Thu Hang Bui

Data nașterii: 16/06/1987 | **Cetățenie:** vietnameză | **Număr de telefon:** (+40) 0752478167 (Număr de telefon mobil) | **E-mail:** buithuhang1987@gmail.com |

Adresă: Strada Fabricii de Cărămidă 14, 400228, Cluj-Napoca, România (Acasă)

EXPERIENȚA PROFESIONALĂ

09/2020 – ÎN CURS Cluj-Napoca, România
CADRU DIDACTIC ASOCIAT UNIVERSITATEA BABES BOLYAI

01/2019 – 05/2019 Hanoi, Vietnam
LECTOR FAC. OF ELECTS. AND TELECOMS., UNI. OF ENG. AND TECH

2014 – 2018 Delft, Țările de Jos
CERCETATOR TU DELFT

2011 – 2014 Hanoi, Vietnam
ASISTENT UNIVERSITAR FAC. OF ELECTS. AND TELECOMS., UNI. OF ENG. AND TECH.

EDUCAȚIE ȘI FORMARE PROFESIONALĂ

2014 – 2018 Delft, Țările de Jos
PHD MICROELECTRONICA TU Delft

2011 – 2013 Hanoi, Vietnam
M.ENG. ELECTRONICA SI TELECOMUNICATII Fac. of Elects. and Telecoms., Uni. of Eng. and Tech.

09/2010 – 12/2010 Gwangju, Coreea de Sud
GIST SCHOLARSHIP Gwangju Institute of Science and Technology

2005 – 2010 Hanoi, Vietnam
B.ENG. ELECTRONICA SI TELECOMUNICATII Fac. Elects. and Telecoms., Hanoi Uni. of Sci. and Tech.

COMPETENȚE LINGVISTICE

Limbă(i) maternă(e): **VIETNAMEZĂ**

Altă limbă (Alte limbi):

	COMPREHENSIUNE		VORBIT		SCRIS
	Comprehensiune orală	Citit	Exprimare scrisă	Conversație	
ROMANA	B1	B1	B1	B1	B1
ENGLEZA	C1	C1	C1	C1	

Niveluri: A1 și A2 Utilizator de bază B1 și B2 Utilizator independent C1 și C2 Utilizator experimentat

COMPETENȚE DIGITALE

Competențe digitale – Rezultatele testelor

Educația în domeniul informației și al datelor	**NIVEL AVANSAT**	Nivelul 5 / 6
Comunicare și colaborare	**NIVEL AVANSAT**	Nivelul 5 / 6
Crearea de conținut digital	**NIVEL AVANSAT**	Nivelul 5 / 6
Siguranță	**NIVEL INTERMEDIAR**	Nivelul 4 / 6
Soluționarea problemelor	**NIVEL AVANSAT**	Nivelul 5 / 6

Rezultatele autoevaluării self-assessment bazate pe Cadrul european al competențelor digitale 2.1

INFORMAȚII SUPLIMENTARE

PUBLICAȚII

Attenuation Coefficient for Surface Acoustic Waves in Fluid Region – 2012
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Bui Thu Hang, Bui Duc Tung, Nguyen Tien Dat and Chu Duc Trinh

Three-axis piezoresistive accelerometer with adjustable axial resolutions – 2012
Vietnam Journal of Mechanics, ISSN: 0866 7136, vol. 34, no. 1, pp. 45-54, 2012

Bui Thu Hang, Tran Duc Tan and Chu Duc Trinh,

An optimization of IDTs for surface acoustic wave sensor – 2015
Int. J. Nanotechnology, 2015 Vol.12, No.5/6/7, pp.485 – 495, ISBN: 1475-7435

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Microfluidic Injector Simulation with F-SAW Sensor for 3D Integration – 2015
IEEE Trans. on Instrumentation & Measurement, Vol. 64, No. 4, pp. 849 - 856, Apr. 2015. DOI: 10.1109/TIM.2014.2366975, ISSN: 0018-9456

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A mixing surface acoustic wave device for liquid sensing applications: Design, simulation, and analysis
Journal of Applied Physics, 120, 074504 (2016), DOI: http://dx.doi.org/10.1063/1.4961214

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Liquid Identification by a Micro-electro-mechanical Interdigital Transducer – 2017
Analyst, 2017, DOI: http://dx.doi.org/10.1039/c6an01804a

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Effect of Droplet Shrinking on Surface Acoustic Wave Response in Microfluidic Applications – 2017
Applied Surface Science, 2017, DOI: https://doi.org/10.1016/j.apsusc.2017.07.140

