

# CURRICULUM VITAE

## Personal details

Name: Belahcen, Anouar  
Research ID: D-9287-2012  
ORCID: 0000-0003-2154-8692  
Date of birth: 08.08.1963  
Nationality: Finland  
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## Education and degrees completed

2004, Doctor of Technology, “*Magnetoleasticity, Magnetic Forces and Magnetostriction in Electrical Machines*”, HUT, Finland  
2000, Licentiate of Technology, “*Methods of Calculating the Magnetic Forces for Vibration and Noise Analysis in Electrical Machines*”, HUT, Finland  
1998, Master of Science in Technology, HUT, Finland  
1988, Licence es-science in physics, University Sidi Mohamed Ben Abdellah, Morocco  
1983, Baccalauréat Science-Mathématique, Lycée Moulay Seliman, Fés, Morocco  
2008, Docent: “Coupled problems and material modelling in electrical machines”, HUT, Finland

## Current position

2016 - , Tenured Professor, Aalto University, Finland  
2011 - , Part-time Invited Professor, Tallinn University of Technology, Estonia

## Previous work experience

2013-2016, Ass. Professor, Aalto University, Finland  
2015-2015, Invited Professor 3 months, ENSAM, France  
2010-2010, Invited Researcher 3 months, Lille University, France  
2008-2013, Teaching Researcher, HUT, Finland  
2005-2007, Senior Researcher, HUT, Finland  
2004-2005, Post-Doctoral researcher, HUT, Finland  
1998-2004, Research scientist, HUT, Finland  
1996-1997, Research assistant, Laboratory of Electromechanics, HUT, Finland  
1995-1996, Research Assistant, Laboratory of Corrosion and Material Chemistry, HUT, Finland  
1989-1990, Electrician, T.P.L.B sarl, France  
2000-2013, Par-time Teaching Tutor, HUT, Finland

## Personal research funding and grants

2019-2021, Industry PhD Project, ABB Oy, Switzerland, 170 190 €  
2019-2019, Industry Project, Trafotek Oy, Finland, 20 859 €  
2017-2018, Industry Project, Hyosung Heavy Industries Corporation, Korea, 112 000 €  
2016-2019, Post-Doc Research Grant (Floran Martin), Academy of Finland, 268 306 €  
2016-2019, Research Grand, Aalto Science Institute, Finland, 150 000 €  
2016-2019, Research Grant, Estonian Research Council, Estonia, 249 600 €,  
2015-2019, Research Grant, Academy of Finland, 346 202 €  
2015-2017, Research Grant, Finnish Funding Agency for Technology and Innovation, 93 000 €,  
2015-2017, Post-Doc Research Grant (Toomas Vaimann) Estonian Research Council, 76 125 €,  
2013-2016, Research Grant, Tallinn University of Technology, Estonia, 146 140 €  
2012-2015, Research Grant (shared), Archimedes Foundation, Estonia, 329 766 €  
2011-2011, Industry Project, Sandvik Mining and Construction Oy, Finland, 30 000 €,  
2010-2012, Research Grant, Academy of Finland, 297 000 €,  
2009-2010, Industry Project, Sandvik Mining and Construction Oy, Finland, 100 000 €

### Leadership and supervision experience

2014-2019, Supervision of 5 post-docs (T. Vaimann, A. Kallaste, F. Martin, A. Rassolkin, X. Ren)  
2008-2019, PI for 12 Industry and Research projects  
2004-2019, Project Manager of 6 Industry and Research projects  
1998-2004, Research staff in 3 Industry and Research projects  
2011-2019, Appointed Supervisor of 6 PhD theses, graduated and 8 PhD theses, ongoing. Appointed Co-supervisor of 8 PhD theses, graduated. Appointed Supervisor of 10 MSc theses, graduated.  
2015- , Director of the Master's Programme in Automation and Electrical Engineering  
2016- , Deputy Head of the Dept. of Elect. Eng. and Aut., Aalto University, Finland  
2017- , Deputy Head of the Committee for the Quality of Teaching, Aalto University, Finland

### Teaching experience

1998 - , Responsible teacher and teaching in 9 different course about numerical modelling, electrical machines and drives, electrical energy, magnetic materials, etc. on average 2 courses per semester.  
1998 - , short lectures (2 hours) in several MSc and PhD courses in Finland, China, Korea, and France.

### Experience of organizing scientific meetings

2015, Organizer of Special Session on Fault diagnostics in electrical machines, SDEMPED, Portugal  
2016, Organization of Special Session on Bearingless machines, ICEM, Switzerland  
2016, Organization and chair of Conference, EPNC, Finland

### Patents, inventions, awards and honors

Patents:

T. Pirinen, M. Huikkola, V. Uitto, A. Belahcen, T. Peussa, "Arrangements and methods in rock breaking", CA20142851922, CN104236762A, EP2811110A1, 2013-2014

K. Janson, A. Belahcen, A. Kallaste, T. Vaimann, "Permanent magnet reluctance motor", invention, P20140013, Estonia, 2014

Toomas Vaimann, Jan Sobra, Anouar Belahcen, Ants Kallaste, "Method for monitoring of the technical condition of the electrical machine", Utility model, U20180009, 2018.

Best paper awards in 5 conferences or symposium:

H. Tiimus, 2019; U. Aydin, 2016; S. B. Shah, 2014, 2013; J. Martinez, 2012

### Other key scientific or academic merits

Examiner or opponent in 21 PhD theses (France, Austria, Belgium, Denmark, Sweden, Norway, Estonia, Finland, India)

Member of 8 international evaluation committees for research funding (Austria, Slovenia, France, Belgium)

3 invited and Keynote speaker in international conferences (France, Austria, and Sweden)

Committee member for the evaluation of 1 HDR (France) and 1 Professor position (India)

### Memberships and positions of trust in scientific societies

Member of the editorial Board (reviewer or associate editor):

IEEE Trans. on Industrial Electronics, IEEE Trans. on Energy Conversion, IEEE Trans. on magnetics, IEEE Trans. on Dielectrics and Electrical Insulation, IET Electric Power Applications, IEMDC, ICEM, COMPUMAG, CEFC, EPNC

Chairman of poster and oral sessions in conferences:

COMPUMAG, CEFC, ICEM, EMF, ISEF, EPNC, SDEMPED

Member of the Steering Group or Board of Conferences:

EPNC, ICEM, CEFC, COMPUMAG, ICS

Anouar Belahcen