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Personal data

Last name / First Name **BUCHMAN Attila**
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Web page <http://irh.inf.unideb.hu/user/buchman>
Nationality hungarian
Date of birth 1957.08.31.

Professional experience

Period	2010 —
Occupation / Position	Lecturer
Main activities and responsibilities	Education, Research
Name and address of employe	University of Debrecen, Faculty of Informatics, 4028, Debrecen, Kassai út 26..
Period	2001—2010
Occupation / Position	Lecturer
Main activities and responsibilities	Education, research
Name and address of employe	North University, 430083 Baia-Mare, str. Dr.Victor Babes, nr.62A, Romania
Period	1996 - 2001
Occupation / Position	System administrator
Main activities and responsibilities	Computer network maintenance
Name and address of employe	Intreprinderea pentru Prospectiuni si Explorari Geologice, Baia Mare, Romania
Period	1983 - 1996
Occupation / Position	Electronics engineer
Main activities and responsibilities	Computer and professional electronics systems maintenance
Name and address of employe	Intreprinderea pentru Intretinerea si Repararea Utilajelor de Calcul si Electronica Profesionala Bucuresti, Romania

Studies

Period 2002 - 2009
Education / Qualifications Ph.D.
Principal subjects / occupational skills Design of electronic data acquisition and signal processing systems
Name and type of organization providing education Technical University of Cluj - Napoca

Period 1978 - 1983
Education / Qualifications Electrical Engineer
Principal subjects / occupational skills Electronics and Telecommunication
Name and type of organization providing education Technical University of Cluj - Napoca

Personal skills and competences

Native language (and) **Hungarian**
Other languages **Romanian, English, French**

Social skills and competences Good communication skills and good compromise devising ability.
Computer skills and competences C, C++, regular use of numerous user-level software
Driving license (s) B category

Additional information

Member of the editorial board of Carpathian Journal of Electronic and Computer Engineering
Member of the program comitee of International Symposium for Design and Technology in Electronic Packaging conference (IEEE)
Member of IEEE Circuits and Systems Society

The most important publications in the past 5 years:

Lung, C., Sabou, S., **Buchman, A.**, *Modelling and implementation of intelligent sensor networks with applications in emergency situations management*, IEEE 21th International Symposium for Design and Technology in Electronic Packaging (SIITME), 2015, p. 315-318

Attila Buchman, Erdei Attila, Claudiu Lung: *Indoor localisation method based on existing WLAN infrastructure: A correlation based approach* – International Symposium for Design and Technology of Electronic Packages, SIITME 2014, 20th Edition, Bucharest, Romania, October 23-26, 2014, p.183-186, ©2014 IEEE.

Attila Buchman, Claudiu Lung: *On the relationship between received signal strength and received signal strength index of IEEE 802.11 compatible radio transceivers* - Carpathian Journal of Electronic and Computer Engineering, North University Baia Mare, 2013, vol 6, nr.2, p. 15-20.

Attila Buchman, *An Overview of Hardware Platforms Used In Wireless Sensor Nodes*, Carpathian Journal of Electronic and Computer Engineerig, vol. 4, 2011, pp.19-22.

Tisan, A., Cirstea, M., **Buchman, A.**, Perera, A., Oniga, S., Ilea, D., *Holistic Modeling, Design and Optimal Digital Control of a Combined Renewable Power System*, IEEE International Symposium on Industrial Electronics, ISIE 2010, Bari, Italy, 4-7 july, 2010.

Buchman, A., Lung, C., Horgos, M., Tisa, A., Oniga, S., *Evaluation of Load Generated Harmonics on Low Voltage Networks* WSEAS International Conference on Energy and Environment Technologies and Equipment, Bucuresti, Romania, 2010, April 19-22, pp. 46-50.

Buchman, A., Lungu, S., Oniga, St., Tisan, A., *Data Acquisition System for Audio Frequency Echo Detection*, International Symposium for Design and Technology of Electronic Packaging- SIITME 2008, September 18-21 Predeal, Romania, pp.291-295

Nasui, V., **Buchman, A.**, *Implementation of a high resolution velocity sensor using an optical quadrature shaft encoder for electromechanical linear actuators*, Advanced Topics in Optoelectronics, Microelectronics, and Nanotechnologies IV, 28-31 august, Constanta, Romania

Buchman, A., Lungu, S., Oniga, St., Tisan, A., *Ultrasonic Echo Detection: Experiments Using Large Beam Angle Transducers in Narrow Tubes*, International Spring Seminar on Electronics Technology, ISSE 2008, Budapest, Hungary, May 7-11, 2008, pp 111-116

Buchman, A., Tisan, A., Oniga, S., *Ultrasonic Data Acquisition: Signal to Noise Ratio Improvement*, 30th International Spring Seminar on Electronics Technology, ISSE 2007. Technical University of Cluj-Napoca, ROMANIA, May 9-13, 2007

Buchman, A., Lung, C., Horgos, M., Tisa, A., Oniga, S., *Evaluation of Load Generated Harmonics on Low Voltage Networks* WSEAS International Conference on Energy and Environment Technologies and Equipment, Bucuresti, Romania, 2010, April 19-22, pp. 46-50

Petrean, L.E., Peter, D.C., Horgos, M., **Buchmann, A.**, Petrean, L., *Some aspects regarding harmonic's distortions propagation in large medium voltage distribution system* WSEAS International Conference on Power Systems SEP 03-05, 2009, Budapest

Alin TISAN, Stefan ONIGA, Daniel MIC, **Atila BUCHMAN** – *Digital Implementation of The Sigmoid Function for FPGA Circuits*, Acta Technica Napocensis Electronics and Telecommunications, Vol 50, no. 2, 2009, pp.15-20