

## PERSONAL INFORMATION

**Beleiu Horia Gheorghe**

📍 Dorobanților, 97, Cluj-Napoca, 400609, România

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**Date of birth** 29/10/1984 | **Nationality** Romanian

## WORK EXPERIENCE

2020 - present

**Associate Professor**

Technical University of Cluj-Napoca, str. Memorandumului nr. 28, 400114, Cluj-Napoca, România, [www.utcluj.ro](http://www.utcluj.ro)

- Teaching activities:
  - Power Quality
  - Technologies Used in Electrical and Electronic Systems
  - Computer Aided Graphics and Technical Drawing
  - Electrical Installations
- Research activities:
  - Director and member in research projects

**Type of business or sector** Education and research

2015 - 2020

**Lecturer**

Technical University of Cluj-Napoca, str. Memorandumului nr. 28, 400114, Cluj-Napoca, România, [www.utcluj.ro](http://www.utcluj.ro)

- Teaching activities:
  - Power Quality
  - Technologies Used in Electrical and Electronic Systems
  - Computer Aided Graphics and Technical Drawing
  - Electrical Installations
- Research activities:
  - Director and member in research projects

**Type of business or sector** Education and research

2011 - 2015

**Assistant Professor**

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- Teaching activities :
  - Power Quality
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  - Electrical Installations
- Research activities :
  - Director and member in research projects

**Type of business or sector** Education and research

## EDUCATION AND TRAINING

01.10.2008 - 29.11.2011

### Doctor in Electrical Engineering

Technical University of Cluj-Napoca

- Power Quality
- Electrical Engineering
- Computer Aided Graphics and Technical Drawing

2003 – 2008

### Bachelor's Degree in Electrical Engineering

Technical University of Cluj-Napoca

- Electric Power Systems
- Power Quality
- Electrical Installations
- End User
- Electricity Grids

## PERSONAL SKILLS AND COMPETENCES

Native language(s)

Romanian

Other languages

|         | UNDERSTANDING |         | SPEAKING     |             | WRITING |
|---------|---------------|---------|--------------|-------------|---------|
|         | Listening     | Reading | Conversation | Oral speech |         |
| English | B2            | B2      | B2           | B2          | B2      |
| French  | B1            | B1      | B1           | B1          | B1      |

Common European Framework of Reference for Languages

Communication skills

- Good communication skills, ability to work effectively in a team.
- A developed sense of responsibility and an organized way of working .

Organizational / managerial skills

- Project director in a research project won through the national competition ARUT
- Participation, as a member, in research teams in projects won through competition and with third parties
- Participation, as a member, in educational projects (responsible for a team of approx. 50 members)

Skills acquired in the workplace

- Good communication skills acquired through experience gained as a participant in national and international conferences

Computer skills

- Usage - advanced level (Microsoft Word, Excell, Calculux, DIALux, Autocad, Photoshop, CorelDraw, EDSA, Matlab, Mathcad)
- Programming - medium level (php programming, html, mysql, web administration)

Other competences

- Teaching mode

Driver's license

- B

## ADDITIONAL INFORMATION

### Publications

over 50 publications, of which 5 books and 24 articles in WOS (5 in journals), of which the most relevant 10 are:

