Mahmood **Amintoosi**

SOFTWARE ENGINEERING (M.Sc.) · ARTIFICIAL INTELLIGENCE (Ph.D.)

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"Be the change that you want to see in the world."

Robotics and Automation Research Lab   *April 30, 2019*

SINGAPORE UNIVERSITY OF TECHNOLOGY AND DESIGN (SUTD)

SINGAPORE

Job Application for Postdoctoral Position

Dear Dr. Mohan Rajesh Elara

About Me

I am a member of Mathematics department at Hakim Sabzevari University from 1999 until now. My main research interests lie in the areas of Computer Vision and Combinatorial Optimization.

I received my BSc degree in Mathematics in 1994 and my M.Sc. degree in Computer Engineering with a second class honors, in 1998 from Ferdowsi University of Mashhad (the largest university in the east of IRAN). My M.Sc. thesis about **Tiling Problem** was under supervision of Dr. Reza Monsefi, associate Professor of Ferdowsi University of Mashhad.

From 1998 I joined to Mathematics department of Hakim Sabzevari University as a lecturer.

At 2006, I started my PhD curriculum in Artificial Intelligence at Iran University of Science and Technology under supervision of Dr. Mahmood Fathy (professor of CE department, IUST) and Dr. Nasser Mozayani (associate professor of CE department, IUST). I graduated on 2011 and returned back to Sabzevar.

I thought several courses including programming, machine learning, combinatorial optimization and many other computer courses.

Why SUTD?

Singapore University of Technology and Design is one of the leading universities in the world, which tries to put science into action. Working at SUTD is a great experience for every researcher.

Why Me?

One of the current projects running in SUTD is robotic vacuum cleaner. *Tiling Problem*, which I worked on it, is related to this project. According to my experience on this problem, I believe that I will have a good cooperation with the project team.

Experience

Super-Resolution and Image Registration   *My Ph.D. Thesis*

COMPUTER VISION & IMAGE PROCESSING   *2007-Present*

- Implemented several methods on super resolution, image registration, sparse representation, segmentation and many other domains in computer vision and image processing
- Published several Journal and Conference papers
- Supervising graduate students

Deep Learning

MACHINE LEARNING

2015-Present

- Familiar with Tensorflow, A few posts on my site about deep learning and NLP (in Persain): *Style-Transfer*, *Neural-Doodle*, *NLP in Persian*
- Supervising 3 graduate students (currently)
- Participation on urben tree detection challenge of *ICEE2019*, (*Some of my results using deep-learning*)

Tiling Problem

My M.Sc. Thesis

COMBINATORIAL OPTIMIZATION

- Solving the problem by GA, NN, SA
- Published several Journal and Conference papers about Tiling
- Supervising graduate students on Cutting and packing problems

Time Tabling Problem

Hakim Sabzevari University

COMBINATORIAL OPTIMIZATION

2003-2007

- Implemented several methods on time tabling problem
- Supervising under graduate students
- Published several Journal and Conference papers

Teacher Evaluation System

Hakim Sabzevari University

SOFTWARE DEVELOPER

2004-2007

- Implemented Teacher Evaluation Program of HSU using C++ Builder

LaTeX Typesetting

CTAN

LaTeX EXPERT

2009-Present

- Implemented LaTeX bibliography styles of Persian documents, *CTAN-link*
- Parsilatex site for developing LaTeX Persian tools: `www.parsilatex.com` is founded by me and my friends
- Published a *Persian book* about LaTeX
- Writing *HSU thesis template*

Facility Location Problem

Hakim Sabzevari University

COMBINATORIAL OPTIMIZATION

2012-Present

- Implemented several methods on facility location problem
- Published several Conference papers
- Supervising graduate students

Skills

Programming	MATLAB, Python, C/C++, Pascal, Perl and some others
Others	LaTeX, Microsoft office, github, Mendely, Google colab and Kaggle

Salary

I am going to travel with my family. It seems that a 4-person family needs about 7000$ to live in Singapore.

Sincerely,

Mahmood Amintoosi

Attached: Curriculum Vitae