



Curriculum vitae Europass



Personal information

First names / Surname **Lucian Mircea Sasu**
Address Braşov, Romania
E-mail imsasu@unitbv.ro
Nationality Romanian
Date of birth
Gender Male

Profile and aims

I am a Professor of Mathematics and Computer Science at Transilvania University of Braşov, Romania. My expertise lies in Machine Learning, Deep Learning, and I actively pursue R&D in AI and optimization.
<https://www.linkedin.com/in/lucian-sasu>

Work experience

Dates	August 2024 – at present
Occupation or position held	Research engineer
Main activities and responsibilities	Conception, design, development, testing, implementation and development of IT systems, software development and related technical documentation for SISW applications.
Name and address of employer	SIEMENS INDUSTRY SOFTWARE S.R.L., Braşov, Bld. Gării, no. 13A, Nine Building
Dates	2015- at present
Occupation or position held	Associate professor
Main activities and responsibilities	Courses held: <i>Artificial Intelligence, Machine learning, Introduction to Data Science, Advanced Programming Techniques, Patterns of enterprise applications architecture</i> Research: <i>artificial neural networks, computational intelligence, deep and shallow models</i>
Name and address of employer	Transilvania University of Braşov, Faculty of Mathematics and Computer Science, Department of Mathematics and Computer Science
Dates	Oct 2019-Nov 2021
Occupation or position held	Machine learning senior engineer
Main activities and responsibilities	Adapt and integrate DL models for image recognition and object detection
Primary technologies used	Python, PyTorch
Name and address of employer	Fotonation Romania - now part of XPERI Corporation
Dates	July 2012 – December 2018
Occupation or position held	Research engineer
Main activities and responsibilities	Research and development in European funded grants, prototype development, technical advisor for Siemens Mindsphere project (https://siemens.mindsphere.io/)
Primary technologies used	Python, TensorFlow, Spark, Java, .NET Framework
Name and address of employer	Siemens SRL Romania, Corporate Technology

Dates	2005- 2015		
Occupation or position held	Lecturer		
Main activities and responsibilities	Courses held: <i>Artificial Intelligence, Computational Intelligence, Introduction to Data Mining, Advanced Programming Techniques, Enterprise software architecture</i> Research: <i>artificial neural networks, data mining</i>		
Name and address of employer	Transilvania University of Braşov, Faculty of Mathematics and Computer Science, Department of Mathematics and Computer Science		
Dates	January 2007 – September 2007		
Occupation or position held	Software developer		
Main activities and responsibilities	Creating Microsoft-based web sites and applications, enterprise applications architecting, adding new functionalities and improving legacy applications, application integration		
Primary technologies used	.NET Framework, SQL Server, XML, JavaScript		
Name and address of employer	Dynamic Ventures, Olteţ Street no. 9, 500152 Braşov, http://www.dyve.com		
Dates	2000-2005		
Occupation or position held	Teacher assistant		
Main activities and responsibilities	Teaching, research		
Name and address of employer	Transilvania University of Braşov, Faculty of Mathematics and Computer Science, Department of Computer Science		
Education and training			
Dates	2000-2006		
Title of qualification awarded	Ph.D. degree in Computer Science		
Principal subjects/occupational skills covered	Artificial neural networks for data mining		
Name and type of organisation providing education and training	Transilvania University of Braşov, Faculty of Electrical Engineering and Computer Science		
Dates	2000-2001		
Title of qualification awarded	Ms.C.: „Algorithms and software products”		
Principal subjects/occupational skills covered	Algorithms, software techniques, approximation algorithms		
Name and type of organisation providing education and training	Transilvania University of Braşov, Faculty of Mathematics and Computer Science		
Dates	1996-2000		
Title of qualification awarded	B.Sc. in Informatics		
Principal subjects/occupational skills covered	Algorithms, databases, programming languages, software development		
Name and type of organisation providing education and training	Transilvania University of Braşov, Faculty of Sciences (now Faculty of Mathematics and Computer Science)		
Personal skills and competences			
Mother tongue	Romanian		
Other languages			
Self-assessment	Understanding	Speaking	Writing

<i>European level (*)</i>	Listening		Reading		Spoken interaction		Spoken production		
English		B2		C2		B2		C1	C1
French		B1		B1		B1		B1	B1

(*) [*Common European Framework of Reference for Languages*](#)

Organisational skills and competences	Responsible with maintaining the relationship between Faculty of Mathematics and Computer Science and economical partners (companies and technical communities); main organizer of multiple technical presentations held by IT companies in our faculty; mentoring teams of students for Microsoft "Imagine Cup" competitions, supervising students' activity for B.Sc./M.Sc. thesis or scientific communications.
Driving licence	Category B

L. M. Sasu and S. M. Grigorescu, "CyberDet: Real-time Adversarial Attacks Detection for Autonomous Robots and Self-driving Cars," *2025 IEEE Intelligent Vehicles Symposium (IV)*, Cluj-Napoca, Romania, 2025, pp. 1935-1941, doi: 10.1109/IV64158.2025.11097424.