1. **H.G. Beleiu**, V. Maier, S.G. Pavel, I. Birou, C.S. Pică, P.C. Dărab, Harmonics Consequences on Drive Systems with Induction Motor. Applied Sciences 2020, Vol. 10, Issue 4, pp. 1528, eISSN: 2076-3417, doi.org/10.3390/app10041528, WOS:000525287900335.
2. S.G. Pavel, V. Maier, C. Ciorca, **H.G. Beleiu**, I. Birou, Optimal Design of the Vertical Earthing with Electrodes Arranged in Line Applied Sciences 2020, Vol. 10, Issue 3, pp. 1177, eISSN: 2076-3417, doi.org/10.3390/app10031177, WOS:000525305900446.
3. **H.G. Beleiu**, V. Maier, S. G. Pavel, I. Birou and C. Pică, Synchronous Motor Behavior in Harmonics, 2019 54th International Universities Power Engineering Conference (UPEC), Bucharest, Romania, 2019, pp. 1-6. doi: 10.1109/UPEC.2019.8893511 [IEEE].
4. V. Maier, S.G. Pavel, **H.G. Beleiu** and V. Farcas, Aspects on Harmonics Analytical Identification of a Periodic Non-Sinusoidal Wave, 2019 8th International Conference on Modern Power Systems (MPS), Cluj Napoca, Romania, 2019, pp. 1-6 [IEEE].
5. **H.G. Beleiu**, I.N. Beleiu, S.G. Pavel, C.D. Dărab, Management of Power Quality Issues from an Economic Point of View, in SUSTAINABILITY, Volume: 10, Issue: 7, 2018, pp. 2326, eISSN: 2071-1050, doi.org/10.3390/su10072326, WOS:000440947600217.
6. **H.G. Beleiu**, P.C. Darab, C. Pica, S.G. Pavel, T. Coldea, Impact of Different Materials Electrodes in Earth Grounding Systems, in Acta Technica Napocensis Series-Applied Mathematics Mechanics and Engineering, Volume: 61, Issue: 1, 2018, pp: 65-68, ISSN: 1221-5872, WOS:000428903500011.
7. P.C. Darab, A. Turcu, C. Pica, S.G. Pavel, **H.G. Beleiu**, Reducing Earth Grounding Electrical Resistance by Using Metallurgy Industrial Waste as Backfill Materials, in Acta Technica Napocensis Series-Applied Mathematics Mechanics and Engineering, Volume: 61, Issue: 1, 2018, pp: 69-72, ISSN: 1221-5872, WOS:000428903500012.
8. **H.G. Beleiu**, S.G. Pavel, D Leşe. Asynchronous Motors Behavior under Harmonics. Acta Electrotehnica, Vol 53, nr. 4, 2011, [EBSCO].
9. **H.G. Beleiu**, V Maier, P.D. Muresan, H.A. Moldovan. Effects and methods of estimating power quality issues. Effects and methods of estimating power quality issues. Acta Electrotehnica, Vol 51, nr. 5, 2010, pp. 34-41, [EBSCO].
10. V. Maier, S. G. Pavel, **H.G. Beleiu**, C. Buda, Survey regarding additional indicators for voltage sags, 13th International Conference on Development and Application Systems, May 19-21, 2016 - Suceava, Romania, ISBN:978-1-5090-1993-9, WOS:000383222200017.

### Research projects

1. National Research Grants - ARUT: Consequences of Power Quality Issues for Electromechanical Receivers. GNaC 2018 ARUT, no. contract: 3092 / 05.02.2019. Period: 2019-2020. Grant value: 45000 lei. Project director: Dr. Horia G. BELEIU.
2. National projects: Holistic impact of renewable energy sources on the environment and climate, no. 31/208, PN-III-P1-1.2-PCCDI-2017-0404. HORESEC. Period: 2018-2020. The value of the project: 318120 lei. Director: Prof. Dr. Eng. Sorin G. Pavel.
3. Contracts with third parties: Analysis of electricity quality at producers. Case study MHC Baicu 1 and 2, Maramureş county, 110/20 kV substation substation Vişeu - F.D.E.E. Electrica Distribuție Transilvania Nord- Baia Mare Branch. Contract no. 35 / 26.04.2016. Period: 2016-2017. The value of the project: 24600 lei. Contract director: V. Maier.
4. Contracts with third parties: Methodology for measuring, analyzing and compensating voltage variations in RED belonging to Electrica Transilvania Nord. Contract no. 19169. Period: 2012-2013. The value of the project: 32205 lei. Contract director: Prof. Dr. Eng. Sorin Gheorghe PAVEL.
5. Contracts with third parties: Analysis of the technical quality of the voltage curve - case study - distributor LES BaiaMare 4-PA 7- PT Dieter Baia Mare. Contract no. 99 / 10.05.2011. Period: 2011-2012. The value of the project: 24552 lei. Contract director: Prof. Dr. Eng. Virgil MAIER.

### International professional associates

IEEE Member