

Curriculum Vitae Arne Svensson

Education

- Master of Science (Civilingenjör) in Electrical Engineering, University of Lund, Lund, Sweden, Sep., 1979.
- Lic. Eng. (Teknologie licentiat), Telecommunication Theory, University of Lund, Lund, Sweden, Dec., 1982. The title of the thesis is *Receivers for Digital FM*.
- Ph.D. (Teknologie doktor), Telecommunication Theory, University of Lund, Lund, Sweden, May, 1984. The title of the thesis is *Receivers for CPM* and the supervisor was Dr. Carl-Erik Sundberg.

Academic Appointments/Employments

- Sep. 1980–Dec. 1980: Research engineer at Telecommunication Theory, University of Lund, Lund, Sweden.
- Jan. 1981–Oct. 1984: Research assistant at Telecommunication Theory, University of Lund, Lund, Sweden.
- Nov. 1984–Jul. 1987: Docent at Telecommunication Theory, University of Lund, Lund, Sweden. This was a deputy position between Nov. 1984 and Dec. 1985. He was granted the Docent title in 1985.
- From Apr. 1993: Professor in Communications Systems, Chalmers University of Technology, Gothenburg, Sweden.

Other Employments

- Aug. 1987–Dec. 1987: Engineer at Ericsson Radio Systems, Mölndal, Sweden.
- Jan. 1988–Dec. 1994: Engineer/Specialist at Ericsson Microwave Electronics, Mölndal, Sweden.

Awards

- *Young Scientists Award* of the International Union of Radio Science (URSI) in 1984.
- *Paper of the Year Award* of IEEE Vehicular Technology Society in 1986 for the paper "Performance Evaluation of Differential and Discriminator Detection of Continuous Phase Modulation," by A. Svensson and C.-E. Sundberg which appeared in Vol. VT-35, No. 3, Aug. 1986, pp. 106–117.
- *Senior Member* of the IEEE in Apr. 1990.
- *Fellow* of the IEEE in Jan. 2001.

Research Projects (selected)

- 1999–2001: Primary investigator for *Multiuser Detection and Channel Estimation in CDMA Systems*, which is funded by the Swedish Research Council for Engineering Sciences.
- 1999–2001: Primary investigator for *Channel Coding in Wireless CDMA Systems*, which is funded by the Swedish Research Council for Engineering Sciences.
- 2000–2003: Primary investigator for *System Design and Performance Analysis for a Wireless Communication System at 60 GHz*, which is co-funded by High Frequency Electronics (a

research program funded by the Foundation for Strategic Research) and the Swedish Research Council for Engineering Sciences (from 2001).

- Apr. 2002–Oct. 2004: Responsible scientist at Chalmers in IST project *Ultra Wideband Audio Video Entertainment System (ULTRAWAVES)*, which is funded by the European Union.
- 2004–2005: Participant and project leader for the UWB activities in IST project *Network of Excellence in Wireless Communication (Newcom)*, which is funded by the European Union.
- 2003–2006: Primary investigator for *Wireless Communication System for Future Safe Traffic*, which is funded by Vinnova.
- 2004–2006: Primary investigator for *Physical layer algorithms for UWB communications*, which is funded by the Swedish Research Council.
- 2004–2007: Responsible scientist at Chalmers in IST project *Wireless World Initiative New Radio (Winner)*, which is funded by the European Union.
- 2006–2011: Responsible scientist at Chalmers in *Center for High Speed Wireless Communications*, which was funded by the Foundation for Strategic Research.
- 2007–2010: Primary investigator for *Reliable Packet Transmission in Ultrawideband Systems*, which is funded by the Swedish Research Council.
- 2008–2011: Responsible scientist at Chalmers in *Mobility management, control and routing technology for IMT-Advanced and beyond*, which was funded by Vinnova.

Other experience (selected)

- From 1986 : Supervision of 15 Ph.D. candidates to Ph.D degree (Torgny Palenius 1991, Tony Ottosson 1997, Ann-Louise Johansson 1998, Pål Frenger 1999, Pål Orten 1999, Sorour Falahati 2002, Bartosz Mielczarek 2002, Maxime Flament 2002, Tommy Svensson 2003, Ali Behravan 2006, Kia Wiklundh 2007, Florent Munier 2007, Mats Rydström 2008, , Arash Tahmasebi Toyserkani 2010, Alex Alvarado 2011), and two to Lic. Eng. degree (Matts-Ola Wessman 2005, Aleksander Våljemäe 2005).
- 1997–2004: Member of the Executive Committee of *Personal Computing and Communication*, a strategic research program funded by the Foundation for Strategic Research.
- 1999–2001: Editor of *IEEE Journal on Selected Areas in Communications: Wireless Communication Series*.
- 1999–2003: Member of the council of *Svenska Elektro- och Dataingenjörers Riksförening*.
- 2000–2010: Member of board of the *Nordic Radio Society*.
- 2001–2007: Editor of *IEEE Transactions on Wireless Communications*.
- 2002–2005: Director of studies in *the research school PCC++ in Personal Computing and Communications*.
- 2002–2004: Chairman of the evaluation committee for *the SIBED program* at Vinnova.
- 2004–2007: Member of the Executive Board of *Network of Excellence in Wireless Communication (Newcom)*, which is funded by the European Union.
- From 2005: Head of department at *Department of Signals and Systems at Chalmers*.
- 2005–2006: Guest editor of special issue on “Ultra-wideband (UWB) Communication Systems-Technology and Applications” in *EURASIP Journal on Wireless Communications and Networking*.
- 2006–2007: Guest editor of special issue on “Adaptive Modulation and Transmission” in *the Proceedings of the IEEE*.

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- 2007-2008: Guest editor of special issue on “Multicarrier Systems” in *EURASIP Journal on Wireless Communications and Networking*.
- From 2007: Member of the Editorial Board of the *Proceedings of the IEEE*.