

EL JURDI, ROSANA

R&D Engineer in Deep Learning

CONTACT

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SKILLS

Programming

Python
MATLAB
C++
HTML
JavaScript

Software & Tools

Data Handling & Analysis



Visualisation

(eg. Matplotlib, gnuplot)

SLURM
PyTorch
TensorFlow

Languages

English
French
Arabic
(Native Language)

PROFESSIONAL EXPERIENCE

· R&D in Deep Learning

LITIS Lab, Université de Rouen, Normandie

Directors: Paul Honeine, Pascal Vasseur, Yohan Depuis

Project: Omnidirectional Image Analaysis and Segmentation

Ph.D. in Deep Learning

(Oct 2018 - Oct 2021)

(Oct 2021 - Present)

(July-Aug 2017)

LITIS Lab, Université de Rouen, Normandie

Directors: Paul Honeine, Caroline Petitjean, Fahed Abdallah

- Research Activities
 - · **Project**: Medical Image Segmentation using Deep CNNs in Fully and Weakly Supervised Frameworks.
 - Multi-GPU processing via CUDA and SLURM (CRIANN servers)
 - · Deep learning (deep model design, loss design...)
- Teaching at Institut Polytechnique UniLaSalle, Rouen
 - Preparation of courses, TD, and TP for first year engineering cycle, international formation in Probability, Functions of one variable, Integrals, Python and C++ programming.
 - · Preparation of seminars in Deep Learning for Master in Data Science

- International Collaboration at Eindhoven University of Technology

- · Visiting researcher (Feb.2020)
- · Awarded the PHC Van Gogh mobility scholarship
- · Research collaboration with Dr. Veronika Cheplygina

Other Activities

- · Ph.D. representative at the LITIS laboratory council
- · Co-advisor of two M1 students in Data Science, Université de Rouen
- · Organizer of the Doctoral Seminars in Deep Learning at the LITIS
- Research Assistant at the American University of Beirut (Oct-Nov 2018)
 - Project on multi-modal CNNs with text and image data
- Research Engineering Internship at Lebanese University (Mar-Sept 2018)
 - Twitter Sentiment Analysis using Convolutional Neural Networks
 - Annotation of a novel multi-label twitter dataset
- Research Internship at AIIA Solutions, Lebanon
 - Route Optimization via heuristic algorithms
 - Data Analysis via Python, MySQL, eclipse and Django
 - Web Development via JavaScript and HTML

EDUCATION

2 018-2021	Ph.D. in Informatics and Deep Learning
	LITIS Lab, Université de Rouen, Normandie
2 017-2018	M.Sc. in Robotics and Intelligent Systems
	Co-diplomation between the Universté Technique de Compiègne,
	France and Lebanese University, Beirut
2013-2018	Engineer in Electrical and Electronics
	Lebanese University, Faculty of Engineering, Beirut

PUBLICATIONS

· Journals:

- R. El Jurdi, C. Petitjean, P. Honeine and F. Abdallah, "BB-UNet: U-Net With Bounding Box Prior," in IEEE Journal of Selected Topics in Signal Processing, vol. 14, no. 6, pp. 1189-1198, Oct. 2020
- R. El Jurdi, C. Petitjean, P. Honeine, and F. Abdallah, "CoordConv-Unet: Investigating CoordConv for Organ Segmentation," in Innovation and Research in BioMedical engineering (IRBM), 2021 (in press)
- R. EL Jurdi, C. Petitjean, P. Honeine, V. Cheplygina, and F. Abdallah, "High-Level Prior-Based Loss Functions for Medical Image Segmentation: A Survey," in Computer Vision and Image Understanding, 2021 (submitted, in revision)
- Conferences
 - R. El Jurdi, C. Petitjean, P. Honeine, V. Cheplygina, and F. Abdallah, "A surprisingly effective perimeter-based loss for medical image segmentation," in Proceedings of the Medical Imaging with Deep Learning conference (MIDL), Lübeck, Germany, 7 9 July 2021
 - R. El Jurdi, T. Dargent, C. Petitjean, P. Honeine, and F. Abdallah, "Investigating coord-conv for fully and weakly supervised medical image segmentation," in Proceedings of the 10th International Conference on Image Processing Theory, Tools and Applications (IPTA), Paris, France, 9 12 Nov. 2020
 - R. El Jurdi, C. Petitjean, P. Honeine, and F. Abdallah, "Organ segmentation in CT images with weak annotations: A preliminary study," in Proceedings of the 27th GRETSI Symposium on Signal and Image Processing, Lille, France, 26 29 Aug. 2019