HAMZA ALTAKROURY

SUMMARY

A robust experience in signal processing and machine learning algorithms. A rich background in electrical engineering, programming and telecommunication. An international profile with an ability to adapt easily and quickly. Passionate for learning new skills and technologies with a potential to work in a team and independently.

JOB EXPERIENCE

CRAN UMR CNRS 7039 - ENSEM Université de Lorraine, Vandoeuvre, France
PhD Researcher 07/2013 - 12/2018
Worked on signal and image processing for biomedical applications (EEG/SEEG signals and MRI/CT images). Wrote codes for building human head models, optimization, sensitivity analysis and source localization.

FENS, Sabanci University, Istanbul, Turkey
Research and Teaching Assistant 09/2010 - 06/2013
Worked on machine learning algorithms for biomedical applications (EEG signals). Wrote codes for classifying brain signals. Leaded discussion sessions in probability and statistics and engineering courses. Supervised students in projects related to EEG recordings.

EDUCATION

PhD in Electrical and Computer Engineering – Université de Lorraine, France 2018
MSc in Electronics Engineering – Sabanci Univesity, Turkey 2013
BSc in Telecommunication and Electronics Engineering – Palestine Polytechnic University, Palestine (graduated with distinction) 2010

AWARDS

Doctoral Fellowship – EPIC project (Erasmus Mundus), Université de Lorraine 2013 – 2016
Sabanci University Graduate Fellowship 2011 – 2013
Yousef Jameel scholarship, Sabanci University 2010 – 2011
University Scholarship for honors, Palestine Polytechnic University 2005 – 2010

WORKSHOP AND COURSES

Fieldrip Workshop (EEG signal processing) **–** Porto, Portugal June 2016
Freesurfer Workshop (Medical image processing) **–** Tours, France May 2016
Brainstorm Workshop(EEG signal processing) **–** Freiburg, Germany December 2014

SKILLS

Python (+ numpy, matplotlib, seaborn, pandas, sklearn)
MATLAB Programming Software (+ Brainstorm, fieldtrip)
HTML, CSS, SASS
Verilog HDL
C language
Git
Microsoft Office (Word, Excel, PowerPoint)
Presentation Software (Neurobehavioral Systems)
Freesurfer software
Latex

LANGUAGES

Arabic	Native Language
English	C1
French	B2
Turkish	B2

TRAINING

Engineering Department, Jawwal Telecommunication Company, Palestine — July 2009
(Training in the Mobile Switching Center (MSC))

Engineering Department, Umniah Telecommunication Company, Jordan — August 2008
(Monitoring BTS alarms, fixing and establishing new BTS sites)

EXTRACURRICULAR ACTIVITIES

Volunteer - S.K society for people with special needs, Halhul, Palestine — 2006-2007

PUBLICATIONS

Abstracts/Poster Presentation:

Altakroury H., Koessler, L., Hofmanis, J., & Louis-Dorr V. (2016) In vivo estimation of head conductivities frequency response with IES and SEEG-EEG, *Neurophysiologie Clinique/Clinical Neurophysiology* 46(2):77-79.

Altakroury H., Koessler, L., Hofmanis, J., & Louis-Dorr V. (2015) Optimizing realistic volume propagation model using human in-vivo intracerebral electrical stimulations and recordings*, International conference on Basic and Clinical Multimodal Imaging (BACI)* - Utrecht, Netherlands.

Louis-Dorr, V., **Altakroury, H.**, Hofmanis, J., Caune, V., Ranta R., Le Cam, S., Vignal, P., Coulbois, S., Maillard, L. &Koessler, L. (2016) Résolution de problèmes direct et inverse à partir de mesures SEEG et de la stimulation électrique intracérébrale, *Neurophysiologie Clinique/Clinical Neurophysiology* 46(2):88.

Koessler, L., Colnat-Coulbois, S., Cecchin, T., **Altakroury, H**., Hofmanis, J., & Maillard, L. (2015) In-vivo measurements of human brain tissues conductivities using focal electrical stimulations in intracerebral multi-contacts electrodes*, International conference on Basic and Clinical Multimodal Imaging (BACI)* - Utrecht, Netherlands.