




## PERSONAL INFORMATION



## Bogdan Constantin Neagu

 Bvd. Chimiei, no. 25, bl. E13., ap. 1, Iași, 700391, Romania

 +40-232-278683 – 1 159  +40-740-268024,

 [bogdan.neagu@tuiasi.ro](mailto:bogdan.neagu@tuiasi.ro); [bogd\\_neagu@yahoo.com](mailto:bogd_neagu@yahoo.com)

 [www.bogdan-neagu.ieeia.tuiasi.ro](http://www.bogdan-neagu.ieeia.tuiasi.ro)

Sex Masculin | Date of birth 04/07/2014 | Nationality romanian

## EXPERIENȚA PROFESIONALĂ

1.10.2014 – present

**Lecturer**

"Gheorghe Asachi" Technical University of Iasi, Faculty of Electrical Engineering, Power Department, Bvd. Prof. dr. doc. Dimitrie Mangeron no. 21-23, 700050, Iasi.

- Teaching the course and application classes on Transmission and Distribution of Electric Energy and Distribution Systems Planning Strategy.
- Student practice coordination.
- Dissertation and bachelor thesis coordination.
- Member of the bachelor and dissertation committee.
- Student research coordination.
- Academic research from grants, contracts and publications.

[Education, research.](#)

3.10.2011 - 30.09.2014

**Teaching Assistant**

"Gheorghe Asachi" Technical University of Iasi, Faculty of Electrical Engineering, Power Department, Bvd. Prof. dr. doc. Dimitrie Mangeron no. 21-23, 700050, Iasi.

- Teaching the application classes on Transmission and Distribution of Electric Energy, Distribution Systems Planning Strategy, Monitoring and diagnostics of electrical equipment, Electrical equipment, Energetic policies and strategies, Protection and automation integrated systems, Energy market and energy policies, Computer architecture.
- Student practice coordination.
- Bachelor thesis coordination.
- Member of the bachelor and dissertation committee.
- Student research coordination.
- Academic research from grants, contracts and publications

[Education, research.](#)

19.02.2009 - 2.10.2011

**University tutor (Junior Teaching Assistant)**

"Gheorghe Asachi" Technical University of Iasi, Faculty of Electrical Engineering, Power Department, Bvd. Prof. dr. doc. Dimitrie Mangeron no. 21-23, 700050, Iasi.

- Teaching the application classes on Transmission and Distribution of Electric Energy, Distribution Systems Planning Strategy, Monitoring and diagnostics of electrical equipment, Electrical equipment, and Modern management techniques.
- Student practice coordination.
- Member of the bachelor and dissertation committee.
- Student research coordination.
- Academic research from grants, contracts and publications

[Education, research.](#)

## EDUCATION AND TRAINING

2009 – 2013

**PhD in Electrical Engineering**

EQF 8 Level

Thesis Title: *Contributions on Structure and Steady-State Optimization of the Electric Energy Repartition and Distribution Systems*. "Gheorghe Asachi" Technical University of Iasi, Romania

The main research activities were aimed on:

- Smart metering implementation (a complex load management system for medium and low voltage distribution network and consumer level was proposed);
- the optimization of distribution networks configuration and steady-state using real information from SCADA systems or smart metering systems.

2008 – 2009 **Master of Science in Power System Management** EQF 7 Level

"Gheorghe Asachi" Technical University of Iasi, Faculty of Electrical Engineering, Power Department, Bvd. Prof. dr. doc. Dimitrie Mangeron no. 21-23, 700050, Iasi.

- Dissertation Title: Power flow optimization in power repartition and distribution systems.
- Studied courses: Energetic policies and strategies; Emissions reduction technologies; Quality, safety and environmental risk; Optimizing the operating strategy in the energy market, Security policies and labour strategies etc.

2003 – 2008 **Bachelor of Engineer in Power Engineering** EQF 7 Level

"Gheorghe Asachi" Technical University of Iasi, Faculty of Electrical Engineering, Power Department, Bvd. Prof. dr. doc. Dimitrie Mangeron no. 21-23, 700050, Iasi.

- Bachelor Title: Computer-aided analysis of power distribution networks steady-state.
- Studied courses: Transmission and distribution of electric energy; Power systems, Electrical measurement, Strategies and optimal decisions in energetic domain, Electrical equipment, Electrical power plant, Station and substation, Management etc.

1999 – 2003 **Baccalaureate degree**  
Scholar Group "Vasile Sav", Roman, jud. Neamț.

- Domain: Mathematics – Informatics.