Alexandru Paler, Lucian M. Sasu, Adrian-Cătălin Florea, and Răzvan Andonie. 2022. Machine Learning Optimization of Quantum Circuit Layouts. *ACM Transactions on Quantum Computing*, Machine Learning Optimization of Quantum Circuit Layouts, ACM Transactions on Quantum Computing, <https://doi.org/10.1145/3565271>, accepted for publication in September 2022

Andrei-Timotei Ardelean, Lucian Mircea Sasu, *Pose Manipulation with Identity Preservation*, Vol. 15 No. 2 (2020): International Journal of Computers Communications & Control (April)

Lorentz I., Andonie R., Sasu L., *Parallel Bayesian ARTMAP and Its OpenCL Implementation*, Neural Processing Letters 47 (2), DOI 10.1007/s11063-017-9663-x.

Galmeanu H., Sasu L., Andonie R., *Incremental and Decremental SVM for Regression*, International Journal of Computers, Communications & Control, 11, 2016, pp. 755-775, ISSN 1841-9836.

Sasu L., Puiu D., Nechifor S., *Fault recovery mechanism for smart city environments*, IEEE 20th Jubilee International Conference on Intelligent Engineering Systems (INES), pp. 57-62, 2016

Iacob A., Itu L., Sasu L., Moldoveanu F., Suciu C., *GPU accelerated information retrieval using Bloom filters*, 19th International Conference on System Theory, Control and Computing (ICSTCC), pp. 872-876, 2015

Nechifor S., Târnaucă B., Sasu L., Puiu D., Petrescu A., Teutsch J., Waterfeld W., Moldoveanu F., *Autonomic monitoring approach based on CEP and ML for logistic of sensitive goods*, 18th International Conference on Intelligent Engineering Systems (INES), 2014

Popescu M.C., Sasu L.M., *Feature extraction, feature selection and machine learning for image classification: A case study*, International Conference on Optimization of Electrical and Electronic Equipment (OPTIM), 2014

Andonie R., Fabry-Asztalos L., Sasu L.M., *Bayesian ARTMAP prediction of biological activities for potential HIV-1 protease inhibitors using a small molecular dataset*, IEEE Conference on Computational Intelligence in Bioinformatics and Computational Biology, 2014

Sasu L., Andonie R., *Bayesian ARTMAP for Regression*, Neural Networks, 46, 2013, 23-31.

Sasu L., Andonie R. Function, *Approximation with ARTMAP Architectures*, International Journal of Computers, Communications & Control, 7, 2012, 957-967, ISSN 1841-9836.

Sasu L., *A Probabilistic Model for Spelling Correction*, Bulletin of the Transilvania University of Brasov. Mathematics, Informatics, Physics. Series III, vol 4 (2), 141-146, 2011

Sasu L., *Fuzzy Artmap for Credit Scoring*, Bulletin of the Transilvania University of Brasov, Mathematics, Informatics, Physics. Series III, 3, 199-208, 2010

Andonie R., Sasu L., Cataron A., *A Novel Fuzzy ARTMAP Architecture with Adaptive Feature Weights based on Onicescu's Informational Energy*, International Journal of Computers, Communications & Control, 4, 2009, 104-117, ISSN 1841-9836.

Andonie R., Cataron A., Sasu L.M., *Fuzzy ARTMAP with feature weighting*, Proceedings of the IASTED International Conference on Artificial Intelligence and Applications (AIA 2008), 2008

Andonie R., Sasu L., *Fuzzy ARTMAP with input relevances*, IEEE Trans. Neural Networks, 17(4), pp. 929-941, 2006

Published books	<p>Sasu L., <i>Introduction to C#</i> (in Romanian), Transilvania University Publishing House, 2009</p> <p>Florea I., Sasu L., <i>Computer networks Fundamental concepts</i> (in Romanian), Transilvania University Publishing House, 2004</p> <p>R. Andonie, A. Cațaron, H. Gâlmeanu, M. Ivanovici, L. Sasu, "Algorithms and Data Structures for Imaging and Bioinformatics – course notes" (in Romanian), Transilvania University Publishing House, 978-606-19-0206-4, 2013</p> <p>R. Andonie, A. Cațaron, Z. Gaspar, H. Gâlmeanu, M. Ivanovici, I. Lorentz, L. Sasu, " Algorithms and Data Structures. Applications in Imaging and Bioinformatics", Transilvania University Publishing House, 978-606-19-0058-9, 2012</p>
Brevets	<p>Târnaucă Bogdan-Sorin, Sasu Lucian-Mircea, Puiu Dan, Nechifor Cosmin-Septimiu, "Method for Providing a Searchable Data Base of Models Describing Technical Processes", registered at Espacenet, EP3264338 (A1) — 2018-01-03, https://worldwide.espacenet.com/publicationDetails/biblio?DB=EPODOC&II=0&ND=3&adjacent=true&locale=en_EP&FT=D&date=20180103&CC=EP&NR=3264338A1&KC=A1</p> <p>Fishkin Alexey, Pfeifer Uwe, Roshchin Mikhail, Sasu Lucian-Mircea, Soler Garrido Josep, "Mobile Sound Analysis Based on Deep Learning", registered at Espacenet, WO2020147928 (A1) — 2020-07-23, https://worldwide.espacenet.com/publicationDetails/biblio?II=0&ND=3&adjacent=true&locale=en_EP&FT=D&date=20200723&CC=WO&NR=2020147928A1&KC=A1</p>