

Mahdi Abbaspour Tehrani

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- EDUCATION
- ◇ **University of California Irvine**, Irvine, CA, 2012 - present
PhD. in Computer Science
 - ◇ **University of California Irvine**, Irvine, CA, 2012 - 2014
M.S. in Computer Science **GPA: 3.96/4**
 - ◇ **Sharif University of Technology**, Tehran, Iran, 2007 - 2012
B.S. in Computer Engineering - Software **GPA: 3.97/4**
- RESEARCH INTERESTS
- ◇ **Computer Graphics, Computer Vision**, Machine Learning
- PUBLICATIONS
- ◇ **Mahdi Abbaspour Tehrani**, M. Gopi, Aditi Majumder, *Automated Projector Calibration and Registration for Arbitrary-Shaped Multi-Projector Systems*, Submitted to IEEE Transactions on Visualization and Computer Graphics, 2017.
 - ◇ **Mahdi Abbaspour Tehrani**, Thabo Beeler, Anselm Grundhofer, *A Practical Method for Fully Automatic Intrinsic Camera Calibration Using Directionally Encoded Light*, Computer Vision and Pattern Recognition (CVPR), Honolulu, Hawaii, July 2017. (Selected as Spotlight Paper)
 - ◇ **Mahdi Abbaspour Tehrani**, Aditi Majumder, M. Gopi, *Correcting perceived perspective distortions using object specific planar transformations*, International Conference on Computational Photography (ICCP) , Evanston, IL, USA, May 2016.
 - ◇ Behzad Sajadi, **Mahdi Abbaspour Tehrani**, Mehdi Rahimzadeh, Aditi Majumder, *High-Resolution Lighting of 3D Reliefs Using a Network of Projectors and Cameras*, 3DTV, 2015. (**Best Paper Award**)
 - ◇ **Mahdi Abbaspour Tehrani**, Aditi Majumder, M.Gopi, *Undistorting Foreground Objects in Wide Angle Images*, IEEE International Symposium on Multimedia (ISM), Anaheim, CA, USA, 2013.
 - ◇ Soheil Hassas Yeganeh, Jafar Habibi, Hassan Abolhassani, **Mahdi Abbaspour Tehrani**, Jamshid Esmaelnezhad, *An approximation algorithm for finding skeletal points for density based clustering approaches*, Proceedings of the IEEE Symposium on Computational Intelligence and Data Mining, CIDM, part of the IEEE Symposium Series on Computational Intelligence, pp. 403-410, Nashville, TN, USA, 2009.
 - ◇ **M. Abbaspour**, E.Asgari, S.Bagheri, M. N. Do, P.Khanipour, J.Lu, S.MahAbadi, A.Vakilian, *Automatic pill identification*, ADSC technical report, pp. 1 - 16, Oct. 2010. (**In process of being patented in Singapore**)
 - ◇ **M. Abbaspour**, E.Asgari, S.Bagheri, M. N. Do, P.Khanipour, J.Lu, S.MahAbadi, A.Vakilian, *Indoor positioning and navigation with a camera phone*, ADSC technical report, pp. 1 - 10, Oct. 2010.
- POSTERS
- ◇ **Mahdi Abbaspour Tehrani**, Aditi Majumder, *Auto-Calibration of Multi-Projector Systems on Arbitrary Shapes*, Applied Imagery Pattern Recognition (AIPR), Washington DC, October 2016.
 - ◇ Behzad Sajadi, **Mahdi Abbaspour Tehrani**, Mehdi Rahimzadeh, Aditi Majumder, *Auto-Registration of Distributed Network of PPPs on Non-planar Surfaces*, ICCP, Evanston, IL ,May 2016.
- DEMOS
- ◇ Aditi Majumder, Duy-Quoc Lai, **Mahdi Abbaspour Tehrani**, *A multi-projector display system of arbitrary shape, size and resolution*, SIGGRAPH, 2015.
 - ◇ Aditi Majumder, Duy-Quoc Lai, **Mahdi Abbaspour Tehrani**, *A multi-projector display system of arbitrary shape, size and resolution*, IEEE Virtual Reality Conference, 2015.

- WORK EXPERIENCE
- ◇ **USC Institute for Creative Technologies(ICT)**, Summer 2017
 - ◇ **Intern at Disney Research Zurich**, Summer 2016
working on a new fully automatic intrinsic camera calibration method using directionally encoded light.
 - ◇ **Software Engineer Intern at Ooma**, Summer 2015
 - ◇ **Software Engineer Intern at SRCH2**, Summer 2014
Geo Search: Implementing and integrating high performance geo search into SRCH2 keyword search engine.
Access Control List: Implementing record-based access-control for the SRCH2 search engine.
 - ◇ **Software Engineer at Digital Raster Company** Summer 2013
Design and development of plugins for MAYA(3D Animation Software)
 - ◇ **Intern at Beckman Laser Institute(BLI)** Summer 2013
Developing a 3D tracking software for the breast cancer detection probe.
 - ◇ **Intern at ADSC (Advance Digital Sciences Center)** summer 2010
Joint research center between UIUC and A*STAR, Singapore. Worked on the project **E-CAM: Efficient Visual Computing for Interactive Vision Applications on Mobile Devices**.
Worked on two project:
 - **Indoor Positioning and Navigation with Camera Phone.**
 - **Pill Identification with Camera Phone.**
- AWARDS AND HONORS
- ◇ Best Demo Award, Computer science research showcase, University of California Irvine, 2017.
 - ◇ Recipient of Link Foundation Fellowship including one year financial support, 2016-2017.
 - ◇ Best Demo Award, Computer science research showcase, University of California Irvine, 2016.
 - ◇ Recipient of David Feign Fellowship Award, July 2015.
 - ◇ Best Paper Award, 3DTV 2015.
 - ◇ Recipient of Deans Fellowship, including four years of full financial support, from University of California, Irvine, 2012-2016
 - ◇ Awarded summer internship grant from **ADSC (Advance Digital Sciences Center)**, joint research center between **University of Illinois at Urbana-Champaign** and **A*STAR**, July 2010 - September 2010.
 - ◇ **Ranked 195th** in the annual nationwide universities entrance exam (Konkour) over more than 300,000 participants, 2007.
 - ◇ **Honorary Admitted to Graduate Study** at Sharif University Computer Engineering Department, 2010.
 - ◇ Selected as an outstanding student for Computer Engineering Olympiad team of Sharif University of Technology, April 2011.
- SKILLS
- ◇ Programming Languages : C/C++, Java, MatLab, Python, Prolog .
 - ◇ Technologies : OpenGL, OpenCV
 - ◇ Web/DB Technologies: JavaScript, PHP, Symfony, MySQL.
- ACADEMIC EXPERIENCE
- ◇ **Presenter for Algorithmic Graph Theory study group** Under the supervision of Prof. Mohammad Ali Safari, 2009.
 - ◇ **Teaching Assistant**, University of California Irvine.
 - Computer Graphics, Visual Computing, Artificial intelligence, Boolean Algorithms, Introduction to Programming.
 - ◇ **Teaching Assistant**, Sharif University of Technology.

- Signals and Systems, Design and Analysis of Algorithms, Theory of Languages and Automata, System Analysis and Design and Advanced Programming.

REFERENCES

- ◇ Professor Aditi Majumder, University of California Irvine. majumder@ics.uci.edu
- ◇ Professor Gopi Meenakshisundaram, University of California Irvine. gopi@ics.uci.edu
- ◇ Professor Chen Li, University of California Irvine and CTO of SRCH2. chenli@srch2.com