

## Math Bollen

Professor, Chaired Professor  
Luleå University of Technology

Research Area: [Electric Power Engineering](#)

Division: Energy Science

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Mathematics

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## ***Publications***

Conference paper

### **A LSTM-based deep learning method with application to voltage dip classification (2018)**

Balouji. E, Gu. I, Bollen. M, Bagheri. A, Nazari. M

Part of: Proceedings of International Conference on Harmonics and Quality of Power, ICHQP, Institute of Electrical and Electronics Engineers (IEEE), 2018

Article in journal

### **A Robust Transform-Domain Deep Convolutional Network for Voltage Dip Classification (2018)**

Bagheri. A, Gu. I, Bollen. M, Balouji. E

IEEE Transactions on Power Delivery, ISSN: 0885-8977

Conference paper

### **A stochastic study of harmonic voltage distortion considering single-phase photovoltaic inverters (2018)**

Schwanz. D, Busatto. T, Bollen. M, Larsson. A

Part of: Proceedings of International Conference on Harmonics and Quality of Power, ICHQP, Institute of Electrical and Electronics Engineers (IEEE), 2018

Conference paper

### **Big data from smart grids (2018)**

Bagheri. A, Bollen. M, Gu. I

Part of: 2017 IEEE PES Innovative Smart Grid Technologies Conference Europe, ISGT-Europe 2017, proceedings, Institute of Electrical and Electronics Engineers (IEEE), 2018

Conference paper

### **Characterizing three-phase unbalanced dips through the ellipse parameters of the space phasor model (2018)**

Bagheri. A, Bollen. M

Part of: 2017 IEEE PES Innovative Smart Grid Technologies Conference Europe, ISGT-Europe 2017, proceedings, Institute of Electrical and Electronics Engineers (IEEE), 2018

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PUBLISHED: 10 October 2007

UPDATED: 26 November 2016



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Gå med nu

**Math Bollen**professor Electric Power Engineering  
Göteborg, Sverige | Utbildningsadministration

Nuvarande Luleå University of Technology  
 Tidigare STRI AB, Energy Markets Inspectorate, Chalmers University of Technology  
 Utbildning Eindhoven University of Technology

500+  
kontakter

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**Andra har även besökt****Stefan Roxenborg****Pinaki Mitra**  
R&D Principal Engineer at ABB,  
Affiliated Faculty at KTH**Lennart Soder**  
Professor at KTH**Reza Baradar (Ph.D.)**  
Power System Analyst at Vattenfall  
Eldistribution AB**Harold Vera**  
Power Engineer, PhD (c)**Mohammad Reza Hesamzadeh**  
Associate Professor in Electricity  
Markets**Omar Kotb**  
Electrical Power Engineer, PhD.  
Seeking new opportunities.**Ahmad Karnaam**

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[Se mer](#)**Erfarenhet****professor in electric power engineering**Luleå University of Technology  
maj 2004 – nu (14 år 4 månader) | 931 87 Skellefteå, Sweden**R&D Manager, Power Systems**STRI AB  
oktober 2012 – oktober 2014 (2 år 1 månad) | Göteborg, Sverige**Technical expert**Energy Markets Inspectorate  
april 2010 – september 2012 (2 år 6 månader)**Technical manager, power quality and distributed generation**STRI AB  
november 2003 – april 2010 (6 år 6 månader) | Ludvika, Sverige**professor in electric power engineering**Chalmers University of Technology  
september 1996 – december 2003 (7 år 4 månader)

Teaching undergraduate and postgraduate courses on electric power systems. Setting up a research group with power quality as the central area, but also a lot of power electronics.

**Offentligt profilmärke**

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**Math Bollen**

professor Electric Power Engineering

Luleå University of Technology

TU/e Eindhoven University of Technology

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**Lecturer**

UMIST

juli 1993 – augusti 1996 (3 år 2 månader)

The start of my international academic career. Teaching undergraduate courses on electrical engineering and programming for mechanical engineers and post-graduate courses on the MSc program on electric power engineering.

Research mainly on voltage dips, which received a lot of attention from both industry and academics.

**post-doctoral researcher**

Eindhoven University of Technology

september 1989 – juni 1993 (3 år 10 månader)



After my PhD I started doing research on the design of industrial distribution networks. I concentrated on reliability of supply and discovered that so-called "voltage dips" were the main problem.

**guest researcher**

University Netherlands Antilles

september 1992 – december 1992 (4 månader)

A 3-month visit to this charming university on the island of Curacao, where I worked on reliability of island power systems,

**Utbildning****Eindhoven University of Technology**

PhD, Electric power engineering

1985 – 1989

Aktiviteter och föreningar: power system protection; travelling waves; transformer modelling; transmission-line modelling

**Eindhoven University of Technology**

MSc, Electrical Engineering

1978 – 1985

**Kompetenser och intyg**

[Gå med i LinkedIn för att se Maths kompetenser, intyg och fullständiga profil](#)

**Språk****Dutch****Swedish****Publikationer****Integration of Distributed Generation in the Power System**

IEEE Wiley

2011

Författare: Math Bollen, Fainan Hassan

**Static series compensator for voltage dip mitigation with zero-sequence injection capability**

Proceedings of 2003 IEEE Bologna PowerTech

juni 2003

Författare: Math Bollen, Cosmo Di Perna

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