Anastasios Stamoulakatos

Research Associate

Professional Experience

Research Associate, CMAC Future Manufacturing Research Hub, Glasgow,
April 2022 – Present
- Improved decision-making in medicines manufacturing by developing machine learning models that correlate particle microscopy data with bulk powder properties
- Presented monthly to stakeholders from AZ, UCB, Takeda, Pfizer, Roche, Lilly
- Acquired and analysed data from CMAC lab and industrial partners
- Developed GUI with deployed models that can be used by non-technical lab personnel

Part-time Machine Learning Engineer, National Manufacturing Institute Scotland, Glasgow,
November 2021 – March 2022
- Accelerated manufacturing by developing and deploying a deep learning model for real-time bolt detection

Research Assistant, University of Strathclyde, CIDCOM, Glasgow,
October 2018 – December 2021
- Developed image and video recognition models using CNNs and RNNs to automate the visual inspection of subsea pipeline surveys
- Presented monthly to stakeholders from N-Sea
- Developed deep learning algorithms for automating visual inspection processes for cargo transportation and for identification of asbestos fibres in air samples
- Worked on domain adaptation, GANs, image and video augmentation, object detection and instance segmentation

Teaching Assistant, University of Strathclyde, Glasgow
October 2018 – April 2022
- Assisted 2nd year students in C++ lab exercises and final project
- Taught fundamentals of coding and object oriented programming

Relevant Skills

- Python, C++, SQL, Unix Bash
- PyTorch, Scikit-learn, Pandas, NumPy, SciPy, Seaborn
- Apache Spark, Azure, Git

Contact Info

- stamoulakatos.tasos@gmail.com
- +447519665417
- https://www.linkedin.com/in/anastasios-stamoulakatos-0b886911b/

Education

Ph.D. in Electronic and Electrical Engineering
Institution: University of Strathclyde, Glasgow, October 2018 – Present
Thesis: Automatic Annotation of Subsea Pipeline Surveys using Deep Learning
Industrial Partner: N-Sea

M.Eng. in Electrical and Computer Engineering
Institution: National Technical University of Athens, October 2012 – March 2018
GPA: 7.97/10
Thesis: Causality Plane (wavelet entropy - complexity) of ultrasound images of atheromatous plaque and Classification of their symptomacy using machine learning

Languages

Greek (Native)
English (Professional)
French (B2)
Spanish (Basic)

Publications

- Evaluating Style-Content Factorisation Capability of Image Comparison Metrics (To be submitted to Journal of Imaging)
- A Comparison of the Performance of 2D and 3D Convolutional Neural Networks for Subsea Survey Video Classification, OCEANS 2021
- Automatic annotation of subsea pipelines using deep learning. MDPI Sensors

Interests

Competing in triathlon races, hiking, guitar playing, chess