

Soufiane BELHARBI

CONTACT

ADDRESS : Résidence Henry Barbet, logement 211, rue Henry Barbet, 76000 Rouen
PHONE : 07 53 95 25 83
EMAIL : soufiane.belharbi@insa-rouen.fr
WEBSITE : <https://sbelharbi.github.io>

EDUCATION

- | | |
|-----------------------------|---|
| <i>Ongoing</i>
2014-2017 | PhD thesis: Multi-objectives image labeling.
<i>LITIS EA 4108, Team Apprentissage, INSA de Rouen, www.litislabs.eu, www.insa-rouen.fr</i>
Direction: M. Sébastien Adam www.litislabs.eu/Members/sadam . co-direction: M. Clément Chatelain clement.chatelain.free.fr , M. Romain Hérault romain.herault.free.fr . Ongoing work: Training neural networks for classification using hints. [Deep Learning] |
| 2013-2014 | Master 2 in Image and language automatic processing (IMALANG)
<i>UFR des Sciences, campus 2, Caen, ufrsciences.unicaen.fr</i>
machine learning, pattern recognition, data mining, video segmentation and analysis, document engineering, image processing, image indexing, natural language processing, image synthesis, biometry. Rank: 2 |
| 2011-2013 | Master 1-2 in Multimedia information processing systems (STIM)
<i>UFR des Sciences, Madrillet, Rouen, www.univ-rouen.fr</i>
pattern recognition, combination of information, data mining, statistics, image and signal processing, optimization, numerical filtering, numerical transmission, image compression, document processing, SGBD, coding, networks, management, project management. |
| 2006-2011 | Engineer diploma in computer science
<i>École Supérieure d'Informatique (ESI, ex:INI), Algeria, www.esi.dz</i>
algorithmics, mathematic-logic, operating system, information system, language theory, networks, compilation, data bases, programs conception, data mining, statistics, electronics, computer architectures. |
| 2006 | Baccalaureate (S),
<i>Lycée SI-ElHawas, Algeria, Mention: Good, Rank: 2</i> |

PROFESSIONAL EXPERIENCE

<i>Ongoing</i> 2014-2017	PhD thesis: Multi-objectives image labeling. <i>LITIS EA 4108, Team Apprentissage, INSA de Rouen, www.litislabs.eu, www.insa-rouen.fr</i> Direction: M. Sébastien Adam www.litislabs.eu/Members/sadam . co-direction: M. Clément Chatelain clement.chatelain.free.fr , M. Romain Hérault romain.herault.free.fr . Ongoing work: Training neural networks for classification using hints. [deep learning]
<i>2013-2014</i> 6 MONTHS	research internship: Facial landmark detection. Direction: M. Frédéric Jurie jurie.users.greyc.fr , laboratory: Greyc www.greyc.fr , team: Image.
<i>4 MONTHS</i>	Research project: Userpators detection in social networks: an application to soft biometry. Direction: M. Gaël Dias dias.users.greyc.fr
<i>2012-2013</i> 6 MONTHS	Research internship: Handwriting recognition using conditional random fields. Direction: M. Thierry Paquet thierry.paquet.free.fr , Clément Chatelain clement.chatelain.free.fr , laboratoire LITIS www.litislabs.eu
<i>3 MONTHS</i>	Research project: GMM application for writer identification in handwritten documents. Direction: M. Laurent Heutte lheutte.free.fr
<i>2011-2012</i> 3 MONTHS	Research project: Document image searching using similarity. Direction: M. Stephane Nicolas stephane.nicolas@univ-rouen.fr
<i>3 MONTHS</i>	Research project: Study of the Haar cascade for face detection in illuminations. Direction: M. Stephane Nicolas stephane.nicolas@univ-rouen.fr
<i>2010-2011</i> 1 YEAR	Research project: SVM-one-class application in online signature verification using smart card. Direction: Mme. Leila Hamdad l_hamdad@esi.dz , M. Youcef Chibani ychibani@usthb.dz

TEACHING

2016-2017 ongoing	Data mining 2: Courses of Deep Learning 4 th year ASI at l'INSA de Rouen.
	Introduction to data science (Statistics): TP 2 nd year STPI at l'INSA de Rouen.
4 months	Math updates: Algebra et real analysis: TD 3 rd year ASI at l'INSA de Rouen.
2015-2016 4 months	Algorithmics and programming: TD/TP 2 nd year STPI at l'INSA de Rouen.
	Introduction to data science (Statistics): TP 2 nd year STPI at l'INSA de Rouen.
4 months	Advanced algorithmics and C programming: TP 3 rd year ASI at l'INSA de Rouen.

RESEARCH & PUBLICATIONS

Published	S. Belharbi, C. Chatelain, R. Hérault, S. Adam. <i>A Unified Neural Based Model for Structured Output Problems</i> . CAP, 2015.
	S. Belharbi, R. Hérault, C. Chatelain, S. Adam. <i>Deep Multi-Task Learning with evolving weights</i> . ESANN 2016.
	S. Belharbi, C. Chatelain, R. Hérault, S. Adam. Learning structured output dependencies using deep neural networks. Deep Learning workshop, ICML, 2015.
	S. Belharbi, R. Hérault, C. Chatelain, S. Adam. <i>Pondération dynamique dans un cadre multi-tâche pour réseaux de neurones profonds</i> . RFIA 2016 (session spéciale : apprentissage et vision).
Submitted	S. Belharbi, R. Hérault, C. Chatelain, S. Adam, M. Chastan, S. Thureau, R. Modzelewski. <i>Spotting L3 slice in CT scans using deep convolutional network and transfer learning</i> . Journal Computers in Biology and Medicine.
	S. Belharbi, C. Chatelain, R. Hérault, S. Adam. <i>Multi-task Learning for Structured Output Prediction</i> . Journal Neurocomputing. arxiv.org/abs/1504.07550 .
Ongoing	S. Belharbi, R. Hérault, C. Chatelain, S. Adam. <i>Class-invariance Hint: a Multi-task Framework for Training Neural Networks</i> . (for a journal).

PROGRAMMING LANGUAGES & TOOLS

2015-2016 MATLAB, PASCAL
2014-2015 PYTHON, THEANO, BASH (LINUX)
2013-2014 MATLAB, PYTHON, BASH (LINUX), PHP, SAS
2012-2013 C++, OPENCV, BASH (LINUX), JAVA, OCATVE, MATLAB, CRFSUITE, HTK
2011-2012 C++, OPENCV, BASH (LINUX), JAVA, OCATVE, MATLAB
2010-2011 HTML, PHP, CSS, JAVASCRIPT, C, C++, SQL SERVER, MYSQL, .NET, JAVA, OPENCV, QT
2009-2010 HTML, PHP, CSS, JAVASCRIPT, C, C++, SQL SERVER, MYSQL, .NET, JAVA
2008-2009 HTML, PHP, CSS, JAVASCRIPT, C, C++
2007-2008 ASSEMBLEUR, PASCAL
2006-2007 ASSEMBLEUR

LANGUAGES

DIALECT: Algerian
LANGUAGES:
 ENGLISH: Read (5/5), Talk (4/5), Write (4/5)
 KABYLE: Read (0/5), Talk (1/5), Write (0/5)
 ARABIC: Read (4/5), Talk (4/5), Write (4/5)
 JAPANESE: some spoken words

HOBBIES

Reading: NOVELS
 Sport: RUNNING (uphills, long distance)
 Art: CINEMA, MUSIC, PHOTOGRAPHY