.

Member of Editorial Board: *Optimal Control Applications & Methods* 1984–2006, *Journal of Forecasting* 1985–, *International Journal of Adaptive Control and Signal Processing* 1987–2006, and *IEE Proc. Control Theory and Applications* 1994–.

Reviewer of papers for journals and conferences as well as applications to national science and engineering foundations.

Visits and lectures at numerous universities throughout the world.

Member of program committees for many international conferences.

Sabbatical leaves in Canada (3 months), USA (16 months) and Australia (13 months).