

Milind Padalkar

Curriculum Vitae

Lab 202, DA-IICT,
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Education

- 2011–till **PhD Candidate (synopsis presented)**,
date *Dhirubhai Ambani Institute of Information and Communication Technology (DA-IICT)*, Gandhinagar, India,
CPI 9.00/10.
Supervisor: Dr. Manjunath V. Joshi
- 2008–2010 **M.Tech. in Computer Engineering**,
Sardar Vallabhbhai National Institute of Technology (SVNIT), Surat, India,
CGPA 8.75/10.
Thesis title: *Histogram Based Efficient Video Shot Detection Algorithms*
Supervisor: Dr. Mukesh A. Zaveri
- 2004–2008 **B.E. in Information Technology**,
Finolex Academy of Management and Technology, Ratnagiri,
University of Mumbai, India,
Aggregate Percentage 61.67%.
Project title: *Content Based Image Retrieval System*
Supervisor: Prof. Santosh V. Jadhav
- 2004 **Higher Secondary Certificate (H.S.C.)**,
Maharashtra State Board, India,
Percentage 80.50%.
- 2002 **Secondary School Certificate (S.S.C.)**,
Maharashtra State Board, India,
Percentage 85.86%.

Publications

Book

- [1] M. G. Padalkar, M. V. Joshi, and N. L. Khatri, *Super-resolution and Inpainting: Application to Digital Heritage Reconstruction*. Morgan Claypool Synthesis Lectures on Visual Computing: Computer Graphics, Animation, Computational Photography and Imaging, [**Book under development (prospectus accepted)**] (<http://www.morganclaypool.com/toc/vcp/1/1>), Series Editor Prof. Brian Barsky (UC Berkeley).]

Book Chapter

- [1] M. G. Padalkar and M. V. Joshi, “Automatic detection and inpainting of defaced regions and cracks in heritage monuments,” in, [**Chapter submitted (under review)**] to Prof. Santanu Chaudhury, IIT Delhi whose proposal for publishing an edited volume of chapters outlining the outcome of different aspects of the Indian Digital Heritage (IDH)-Hampi project has been approved by Springer-Verlag (<http://digitalhampi.in/#book>).

Journal

- [1] M. G. Padalkar and M. V. Joshi, "Auto-inpainting heritage scenes: a complete framework for detecting and infilling cracks in images and videos with quantitative assessment," *Machine Vision and Applications*, vol. 26, no. 2-3, pp. 317–337, 2015. [Online]. Available: <http://dx.doi.org/10.1007/s00138-015-0661-6>.

Conferences and Workshops

- [1] M. G. Padalkar, M. V. Joshi, and N. Khatri, "Simultaneous inpainting and super-resolution using self-learning," in *Proceedings of the 26th British Machine Vision Conference (BMVC2015)*, X. Xie, M. W. Jones, and G. K. L. Tam, Eds., BMVA Press, 2015, pp. 105.1–105.12. [Online]. Available: <https://dx.doi.org/10.5244/C.29.105>.
- [2] M. G. Padalkar, M. V. Vora, M. V. Joshi, M. A. Zaveri, and M. S. Raval, "Identifying Vandalized Regions in Facial Images of Statues for Inpainting," in *ICIAP2013 Workshop on Multimedia for Cultural Heritage*, ser. Lecture Notes in Computer Science, vol. 8158, Springer Berlin Heidelberg, 2013, pp. 208–217. [Online]. Available: http://dx.doi.org/10.1007/978-3-642-41190-8_23.
- [3] M. G. Padalkar, M. V. Joshi, M. A. Zaveri, and C. M. Parmar, "Exemplar based Inpainting using Autoregressive Parameter Estimation," in *Proceedings of the International Conference on Signal, Image and Video Processing*, ser. ICSIVP'12, 2012, pp. 154–160, ISBN: 978-93-81583-19-7.
- [4] M. G. Padalkar, M. A. Zaveri, and M. V. Joshi, "SVD Based Automatic Detection of Target Regions for Image Inpainting," in *Computer Vision - ACCV 2012 Workshops*, J.-I. Park and J. Kim, Eds., ser. Lecture Notes in Computer Science, vol. 7729, Springer Berlin Heidelberg, 2012, pp. 61–71. [Online]. Available: http://dx.doi.org/10.1007/978-3-642-37484-5_6.
- [5] M. G. Padalkar and M. A. Zaveri, "Dissolve Detection Based Shot Identification Using Singular Value Decomposition," in *Proceedings of the 2010 Fourth Asia International Conference on Mathematical/Analytical Modelling and Computer Simulation*, ser. AMS '10, Washington, DC, USA: IEEE Computer Society, 2010, pp. 312–316. [Online]. Available: <http://dx.doi.org/10.1109/AMS.2010.69>.

