Tom Trigano

Ph.D. in Signal and Image Processing

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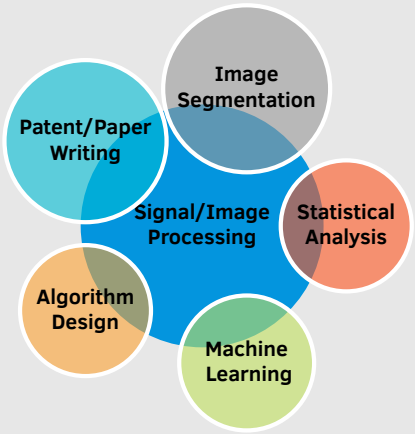
TomTrigano

Skills

Overview



Programming

Novice *Expert*

LaTeX • Matlab-Octave

C • C++

Python • Shell • R

Projects

Albert - Innovative algorithm development for a foot scanning device for orthotics fit, involving real-time image segmentation

GSL - A free GSL-based C/C++ implementation of Sparse Reconstruction tools for Gamma Spectroscopy

BioART - Creation of innovative curricula for biomedical Engineering with emphasis on replacement prosthetics (funded as an Erasmus Capacity project)

CoSA - Fast regression techniques for reconstruction of ECG intra-cardiac data for real-time applications

Experience

2020 2023 **Algorithm developer** Cardiokol, Kiryat Hateufa

- Algorithm development for healthcare applications (Matlab).
- Statistical analysis tools for data analysis.

2018 2019 **Part-time Back-end developer** Yoobic R&D, Herzliya

- Algorithm development for deep learning applications (Tensorflow/Keras).
- Use of the Google Object detection API and Google Cloud tools for deployment.

2015 2018 **Part-time Algorithm developer** Aetrex Israel, Nes Ziona

- Algorithm development for image processing and 3D reconstruction (one patent).
- Development of new images segmentation methods (Matlab/Python)
- Worked with the development teams for solving mathematical problems on both software and hardware (foot scanning device)

2008 - Present **Senior Lecturer / Researcher** SCE, Ashdod

- Research topics: applications of compressive sensing, new approaches for ECG signal processing and spectroscopic data (2 patents pending, 30+ publications)
- Teaching: Digital Signal Processing, Probability and Statistics, Signals and Systems
- Advisor of 30+ final-year projects, yielding publications in the field.

2006 - 2008 **Postdoctoral fellow** Hebrew University of Jerusalem

- Developments of models for neuroscience applications and nuclear spectroscopy
- Implementation in C/C++ and Matlab of developed algorithms
- Organization of training seminars in statistical signal processing for M.Sc. students

Education

2002 - 2005 **Ph.D., Signal Processing** (summa cum laude)
Telecom Paris Tech (Major French Engineering School),Paris, France
Title: Statistical signal processing for spectrometry: application to pile-up correction in gamma spectrometry (Advisor: Prof. E. Moulines)

1998 - 2002 **M. Sc. in Signal Processing and M. Sc. in Applied Probability** (cum laude)
Telecom Paris Tech And Paris 6 University, Paris, France
Specialization in Signal and Image Processing, Point Processes and Monte Carlo methods

1995 - 1998 **B. Sc. in Applied Mathematics and Computer Science** (cum laude)
Paris 7 University, Paris, France

Additional information

Full proficiency in French, English, Hebrew, basic knowledge of Spanish.

References and publications available upon request.