

CURRICULUM VITAE

BJÖRN OTTERSTEN

DEGREES

- Sept 1986 – Jan 1990 Doctor of Philosophy, Electrical Engineering Stanford University, Stanford CA
Sept 1982 – June 1986 Master of Science, Applied Physics Linköping University, Sweden

CURRENT POSITIONS

- Jan 2009 – Founding Director of Interdisciplinary Centre for Security, Reliability and Trust,
University of Luxembourg
Jan 2009 – Professor, University of Luxembourg
Dec 1991 – Professor of Signal Processing, Royal Institute of Technology, Stockholm, Sweden

PREVIOUS POSITIONS

- Dec 2004 – Dec 2008 Dean of School of Electrical Engineering, Royal Institute of Technology,
Stockholm, Sweden
Sept 2002 – Dec 2008 Guest Professor at University of Luxembourg
Nov 1992 – Dec 2004 Chairman of the Dept. of Signals, Sensors & Systems,
Royal Institute of Technology, Stockholm, Sweden
July 2006 – Dec 2008 Founding Director Linnaeus Center ACCESS,
Royal Institute of Technology, Stockholm, Sweden
Jan 2001 – Dec 2008 Founding Director of Graduate School in Telecommunications, Sweden
June 2000 – May 2003 Guest Professor at the Dept. of Electrical Engineering,
Katholieke Universiteit Leuven, Leuven, Belgium
Jan 2001 – Dec 2002 Co-founder and Director of Education at Wireless@KTH
Nov 1991 – Dec 1991 Visiting Professor, Dept. of Electrical Engineering, Stanford University, CA

DISTINCTIONS

- 2019 Best Column Award, IEEE SPS Signal Processing Magazine
2019 FNR Award, Outstanding Scientific Publication
2019 Best Paper Award, IEEE International Conference on Recent Advances in Signal Processing,
Telecommunications & Computing
2018 Group Technical Achievement Award, EURASIP
2018 Best Paper Award, Journal on Wireless Communications and Networking
2018 Best Paper Award, International Conference on Image and Information Processing
2018 IEEE *Access* Best Multimedia Award
2017 Recipient of the European Research Council Advance Research Grant
2017 Best Paper Award, 2nd place, IEEE International Conference on Image Processing
2015 Best Paper Award, IEEE Computer Vision and Pattern Recognition (CVPR) workshop
2015 Best Paper Award, 10th International Conference on Cognitive Radio Oriented Wireless Networks
2014 Cedergren Medal, H.T. Cedergren Foundation for outstanding contributions to electrical
engineering
2014 Satellite Communications Distinguished Service Award, IEEE Communications Society for

contribution in the field of satellite communications

- 2013 Best Paper Award, IEEE Signal Processing Society Signal Processing Letters
- 2011 Technical Achievement Award, IEEE Signal Processing Society for contributions in array signal processing and wireless communication
- 2011 Co-author of paper awarded Best Student Paper at IEEE 4th International Workshop on Computational Advances in Multi-Sensor Adaptive Processing (CAMSAP)
- 2011 Co-author of paper awarded Best Student Paper at IEEE 7th International Symposium on Image and Signal Processing and Analysis (ISPA)
- 2010 Meritorious Service Award, EURASIP
- 2009 A first recipient of the European Research Council Advanced Research Grant
- 2009 Best Paper Award, International Conference on Wireless Communications and Signal Processing
- 2008 EURASIP Fellow for contributions to the field of signal processing
- 2007 Co-author of paper awarded First Prize for Best Student Paper at IEEE International Conference of Acoustics, Speech, and Signal Processing
- 2006 Co-author of paper awarded IEEE Signal Processing Society Young Author Best Paper Award
- 2004 IEEE Fellow for contributions to antenna signal processing and wireless communications
- 2002 Best Paper Award 5th International Symposium on Wireless Personal Multimedia Communications
- 2001 Co-author of paper awarded IEEE Signal Processing Society Paper Award
- 1993 IEEE Signal Processing Society Paper Award