International Exposure

- Feb. 2016 Attended the ACM Distinguished Speaker talk titled "From Vision-Realistic Rendering to Vision Correcting Displays" by Prof. Brian A. Barsky (UC Berkeley) at Gandhinagar, India.
- Jan. 2016 Presented two papers in *XRCI Open 2016* at Bengaluru, India. [Posters]
- Sept. 2015 Presented paper in the *26th British Machine Vision Conference (BMVC2015)* at Swansea, United Kingdom. [Poster]
- Jan. 2015 Participated in the *Immersive Storytelling track, MIT Media Lab Design Innovation Workshop 2015* at Gandhinagar, India.
- Nov. 2014 Served as the *Organizing Committee Member* in the *3^d ACCV Workshop on e-Heritage* which was held in conjunction with the *12th Asian Conference on Computer Vision (ACCV2014)*, Singapore.
- Dec. 2013 Attended *the National Conference on Computer Vision, Pattern Recognition, Image Processing and Graphics (NCVPRIPG2013)* at Indian Institute of Technology Jodhpur, India.
- Dec. 2012 Attended *the Eight Indian Conference on Vision, Graphics and Image Processing (ICVGIP2012)* at Indian Institute of Technology Bombay, India.

- Dec. 2012 Attended a two day workshop on *Digital Video Processing and Analytics (DVAP-12)* at Indian Institute of Technology Madras, India.
- Jan. 2012 Presented paper in the *International Conference on Signal, Image and Video Processing (ICSIVP2012)* at Indian Institute of Technology Patna, India. [Oral]
- May 2010 Presented paper in the *Fourth Asia International Conference on Mathematical/Analytical Modelling and Computer Simulation (AMS2010)* at Kota Kinabalu, Malaysia. [Oral]

Awards and Honours

- Sept. 2015 Awarded the *Xerox Research Centre India Travel Grant (₹ 1,25,000)* to attend the 26th British Machine Vision Conference (BMVC2015) at Swansea, United Kingdom.

Competitive Exams

- 2007 **Graduate Aptitude Test in Engineering (GATE)**,
Discipline: Information Technology,
 All India Rank: 46.

Skills

- Programming C/C++, Matlab, OpenCV library, Python, acquainted with Torch, CAFFE and Theano libraries for deep learning
- Publishing / \LaTeX , MS Office, LibreOffice
- Presentation
- Operating Systems MS Windows, Linux

Experience

- Apr. 2016 – **Teaching Assistant**,
 till date *DA-IICT, Gandhinagar, India.*
- Aug. 2011 – **Junior Research Fellow (JRF)**,
 Mar. 2016 *DA-IICT, Gandhinagar, India*,
 Project: “Immersive Navigation for a Walk-through Application” funded by Department of Science and Technology (DST), Govt. of India.
- Feb. 2011 – **Assistant Professor**,
 Jul. 2011 *MCA Department*,
Sardar Patel Institute of Technology, Mumbai, India.
- Jan. 2011 – **Lecturer**,
 Feb. 2011 *Department of Information Technology*,
Sardar Patel Institute of Technology, Mumbai, India.

Extra Curricular Activities

- 2007–2008 General Secretary of the institute
- 2007–2008 Chief Coordinator of the Information Technology Students Association
- 2005–2007 Coordinator for Athletics – Annual Sports

- 1999–2007 Participated and won in various games like Athletics, Chess and Football at College, Division, State and National level events
- 2001–2002 Awarded by school as the *National Athlete of the Year*

Hobbies

- 🎵 Playing musical instruments like mouth-organ & guitar.
- 🌐📖📱 Surfing the Internet, especially various technical forums.
- 📝 Blog I also like to write articles in my blog: <http://milindpadalkar.wordpress.com>

References

- ▶ **Dr. Manjunath V. Joshi**
Professor, DA-IICT, Gandhinagar, India
✉ mv_joshi@daiict.ac.in ☎ +91-79-30510611
- ▶ **Dr. Mukesh A. Zaveri**
Associate Professor, SVNIT, Surat, India
✉ mazaveri@coed.svnit.ac.in ☎ +91-261-2201766