Milind Padalkar

Curriculum Vitae

63, Beach Towers,
P. Balu Marg,
Prabhadevi, Mumbai,
India – 400025
✆ *+91-9925509561*
✉ *milind.padalkar@gmail.com*
⌨ *www.mgpadalkar.in*

Education

2011–till date **PhD Candidate**,
Dhirubhai Ambani Institute of Information and Communication Technology (DA-IICT), Gandhinagar, India,
CPI 9.00/10.
Thesis title: *Novel Techniques for Auto-inpainting in Heritage Reconstruction*
(Review received from two examiners, I will be defending my thesis on 14th April 2017)
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 (FAMT), 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, *Digital Heritage Reconstruction Using Super-resolution and Inpainting*, B. A. Barsky, Ed. Synthesis Lectures on Visual Computing, Morgan & Claypool Publishers, 2016. [Online]. Available: `http://www.morganclaypoolpublishers.com/catalog_Orig/product_info.php?products_id=1008`.

Book Chapter

[1] M. G. Padalkar and M. V. Joshi, "Automatic detection and inpainting of defaced regions and cracks in heritage monuments," in, [**Revised draft submitted** 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.
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.
Nov. 2014	Served as an *Organizing Committee Member* in the *3rd ACCV Workshop on e-Heritage* which was held in conjunction with the 12th Asian Conference on Computer Vision (ACCV2014), Singapore.
Sep. 2014	Served as a *Reviewer* in the Eighth International Conference on Advances in Pattern Recognition (ICAPR 2015), Kolkata. (Invited by: Program Chairs, ICAPR 2015).
Jan. 2014	Served as a *Reviewer* in Multimedia Tools and Applications. (Invited by: The Editorial Office, Multimedia Tools and Applications).

Competitive Exams

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

Skills

Programming	**Frequently used:** C/C++ and Matlab. **Less frequently used:** OpenCV library (Link to a video player I developed using OpenCV: `http://www.mgpadalkar.in/videoPlayer/`) **New to:** Python and libraries for deep learning viz. Keras, Torch, CAFFE and Theano.
Publishing / Presentation	LATEX, MS Office, LibreOffice
Operating Systems	MS Windows, Linux

Experience

Mar. 2016 – till date	**Senior Research Engineer**, *Vehant Technologies, NOIDA, Uttar Pradesh, India.*
Apr. 2016 – Jul. 2016	**Teaching Assistant**, *DA-IICT, Gandhinagar, India.*

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

Extra Curricular Activities

2007–2008	General Secretary of the institute (FAMT)
2007–2008	Chief Coordinator of the Information Technology Students Association (FAMT)
2005–2007	Coordinator for Athletics – Annual Sports (FAMT)
1999–2007	Participated and won in various games like Athletics, Chess and Football at College, Division, State and National level events
2001–2002	Awarded as the *National Athlete of the Year* by school (Vidya Vikasini English High School, Vasai (E))

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. Suman K. Mitra**
Professor and Dean (Academic Programs), DA-IICT, Gandhinagar, India
✉ *suman_mitra@daiict.ac.in*   ☎ +91-79-30510584

► **Dr. Mukesh A. Zaveri**
Associate Professor, SVNIT, Surat, India
✉ *mazaveri@coed.svnit.ac.in*   ☎ +91-261-2201766