**PERSONAL SKILLS**

Mother tongue(s) Romanian Language

Other language(s)

	KNOWLEDGE		SPEAKING		WRITING
	Listen	Read	Conversation	Oral discussion	
English Language	C1	B2	C1	C1	C1
French Language	B2	B2	B2	B2	B2

Levels: A1/2: Basic user - B1/2: Independent user - C1/2 Proficient user  
Common European Framework of Reference for Languages

**Communication skills**

- Good communication skills, sociability.
- Skills for team working coordination.
- Skills of adaptation to new.  
All these were acquired through personal experience in diverse membership research contracts.

**Organisational/ managerial skills**

- high capacity for innovation and creation;
- time, multiple tasks and budgets management;
- negotiation, objectivism, critical thinking, team spirit, responsibility, perseverance;  
All these were acquired through teaching experience in diverse membership research contracts.

- Job-related skills**
- increased capacity to assimilate of new knowledge;
  - skills of analysis and design of electric energy transmission and distribution;
  - performing reviews of scientific articles in international ISI journals or conferences ;
  - logic, accommodation with new equipment, innovation .
- Computer skills**
- Microsoft Windows și Office™ (Word, Excel, Power Point) – advanced level.
  - Programming Languages (C++, Matlab) – average level.
  - Specialized software for the steady state analysis of power systems (DIGSilent Power Factory, Neplan, EDSA) – advanced level.
  - Own software for the electricity transmission and distribution network analysis.
- Driving licence**
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## ADDITIONAL INFORMATION

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Please see the CV\_Neagu\_Annex\_EN

## Publications

Until now the scientific activity (as principal or co-author) is achieved through:

