

Curriculum Vitae

Personal Information

Given Name: Mohammadreza

Surname: Maddah

E-Mail Maddah.2@wright.edu

Education

PhD Student: Wright State University (2013, 12 Jan up to now)

I'm a PhD Student in Engineering Program-Sensor and signal Image processing (Engineering and Computer Science Dept.). I'm working in biomedical Imaging Lab and EREL. My current research study is in 3D visualization application in robotic laparoscopic surgery. In this project we try to create a 3D real model of abdomen during laparoscopic surgery.

M.Sc. in Photonic- Communication Systems, IUST, 2009~2011

Subject of Thesis: Using Modified PCF Correlation Filters in Face Verification

Advisor: "Dr. Saeed Mozaffari"

B.Sc. in Applied Physics, Tehran University, 1995~1999

Subject of Thesis: Radioactive Pollutants Measurement and Analysis in Tehran's Climate

Advisor: "Dr. Ali Pazirandeh"

Publications:

Journal Papers:

Saeed Mozaffari and Mohammadreza Maddah, "Face Verification Using Local Binary Pattern Unconstrained Minimum Average Correlation Energy Correlation Filters", JOSA A, Vol. 29, Issue 8, pp. 1717-1721 (2012)
(<http://www.opticsinfobase.org/josaa/abstract.cfm?uri=josaa-29-8-1717>)

Amir Hassanfiroozi, Mohammadreza Maddah, Mahdi Massoumin, "Scrutiny of a Particle in Schwarzschild Black Hole and Tunneling Effect", International Review of PHYSICS - December 2011 (Vol. 5 N. 6).

([http://www.praiseworthyprize.com/IREPHY-](http://www.praiseworthyprize.com/IREPHY-latest/IREPHY_vol_5_n_6.html#Scrutiny_of_a_Particle_in_Schwarzschild_Black_Hole_and_Tunneling_Effect)

[latest/IREPHY_vol_5_n_6.html#Scrutiny_of_a_Particle_in_Schwarzschild_Black_Hole_and_Tunneling_Effect](http://www.praiseworthyprize.com/IREPHY-latest/IREPHY_vol_5_n_6.html#Scrutiny_of_a_Particle_in_Schwarzschild_Black_Hole_and_Tunneling_Effect))

Conference Papers:

M.Maddah and S.Mozaffari, "Face Verification using Second Orders Polynomial Correlation Filters" IEEE 2012, Iranian 20th Conference on Electrical Engineering (ICEE 2012)

Research Activities:

"A Survey on Optical Correlation Filters", with the supervisory of Dr. S. Mozaffari, Semnan University, Semnan, Iran, summer 2010

"Various Correlation Filters Outputs Classification Using SVMs and Various Neural Networks", with the supervisory of Dr. S. Mozaffari, Tehran University, Tehran, Iran, summer 2010

Research Interests:

1. Image Processing, I'm really interested to develop and applications for biomedical Imaging, Sensing devices and related software.
2. Scientific visualization
3. Artificial Intelligence
4. Pattern Recognition

Highlights of Skills

Presented research in a number of seminars and publication various studies

Professional Experiences

Control and Instrument Engineer

- Consultant and designer of various instrumentation and control documents in field of Gas and petroleum:
Instrument data sheet design and vendor's offer analyzing, Design of FCS and ESD Logic Diagram and
Instrument hookup drawings, etc. (2003-2011)

Programming Skills

C# and C++

ITK, VTK and biomedical imaging software

OpenGL

MATLAB, Microsoft Office, AutoCAD, PLC S7

Languages:

Persian (native), English, French (basic), Arabic

Hobbies

Painting, Mountain climbing, Philosophy books