ASSIGNMENTS OF IMPORTANCE

- 2019 – Swedish Foundation for Strategic Research, Board member
- 2018 – Director of Technical Activities, EURASIP Board of Directors
- 2016 – Villum Foundation, Denmark, Technical and Natural Sciences Committee
- 2011 – International Advisory Comm., CominLabs – Laboratoires d'Excellence, France
- 2019 – Editorial Board of IEEE Open Journal of Signal Processing
- 2013 – Editorial Board of Foundations and Trends in Signal Processing
- 2003 – Editorial Board of EURASIP Journal on Advances in Signal Processing
- 2003 – Editorial Board of EURASIP, SIGNAL PROCESSING Journal
- 2018 – Editor-in-Chief Emeritus, SIGNAL PROCESSING Journal
- 2014 – 2018 Swedish Research Council, Board member
- 2016 – 2018 Chairman of Awards Board, IEEE Signal Processing Society
- 2013 – 2018 EURASIP Fellow Committee
- 2012 – 2018 European Digital Champion, Luxembourg advising European Commission
- 2015 – 2018 Awards Board, IEEE Fourier Award
- 2005 – 2017 Editor-in-Chief EURASIP, SIGNAL PROCESSING Journal
- 2010 – 2014 International Advisory Board, Security Link, Excellence Centre, Linköping University
- 2013 – 2015 Member of Board of Governors, IEEE Signal Processing Society
- 2011 – 2013 IEEE Signal Processing Society Fellow Committee
- 2001 – 2013 Scientific Advisory Board, Centre of Excellence, Helsinki University of Technology
- 2007 – 2012 IEEE Signal Processing Society Technical Comm. Theory and Methods

2007 - 2010 IEEE Signal Processing Society Awards Board
 2003 - 2004 Co-Editor-in-Chief EURASIP, SIGNAL PROCESSING Journal
 2002 - 2006 Editorial Board of IEEE Signal Processing Magazine
 1998 - 2004 IEEE Signal Processing Society Technical Comm. on Communications
 2000 - 2003 IEEE Signal Processing Society Sensor Array and Multichannel Technical Comm.
 1999 - 2002 Associate Editor, IEEE Transactions on Signal Processing
 2001 - 2003 International Advisory Board, Center for Person Kommunikation Aalborg University
 2001 - 2006 IEE Technical Advisory Panel Signal Processing Professional Network
 1996 - 1997 Director of Research, ArrayComm Inc. Santa Clara, CA
 1993 - 2005 Scientific Advisory Board, ArrayComm Inc., Santa Clara, CA
 1991 - Member of several international grant evaluation committees, e.g., ERC, NSF, DFG, etc.
 1991 - Member and Chair of numerous conference committees including General Chair SPAWC 2015, Technical Program Chair SPAWC 2007, ICASSP 2008, Guest editor of several Special Issues.

SUPERVISION

Table lists completed PhDs and post-docs as main supervisor, 17 are now university professors.

| Doctoral Degrees | | Post-docs | |
|-------------------------|-----------------------------------|------------------|---|
| 2021 | Aakash Arora (UL) | 2018/2020 | Steven Kisseleff (FAU Erlangen) |
| 2021 | Sajad Mehrizi (UL) | 2017/2019 | Mohammad Alaei (Isfahan Univ) |
| 2021 | Alireza Haqiqatnejad (UL) | 2017/2019 | Yang Yang (TU Darmstadt) |
| 2021 | Saeid Sedighi (UL) | 2016/2018 | Lei Lei (Linköping Univ) |
| 2020 | Sayed Hossein Dokhanchi (UL) | 2016/2018 | Thang X. Vu (Superlec, Paris) |
| 2018 | Alberto Mengali (ESA) | 2016/2018 | Abd El Rahman (Univ of Bourgogne) |
| 2017 | Girum Demisse (Facebook) | 2016/2018 | Yogesh Nijsure (Univ of Newcastle) |
| 2016 | Ahmad Gharanjik (Databourg) | 2016/2018 | Juan Duncan (UPC Barcelona) |
| 2016 | Hassan Afzal (Leica Geosystems) | 2015/2017 | Farbod Kayhan (Univ Surrey) |
| 2016 | Ashkan Kalantari (Ericsson) | 2015/2017 | Christos Tsinos (Univ of Patras) |
| 2015 | Maha Alodeh (Ericsson) | 2015/2017 | Mojtaba Soltanalian (UIC) |
| 2015 | Alejandro Bahnsen (EasySolutions) | 2015/2016 | Harri Pennanen (Oulu Univ) |
| 2015 | Kassem Al Ismaeil (Munich RE) | 2015/2017 | Stefano Andrenacci (SES) |
| 2015 | Roberto Piazza (Newtec) | 2014/2016 | Eva Lagunas (UPC) |
| 2014 | Shree Krishna Sharma (UL) | 2014/2016 | Nicolò Mazzali (ESA) |
| 2014 | Efthymios Tsakonas (Ernst&Young) | 2014/2016 | Michel Antunes (Perceive3D) |
| 2014 | Dimitrios Christopoulos (Newtec) | 2013/2015 | Sina Maleki (Ericsson) |
| 2013 | Simon Järmyr (Ericsson) | 2012/2014 | Aleksandar Stojanovic (Lux Admin) |
| 2012 | Frederic Garica (IEE S.A.) | 2012/2013 | Majid Butt (Qatar University) |
| 2011 | Emil Björnson (KTH) | 2012/2014 | Dzevdan Kapetanovic (Ericsson) |
| 2010 | Peter von Wrycza (Ericsson) | 2012 | Hani Mehrpouyan (California State Univ) |
| 2010 | Niklas Jaldén (Ericsson) | 2010/2011 | Panelis-Daniel Arapoglou (ESA) |
| 2009 | Svante Bergman (Ericsson) | 2009/2011 | Djamila Aouada (NCSU) |
| 2009 | Marc Mowler (Ericsson) | 2009/2011 | Symeon Chatzinotas (Univ. Surrey) |
| 2008 | Joel Grotz (SES S.A.) | 2008/2009 | Gan Zheng (Loughborough Univ.) |
| 2008 | Xi Zhang (McKinsey) | 2007/2009 | Yongming Huang (Southeast Univ.) |
| 2008 | Pandu Devarakota (Canon) | 2006/2008 | Bhavani Shankar (IISc) |
| 2007 | David Hammarwall (Ericsson) | 2004/2005 | Eduard Jorswieck (TU Dresden) |
| 2007 | Patrick Svedman (ZTE) | 2004/2005 | Tao Jiang (Macquarie) |
| 2006 | Joakim Jaldén (KTH) | 2003 | Daniel Palomar (HKUST) |
| 2005 | Cristoff Martin (Ericsson) | 2001/2002 | Andreas Jakobsson (Lund Univ.) |
| 2005 | Kai Yu (Chinese Academy) | 1999/2000 | Andras Mehes (Ericsson) |
| 2005 | Per Hyberg (Defense College) | 1997/1998 | Mikael Skoglund (KTH) |