- 5 books in various technical dedicated publisher (co-author) and one online as sole author ([www.ee.tuiasi.ro/~bogdan.neagu](http://www.ee.tuiasi.ro/~bogdan.neagu)), such as for example:
  - **Neagu B.C.**, Grigoraș G., The Assessment of Power Quality in Electric Distribution Systems from Romania, Capitol in cartea "Advances in Energy Research", vol. 28, Nova Science Publishers, New York, United States of America, pp. 57-110, 2017, ISBN 978-1-53612-700-3.
  - **Neagu B.C.**, Analyze of Slow Voltage Variations in Electric Distribution Systems, Capitol in cartea "Clustering in Power Systems. Application", Editura Lambert Academic Publishing, GmbH & Co. KG, Germany, pp. 113-126, 2016, ISBN 978-3-330-01545-6.
- over 100 scientific papers published in international journals or conference proceedings, when 25 are ISI and over 60 BDI indexed, such as for example:
  - **Neagu. B. C.**, Grigoraș G., Scarlatache F.I., Schreiner C., Ciobanu R. C., Patterns Discovery of Load Curves Characteristics Using Clustering Based Data Mining, 11th IEEE International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG), Cadiz, Spain, 4- 6 apr, pp. 83-87, 2017, WOS:000406491800013, ISSN: 2166-9546, (ISI).
  - Grigoraș G., **Neagu. B. C.**, Scarlatache F.I., Smart metering based approach for phase balancing in low voltage distribution systems, 10th International Symposium on Advanced Topics in Electrical Engineering (ATEE), Bucharest, ROMANIA, 23 – 25 mar., 2017, pp. 555-558., doi: 10.1109/MPS.2017.7974387 (ISI).
  - **Neagu. B. C.**, Grigoraș G., Scarlatache F.I., Outliers Discovery from Smart Meters Data Using a Statistical Based Data Mining Approach, 10th International Symposium on Advanced Topics in Electrical Engineering (ATEE), Bucharest, ROMANIA, 23 – 25 mar., 2017, pp. 551-554., WOS:000403399400108, ISBN:978-1-5090-5160-1, ISSN: 1843-857 (ISI).
  - **Neagu B.C.**, Grigoraș G., Scarlatache F.I., Power Losses Estimation in Harmonic Polluted LV Distribution Networks with a Fuzzy Approach, 8th International Conference on Electronics Computers and Artificial Intelligence, Ploiesti, Romania, 30 jun - 02 jul, pp. 1-6, 2016, WOS:000402541200042, ISBN:978-1-5090-2047-8, ISSN: 2378-7147, (ISI).
  - **Neagu B.C.**, Georgescu G., Ivanov O., The impact of harmonic current flow on additional power losses in low voltage distribution networks, 9th International Conference and Exposition on Electrical and Power Engineering (EPE 2016), pp.719-722, Iași, România, 20-22 Oct. 2016, 10.1109/ICEPE.2016.7781433, WOS:000390706300143, ISBN:978-1-5090-6128-0, ISSN: 2471-6855 (ISI).
  - **Neagu B.C.**, Grigoraș Gh., Scarlatache F., The influence of harmonics on power losses in urban distribution networks, International Symposium on Fundamentals of Electrical Engineering (ISFEE 2016), pag. 1-4, București, România, 30 iunie - 2 iulie 2016, INSPEC Accession Number: 16563001
  - DOI: 10.1109/ISFEE.2016.7803184, WOS:000392434400036, ISBN:978-1-4673-9575-5, (ISI).
  - **Neagu B.C.**, Grigoraș Gh., Assessment of slow voltage variations from the electric distribution systems with fuzzy techniques, 7th International Conference on Electronics, Computers and Artificial Intelligence (ECAI 2015), pag. 61-66, București România, 25-27 iunie 2015, WOS:000370971100118, ISBN:978-1-4673-6647-2, ISSN: 2378-7147, (ISI).
  - Nicol B., Gavrilas M., Ivanov O., **Neagu B.C.**, Grigoras Gh., Synchrophasor measurement method for overhead line parameters estimation in MV distribution networks, Proc. of 2014 16th International Conference on Harmonics and Quality of Power (ICHQP), 2014, pp. 862-865, Bucharest, Romania, 25-28 May 2014, Article number 6842833, Category number CFP1447S-ART; Code 106304, ISSN: 15406008 (Scopus) DOI: 10.1109/ICHQP.2014.6842833 (IEEE Xplore) Accession Number: WOS:000343776100177, ISBN:978-1-4673-6487-4, ISSN: 2164-0610 (ISI).
  - **Neagu B.C.**, Georgescu Gh., Wind Farm Cable Route Optimization Using a Simple Approach, 8th International Conference and Exposition on Electrical and Power Engineering, EPE 2014, pag. 1004-1009, Iași, România, 16-18 October 2014, Article number 6970060, Category number CFP1447S-ART; Code 109547 (Scopus), DOI: 10.1109/ICEPE.2014.6970060, WOS:000353565300183 (ISI).
  - **Neagu B.C.**, Georgescu Gh., Aspects regarding the monitoring possibilities and steady-state analysis of electric energy repartition networks, 8th International Conference and Exposition on Electrical and Power Engineering, EPE 2014, pag. 1000-1003, Iași, România, 16-18 October 2014, Article number 6970059, Category number CFP1447S-ART; Code 109547 (Scopus), DOI: 10.1109/ICEPE.2014.6970059, WOS:000353565300182, (ISI).
  - Ivanov O., Gavrilas M., **Neagu B.C.**, Intelligent Monitoring and Control in Transmission and Distribution Networks, Proc. of 14th International Conference on Optimization of Electrical and Electronic Equipment OPTIM 2014, pag. 185-191, Brașov, România, 22-24 May 2014, Article number 6850918, Category number CFP1422D-ART; Code 106640 (Scopus) DOI: 10.1109/OPTIM.2014.6850918 (IEEE Xplore) Accession Number: WOS:000343551300027, ISBN:978-1-4799-5183-3 (ISI)
  - **Neagu B.C.**, Georgescu Gh., Elges A., Monitoring System of Electric Energy Consumption to Users, International Conference and Exposition on Electrical and Power Engineering (EPE), pag. 265-270, Iași, România, 25-27 October 2012, Article number 6463919, Category number CFP1247S-ART; Code 95870 (Scopus), DOI: 10.1109/ICEPE.2012.6463919 (IEEE Xplore), Accession Number: WOS:000324685300049, ISBN: 978-1-4673-1172-4 (ISI)
  - **Neagu B.C.**, Georgescu Gh., The Optimization of Reactive Power Sources Placement in Public Repartition and Distribution Systems for Power Quality Improvement, 13th Intern. Conf. on Optimization of Electrical and Electronic Equipment (OPTIM 2012), pag. 200-207, Iași, România, 24-26 May 2012, Article number 6231856, Category number CFP1222D-CDR; Code 91702 (Scopus), DOI: 10.1109/OPTIM.2012.6231856 (IEEE Xplore), WOS:000398866700030, ISSN: 1842-0133 (ISI).
  - **Neagu B.C.**, Grigoras G., An Efficient Metaheuristic Algorithm for Optimal Capacitor Allocation in Electric Distribution Networks, 2017 2nd International Conference on Software, Multimedia and Communicator Engineering (SMCE 2017), ISBN: 978-1-60595-458-5 10.12783/dtce/smce2017/12448, <http://www.dpi-proceedings.com/index.php/dtce/article/view/12448> (BDI).
  - Grigoras G., **Neagu B.C.**, Scarlatache F., Ciobanu R.C., Identification of pilot nodes for secondary voltage control using K-means clustering algorithm, IEEE 26th International Symposium on Industrial Electronics (ISIE), Edinburgh, United Kingdom, pp. 106-110, 2017, INSPEC Accession Number: 17096707, DOI: 10.1109/ISIE.2017.8001231, ISSN: 2163-5145, [ieeexplore.ieee.org/abstract/document/8001231/](http://ieeexplore.ieee.org/abstract/document/8001231/) (BDI).

12.12.2017

Neagu Bogdan Constantin