ThuHang Bui, V. Nguyen, S. Vollebregt, B. Morana, H. van Zeijl, T. Chu Duc, and Pasqualina M. Sarro

Design and Numerical Study on a Microfluidic System for Circulating Tumor Cells Separation From Whole Blood Using Magnetophoresis and Dielectrophoresis Techniques
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Biochemical Engineering Journal, 7/2022. DOI: https://doi.org/10.1016/j.bej.2022.108551

B.A. Hoang, H. Tran T., T.H. Nguyen, N.T. Pham, T.H. Bui, H.N. Nguyen, T.T. Bui, D.T. Chu, Q.L. Do

Development of a wireless passive capacitively coupled contactless conductivity detection (WPC4D) for fluidic flow detection utilizing 3D printing and PCB technologies

Instrumentation Science & Technology, 2/2023. DOI: https://doi.org/10.1080/10739149.2023.2182791

Bao-Anh Hoang, Van-Anh Bui,Kien Do Trung, Hang Bui Thu,Trinh Chu Duc,Tung Thanh Bui, Loc Do Quang

Design and analysis of a novel complex impedance sensing approach for fluidic flow detection utilizing the C4D technique

Modelling and Simulation in Materials Science and Engineering, 2023

Bao-Anh Hoang, Van-Anh Bui,Kien Do Trung, Hang Bui Thu,Trinh Chu Duc,Tung Thanh Bui &Loc Do Quang

Numerical calculation and analysis of a novel complex impedance sensing approach for in-flow droplet detection utilizing the C4D technique

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NVPhu, HB Anh ,TT Hang, NT Hang, BT Hang, and DQ Loc

Numerical analysis of dielectrophoresis-based microfluidic chip with a facing-electrode design for cell separation

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Journal of Biosystems Engineering,

M. C. Nguyen; H. T. Nguyen; YV. Tran ; N. T. Vu; T.H. Bui; D.T. Chu; T. T. Bui; C.-P. Jen; Q. L. Do

CONFERINȚE ȘI SEMINARE

2014 – Japan

Focused surface acoustic wave devices for pressure sensing at inkjet nozzle 8th Interantional Symposium on Organic Molecular Electronics (ISOME 2014)

2012 – Hanoi, Vietnam

R-SAW Analysis on Single-Crystal AlN Substrate for Liquid Sensors Proceedings of ICEMA 2012, August 16-17, 2012, Hanoi, ISBN: 978-604-913-097-7, pp. 13-18

2012 – Taiwan

3-D Finite Element Modeling of SAW sensing system for liquids IEEE/ASME Int. Conf. on Advanced Intelligent Mechatronics 2012, Kaohsiung, Taiwan, July 11-14, pp. 782 – 787, ISSN: 2159-6247, Print ISBN: 978-1-4673-2575-

2013 – USA

Multilayer SAW device for flow rate sensing in a microfluidic channe IEEE-Sensors2013, Maryland, USA, November 3-6, pp. 487-490, ISBN: 978-1-4673-4642-9/13

2013 – Vietnam

An optimization of IDTs for surface acoustic wave sensor Proceedings of IWNA 2013, November 14-16, 2013, Vung Tau, Vietnam, pp. 159-162

2014

Microfluidic Injector Simulation with SAW Sensor for 3D Integration IEEE-Sensors Applications Symposium 2014, Queenstown, New Zealand, February 18-20, pp. 213-218, ISBN: 978-1-4799-2179-9/14

2014 – Vietnam

Effect of the focused surface acoustic wave devices on the microfluidic channel Proceedings of ICEMA 2014, pp.221-225

2014 – Valencia, Spanish

Associated IDTs in Surface Acoustic Wave Devices for Closed-loop Control Inkjet System IEEE-Sensors2014, Spanish, Nov. 3-5, pp. 1936-1939, ISBN: 978-1-4799-0162-3/14

2015 – Korea

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A novel mixing surface acoustic wave device for liquid sensing application 2016 IEEE 29th International Conference on Micro Electro Mechanical Systems (IEEE MEMS), China, ISBN: 978-1-5090-1973-1/16.

2016 – USA
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2022
A combination of dielectrophoresis and magnetophoresis for microfluidic separation of circulating tumor cells from whole blood ICERA2022 (5th International Conference on Engineering and Research Application)

2023 – Romania
Assessment of cracks in beams using changes in the measured frequencies and Particle Swarm Optimization Vibroengineering Procedia, 20/10/2023 https://doi.org/10.21595/vp.2023.23684