

Curriculum Vitae

Personal information

First name(s) / Surname(s) SZŐKE (N. BENK), ENIKŐ

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Fax(es)

E-mail eniko.szoke@emd.utcluj.ro

Nationality Hungarian

Date of birth 04.04.1972

Work experience

Dates October 1996 – present

Name and address of employer Technical University of Cluj – Napoca, str. Memorandumului nr. 28 – Cluj Napoca – Romania

Occupation or position held Lecturer

Main activities and responsibilities Control System Theory - course and laboratory applications; Real-Time Computer Systems – course
Management and assisted design of electrical systems - course

Education and training

Dates October 2006 – October 2014

Title of qualification awarded Doctor in Electrical Engineering, PhD Thesis,

Principal subjects/occupational skills Titlul: Implementation of vector control structure for speed sensorless induction machine with double field orientation

Name and type of organization providing education and training Technical University of Cluj – Napoca, str. Memorandumului nr. 28 – Cluj Napoca – Romania

Dates October 2001 – June 2003

Title-of-qualification-awarded Software Engineering

Principal subjects/occupational skills

Name and type of organization providing education and training Babeş-Bolyai University of Cluj-Napoca
Faculty of Mathematics and Computer Science

Dates October 1995 – June 1996

Title-of-qualification-awarded Post-graduate Study in 'Control of Energy-Efficient Electrical Drives'

Principal subjects/occupational skills

Name and type of organization providing education and training Technical University of Cluj – Napoca, str. Memorandumului nr. 28 – Cluj Napoca – Romania

Dates October 1990 – June 1995

Title-of-qualification-awarded Engineer (5 years), Speciality: Electrical Drives

Principal subjects/occupational skills

Name and type of organization providing education and training Technical University of Cluj – Napoca, str. Memorandumului nr. 28 – Cluj Napoca – Romania

Personal skills and competences

Mother tongue(s) Hungarian

Other language(s)

Self-assessment

European level (*)

English

German

Understanding		Speaking		Writing
Listening	Reading	Spoken interaction	Spoken production	
C1	C1	B2	B2	B1
B2	C1	B2	B2	B1

Didactic activity

Teaching Courses Control Systems Theory and Automation
Real-Time Computer Systems
Management and assisted design of electrical systems

Research

National Grants
(max 5 the most representative)

1. Research on the implementation of the vector control structure of dual field-oriented sensorless induction machine with adaptive rotor speed estimator. Project GNAT-ARUT 2023.
2. Development of an innovative electronic system for collecting renewable energy SEICER, MySMIS 156450, POC/1033/1/3.Period 2023.
3. Optimizing pulse modulation with current reaction to three-phase power electronic converters. Project GNAT-ARUT 2018.
4. Micro-inverters with high power density and high efficiency for renewable energy sources – MICROINV, Date de identificare: ID: P_40_391, MySMIS: 105616.

International Grants
(max 5 the most representative)

Significant papers published
in the last 10 years (max 10)

1. Enikő Benk Szőke, Cs. Szabó, Mária Imecs, I. I. Incze: „Double Field Oriented Sensorless Control of Cage Induction Motor”, 15th IEEE International Symposium on Computational Intelligence and Informatics, CINTI 2014, Location: Budapest, Date: NOV 19-21, 2014 , Pages: 403-408.
2. 4. Csaba Szabo, Eniko Szoke, Norbert Csaba Szekely, Vlad Zacharias “Current-Feedback Control at Constant Sampling Frequency Applied in Rotor-Field-Oriented Induction Machine Drives”, In Proc. of 12th International Conference On Electromechanical and Energy Systems, SIELMEN 2019, October 10 – 11, Chişinău, Republic of Moldova. BDI IEEEExplore
3. 5. Csaba Szabo, Eniko Szoke, Norbert Csaba Szekely, Vlad Zacharias, Maria Imecs: “Analysis of Current-Feedback PWM Procedures Based on Hysteresis and Current-Carrier-Wave Control for VSI-Fed Induction Motor Drive”, Aegean Conference on Electrical Machines and Power Electronics & Optimization of Electrical & Electronic Equipment Conference, ACEMP-OPTIM 2019 Joint Conference, Istanbul, Turkey, 27-29 August 2019, BDI IEEEExplore
4. Szabó Cs., Szőke Enikő, Imecs Maria, Incze I. I., Rus D. C.:”Vector Control Implementation for a Wound - Excited Synchronous Generator Considering the Damping Effect”, CNAE 2016, Octombrie 13-14, Acta Electrotehnica, Mediamira Science Publisher, Cluj Napoca, Romania, pp. 433-438, ISSN 2344-5637, ISSN-L 1841-3323.
5. Szabó Cs., **Szőke (n. Benk) Enikő**, Imecs Mária, Incze I.I.,: „*Analysis of Vectorial Compensation Procedures forV-Hz Controlled Asynchronous Motor Drives at LowSpeed*”, *Proceedings of XVIII. International Conference of Energetics and Electrical Engineering ENELKO 2017*. Oct. 12-15, Oradea, Romania, pp.107-112, ISSN 1842-4546.
6. Imecs Mária, Szabó Cs., Incze I.I., **Szőke (n. Benk) Enikő**: „*Vector Controlled Synchronous Generator Running with AC Load*”, *Proceedings of XVIIth International Conference of Technical Sciences, MTNE 2016*. Nov. 25-26, 2016, Cluj-Napoca, Romania, pp.103-114, ISSN 2393-1280, Published: 2017.

Cluj-Napoca,
Date: September 2024

Name and signature:
Szoke Eniko