



# Taleb Alashkar

## Curriculum Vitae

### Education

- 2016–Present **PhD in Computer Engineering**, *Northeastern University*, Boston, USA.
- 2012–2015 **PhD in Computer Science**, *Lille 1 University*, Lille, France.
- 2011–2012 **Master in Computer Vision**, *Dijon University*, Dijon, France.
- 2004–2009 **Bachelor of Computer Engineering**, *Aleppo University*, Aleppo, Syria.

### Projects

- 2017–Present **System Engineering Intern**, P3 NORTH AMERICA INC, SouthField, MI, USA.  
Development and design of computer vision and deep learning system for autonomous car.
  - **Topic:** Vision based autonomous car system.
  - **Concept:** Computer Vision, Deep Learning, System Design, System testing.
  - **Skills:** System Development, Design, Testing.
- 2016 **Research Assistant**, SMILELAB NORTHEASTERN UNIVERSITY, Boston, USA.  
Conducting research on human face analysis using deep learning guided model by rules and examples for facial makeup recommendation system.
  - **Topic:** Symbolic-learning for deep neural network to recommend facial makeup.
  - **Concept:** Image Processing, Face analysis, Examples-Rules network.
  - **Skills:** Matlab, Python, Theano, C++.
- 2012–2015 **PhD Candidate**, CRISTAL LAB 3D SAM GROUP, Lille, France.  
Conducting research on face recognition and emotion detection from 3D videos.
  - **Topic:** 3D Dynamic Face and Facial Expression Recognition.
  - **Concept:** *Computer Vision:* 3D data collection, Processing, Feature extraction.  
*Machine Learning:* Subspace learning, Differential Geometry, SVM, SOSVM, PCA.
  - **Skills:** C++, PCL, OpenCV, VTK, Matlab
- 2012 **Master Intern**, LE2I LAB DIJON UNIVERSITY, Dijon, France.  
Conducting research on analyzing ECG signals in order to extract features signature for automatic ECG analysis.
  - **Topic:** Electrocardiogram (ECG) signal feature extraction and analysis.
  - **Concept:** Digital signal filtering, Feature Extraction and Recognition.
  - **Skills:** Matlab, C++.
- 2009–2011 **Co-Founder**, SADAH DIGITAL MARKETING SOLUTION, Aleppo, Syria.  
I served as co-founder for digital marketing solutions Start up. My responsibilities included creating the business model, building and coaching technical team of eight people and managing clients' relationship.

### Languages

- **Arabic:** Mother Tongue
- **English:** Fluent
- **French:** Working Proficiency
- **Italian:** Basics

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## Academic Services

### Teaching Assistant

- 2016 **Fundamental of Engineering Algorithms**, *Northeastern University*, Boston, USA.
- 2015 **Programming in C++**, *Lille 1 University*, Lille, France.
- 2014 **Digital Systems**, *Lille 1 University*, Lille, France.

### Principal Committee Member

- 2016 **IEEE International Conference on Machine Learning and Applications**, *USA*.
- 2016 **International Workshop on Understanding Human Activities through 3D Sensors in Conjunction with ICPR**, *Mexico*.
- 2016 **International Workshop on Representation, Analysis and Recognition of shape and motion from Imaging Data**, *Tunisia*.

### Reviewer

- 2017 **IEEE International Conference on Face and Gesture Recognition**, *USA*.
- 2016 **ACM Multimedia International Conference**, *Netherlands*.
- 2016 **IEEE International Conference on Data Mining**, *Spain*.
- 2015 **The Scientific World Peer-Reviewed Journal**, *Hindawi Press*.

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## Publication List

### Journals

1. **T. Alashkar**, B. Ben Amor, M. Daoudi and S. Berretti, "*Modeling Shape Dynamics on Grassmann Manifolds for 4D Face Recognition*", *Pattern Recognition*, 2016.
2. **T. Alashkar**, B. Ben Amor, M. Daoudi and S. Berretti, "*Analyzing Trajectories on Grassmann Manifolds for Spontaneous Emotion Detection*", *IEEE Transaction on Affective Computing*, 2016.

### International Conferences

3. **T. Alashkar**, S. Jiang and Y. Fu, "*Rule-Based Facial Makeup Recommendation System*", 12<sup>th</sup> IEEE Conference of Automatic Face and Gesture Recognition, USA, 2017.
4. **T. Alashkar**, S. Jiang, S. Wang and Y. Fu, "*Examples-Rules Guided Deep Neural Network for Makeup Recommendation*", 31<sup>st</sup> AAI Conference on Artificial Intelligence, USA, 2017.
5. O. Beya, M.M Hittawe, **T. Alashkar**, E. Fauvet and O. Laligant, "*Applying Non Linear Approach for ECG Denoising and Waves Localization*", 11<sup>th</sup> International Conference on Signal-Image Technology & Internet-Based Systems, Thailand, 2015.
6. **T. Alashkar**, B. Ben Amor, M. Daoudi and S. Berretti, "*Analyzing Trajectories on Grassmann Manifold for Early Emotion Detection from Depth Videos*", 11<sup>th</sup> IEEE Conference of Automatic Face and Gesture Recognition, Slovenia, 2015.
7. **T. Alashkar**, B. Ben Amor, M. Daoudi and S. Berretti, "*A 3D Dynamic Database for Unconstrained Face Recognition*", 5<sup>th</sup> 3D Body Scanning Technology International Conference, Switzerland, 2014.
8. **T. Alashkar**, B. Ben Amor, M. Daoudi and S. Berretti, "*A Grassmannian Framework for Face Recognition of 3D Dynamic Sequences with Challenging Conditions*", 8<sup>th</sup> NORDIA Workshop in European Conference of Computer Vision, Switzerland, 2014.

## Computer skills

C++, OpenCV, PCL, Python, Theano, Matlab, Linux, Latex

## Communication Skills

- 2015 Talk at *Francophone Day for Young Researchers in Computer Vision* , Lille, France.
- 2015 Talk at *Image Processing and Computer Vision Workshop*, Lille, France.
- 2014 Talk at *Face, Gesture and Action Behavior Research Day*, Paris, France.
- 2014 Talk at *3D Body Scanning Technology International Conference*, Lugano, Switzerland.
- 2014 Talk at *EECV NORDIA Workshop*, Zurich, Switzerland.
- 2014 Poster presentation at *International Computer Vision Summer School*, Sicily, Italy.
- 2013 Poster presentation at *Future and Disruptive Innovation Day*, Paris, France.
- 2012 Poster presentation at *ViBot5 Master Defense Day*, Girona, Spain.