



Mohammad ROUHANI

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BACKGROUND

I am a Computer Scientist with background in Applied Mathematics:

- **Computer Vision:** Motion Capture, Non-rigid Registration, Semantic Segmentation, Shape Matching, Multi-class Object Detection, Shape Description, Pose Estimation.
- **Machine Learning:** Random Forest, Regression Trees, Boosting, Deep Learning.
- **Computer Graphics:** Deformation Modeling, Texturing, Surface Reconstruction.

EXPERIENCE

2015 –present **EXPERT ENGINEER**

INRIA Sophia Antipolis, Nice, France

3D City Modeling, Point Cloud Segmentation, Machine Learning (C++).

2013 – 2015 **EXPERT ENGINEER**

INRIA Rhône-Alpes, Grenoble, France

4D Motion Capture, Deformation Modeling, Shape Matching (Matlab, C++)

2012 – 2013 **RESEARCH ASSOCIATE**

Imperial College London, UK

Object Classification, Random Forest, Pose Estimation (C++, OpenCV)

PROJECTS

2015 –present **ACUTE3D & INRIA Nice**

Objective: Semantic Segmentation of 3D Urban Scene.

Details: Large meshes obtained by multi-view stereo must be semantically segmented and represented in different levels of details.

2012 – 2013 **OMRON & Imperial College**

Objective: Multi-class Object Detection in Real-time.

Details: Objects of different classes and poses are classified and detected in real-time using randomized forests and DOT templates.

EDUCATION

2009 – 2012 **Ph.D. Computer Science**

Shape Registration & Representation by Implicit Functions.

Computer Vision Center, UAB, Barcelona, Spain (With Honours)

2008 – 2009 **M.Sc. Computer Vision and AI**

Computer Vision Center, UAB, Barcelona, Spain (GPA: 8.75 out of 10)

2003 – 2006 **M.Sc. Applied Mathematics**

Sharif University of Technology, Tehran, Iran (GPA: 17.09 out of 20)

1999 – 2003 **B.Sc. Applied Mathematics**

National University of Iran (Beheshti), Tehran, Iran (GPA: 15.25 out of 20)

PUBLICATIONS (1ST AUTHOR)

JOURNALS IEEE Trans. Image Processing (2015, 2013, 2012).

Conferences 3DV (2014), ECCV (2012), ICCV (2011), CVPR (2010).

COMPUTER SKILLS

Programming:

- **C++**, **C** (*Expert, since 2000*)
- **R**, **Matlab** (*Expert, since 2005*)
- **Qt**, Python (*Beginner*)

Libraries:

- OpenCV (*Expert, since 2008*)
- CGAL, OpenGL (*Beginner*)

Softwares:

- Maple • Meshlab • Latex
- Mathematica • Word • Excel

Released Codes (*Mathworks*)

- 3D Surface Reconstruction
- Point Cloud Registration.

LANGUAGE SKILLS

- **English** (*Fluent*)
- **Persian** (*Native*)
- **French** (*Intermediate*)
- **Spanish** (*Elementary*)

AWARDS

- **3rd** rank among 5130 applicants national entrance exam, Iran.
- Mobility grant for research stay at TU Vienna, Austria.

REVIEWING

- Springer CVIU, JMIV, PAAA
- IEEE TPAMI

HOBBIES

- Cycling • Swimming • Marathon
- Hiking • Traveling • Music

REFERENCES

- **Pierre Alliez**
Director of Research, INRIA Nice.
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- **Angel D. Sappa**
Senior Researcher, CVC, Barcelona.
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- **Edmond Boyer**
Director Research, INRIA, Grenoble.
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