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|------|-----------------------------|-----------|---------------------------------|
| 2003 | George Jöngren (Ericsson) | 1996/1997 | Lars Villemoes (Dolby) |
| 2003 | Göran Klang (Ericsson) | 1995/1996 | Eric Ström (Chalmers) |
| 2003 | Rickard Stridh (Defense HQ) | 1994 | Tönu Trump (Tallin Univ.) |
| 2002 | Björn Völcker (Google) | | |
| 2000 | Mats Bengtsson (KTH) | 1994 – | 20 Technical licentiate degrees |
| 1999 | David Astely (Ericsson) | | |
| 1998 | Martin Kristensson (Nokia) | | |
| 1997 | Bo Göransson (Ericsson) | | |
| 1997 | Per Zetterberg (FOI) | | |
| 1996 | Stefan Parkvall (Ericsson) | | |

OTHER

Publications (refereed), plenary/keynotes, and patents

| | | | |
|-------------------|----------|------------------|----|
| Journal papers | 275 | Book chapters | 25 |
| Conference papers | 520 | Patents, issued | 26 |
| Invited papers | 47 | Plenary/keynotes | 31 |
| Citations | > 31.000 | h-index | 88 |

Some major research projects

Principal investigator of some 40 major research projects.

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|-------------|----------|--|---|
| 2017 – 2022 | 2.5 MEUR | ERC, Advanced Grant | European research council |
| 2020 – 2021 | 150 kEUR | Demonstration of a Radar Enabled Platform, PoC | European research council |
| 2018 – 2020 | 790 kEUR | Proactive Edge Caching for Content Delivery Networks by Hybrid Satellite/Terrestrial Backhaul | FNR |
| 2016 – 2018 | 732 kEUR | 3D Action Recognition Using Refinement and Invariance Strategies for Reliable Surveillance | FNR |
| 2016 – 2018 | 413 kEUR | Integrated Wireless Information and Power Networks | FNR/FNRS, UCL, Belgium |
| 2014 – 2016 | 693 kEUR | Spectrum Management and Interference Mitigation Mitigation in Cognitive Radio Satellite Networks | FNR, SES partner |
| 2011 – 2013 | 671 kEUR | Cooperative and Cognitive Architectures for Satellite Networks | FNR, SES partner |
| 2014 – 2015 | 150 kEUR | Cooperative Infrastructure Redundant Positioning by Consumer Devices, PoC | European research council |
| 2009 – 2013 | 1.9 MEUR | ERC, Advanced Investigators Grant | European research council |
| 2006 – 2016 | 12 MEUR | Autonomic Complex Communication Networks, Signals and Systems | Swedish research council |
| 2000 – | 3.0 MEUR | European Projects | FP5/6/7, H2020, ICT, FET, ESA |
| 1992 – | 10 MEUR | Industrial research funding | Ericsson, Nokia, Telia Allgon, SES, IEE, ARTEC 3D, CETREL, etc. |