

# Milind Padalkar

## Curriculum Vitae

Lab 208, DA-IICT,  
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India – 382007  
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### Education

- 2011–till **PhD Candidate**,  
date *Dhirubhai Ambani Institute of Information and Communication Technology (DA-IICT)*, Gandhinagar, India,  
CPI 9.00/10.  
Advisor: 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*  
Advisor: Dr. Mukesh A. Zaveri
- 2004–2008 **B.E. in Information Technology**,  
*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 in Journals

- [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.

### Publications in 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, ISBN: 1-901725-53-7.
- [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](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](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>.

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## Books

- [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 prospectus accepted**, series (<http://www.morganclaypool.com/toc/vcp/1/1>) editor Prof. Brian A. Barsky, (UC Berkeley).]

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## 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 26<sup>th</sup> *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<sup>rd</sup> *ACCV Workshop on e-Heritage* which was held in conjunction with the 12<sup>th</sup> 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]

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## Awards and Honours

Sept. 2015 Awarded the *Xerox Research Centre India Travel Grant* to attend the 26<sup>th</sup> British Machine Vision Conference (BMVC2015) at Swansea, United Kingdom.

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## Competitive Exams

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

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## Skills

Programming C/C++, Matlab, OpenCV library, Python  
Publishing /  $\text{\LaTeX}$ , MS Office, LibreOffice  
Presentation  
Operating MS Windows, Linux  
Systems

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## Experience

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*.

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## 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*

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## Hobbies

🎵 Playing musical instruments like mouth-organ & guitar.  
🌐 Surfing the Internet, especially various technical forums.

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## References

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