

# Curriculum Vitae

## Anamaria VIZITIU

anamaria.vizitiu@unitbv.ro

### Experiență profesională

07/2014 - Prezent	<b>R&amp;D Software Engineer</b> <b>Siemens Corporate Technology, Brașov, România</b>
05/2017-08/2017	R&D Software Engineer Intern Siemens Medical Solutions USA, Inc., Princeton, NJ, USA
02/2016-06/2016	R&D Software Engineer Intern Siemens Corporate Research, Erlangen, Germany
07/2012 - 07/2014	Software Developer Intern Siemens Corporate Technology, Brașov, România
03/2013-04/2012	Software Developer Intern Spectralmind, Viena, Austria

### Educație

2016–2020	<b>Doctorat în Ingineria Sistemelor</b> <b>Universitatea Transilvania din Brașov, România.</b>
2014–2016	Master în Sisteme Avansate în Automatică și Tehnologii Informatică Universitatea Transilvania din Brașov, România.
2010–2014	Licență în Automatică și Informatică Aplicată Universitatea Transilvania din Brașov, România.

### Competențe

Limbi străine	Engleză (Fluent), Maghiară (Începător)
Limbaje de programare	Python, C/C++, Matlab, HTML, CSS
Pachete software	MS Office, LaTeX, revision control software (SVN, git), instrumente machine learning (scikit-learn, Tensorflow, Keras), instrumente computer vision (scikit-image, OpenCV)

### Domenii de Interes

■ Machine Learning ■ Deep Learning ■ Procesarea Imaginilor ■ Imagistica Medicală

## Publicații

- **Vizitiu, A.**, Niță, C.I., Puiu, A., Suciu, C., Itu, L.M., Applying Deep Neural Networks Over Homomorphic Encrypted Medical Data, Computational and Mathematical Methods in Medicine, Vol. 2020, Hindawi, 2020.
- **Vizitiu, A.**, Niță, C.I., Puiu, A., Suciu, C., Itu, L.M., Towards Privacy-Preserving Deep Learning based Medical Imaging Applications, 14th IEEE Inter. Symp. on Medical Measurements and Applications - MeMeA 2019, Istanbul, Turkey, 26-28 June 2019, pp. 1-6.
- **Vizitiu, A.**, Itu, L.M., Nita, C., Suciu, C. Optimized three-dimensional stencil computation on Fermi and Kepler GPUs. 2014 IEEE High Performance Extreme Computing Conference (HPEC), Avenue Waltham, MA, 11-14 September 2014, pp. 1-6
- **Vizitiu, A.**, Itu, L.M., Joyseeree, R., Depeursinge, A., Müller, H., Suciu, C. GPU-Accelerated Texture Analysis Using Steerable Riesz Wavelets. 2016 24th Euromicro International Conference on Parallel, Distributed, and Network-Based Processing (PDP), Heraklion, Greece, 17-19Feb. 2016, pp 431-434.
- **Vizitiu, A.**, Nita, IC., Puiu, A., Suciu, C., Itu, L. Privacy-Preserving Artificial Intelligence: Application to Precision Medicine. 2019 41st Inter. Conf. of the IEEE Engineering in Medicine & Biology Society - EMBC 2019, Berlin, Germany, 23-27 July 2019, pp. 6498-6504.
- **Vizitiu, A.**, Puiu, A. Reangamornrat, S., Itu, L. Data-Driven Adversarial Learning for Sinogram-Based Iterative Low-Dose CT Image Reconstruction, 23th Inter. Conf. on System Theory, Control and Computing - ICSTCC 2019, Sinaia, Romania, 9-11 Oct. 2019, pp. 668-674.
- **Vizitiu, A.**, Itu, L.M., Lazar, L., & Suciu, C. (2014). Double precision stencil computations on Kepler GPUs. 2014 18th International Conference on System Theory, Control and Computing (ICSTCC), Sinaia, Romania, 17-19 Oct. 2014, pp. 123-127.
- Danu, M.D, Niță, C.I., **Vizitiu, A.**, Suciu, C., Itu, L. Deep Learning based Generation of Synthetic Blood Vessel Surfaces, 23th Inter. Conf. on System Theory, Control and Computing - ICSTCC 2019, Sinaia, Romania, 9-11 Oct. 2019, pp. 662-667.
- Ciușdel, C., **Vizitiu, A.**, Moldoveanu, F., Suciu, C., Itu, L.M., Towards Real Time Deep Learning based Estimation of Fracture Risk in Osteoporosis Patients, 40th Inter. Conf. on Telecommunications and Signal Processing - TSP 2017, Barcelona, Spain, 5-7 July 2017, pp. 68-73.
- Ciușdel, C., **Vizitiu, A.**, Moldoveanu, F., Suciu, C., Itu, L.M. Towards Real Time Machine Learning based Estimation of Fracture Risk in Osteoporosis Patients, Joint Inter. Conf. OPTIM-ACEMP, Brașov, Romania, 25-27 May 2017, pp. 101-106.
- Suciu, C., Itu, L.M., Nita, C., **Vizitiu, A.**, Stroia, Stroia, A., Lazăr, Gîrbea, A., Foerster, U., Mihalef, V. GPU-based High Performance Computing: Employing massively parallel processors for speeding-up compute intensive algorithms, capitol în Patient-specific Hemodynamic Computations: Application to Personalized Diagnosis of Cardiovascular Pathologies, Springer, Heidelberg, Germany, 2017, 234 pag., ISBN: 78-3-319-56852-2, DOI: 10.1007/978-3-319-56853-9.