

Career Objective

To be involved in applied research and development in the domain of digital color imaging, and to attain a leadership position in a reputed organization in the imaging industry

Education

Doctorate in [Applied Automation and Computer Science](#), IRCCyN – Image and Video Communications Group, Ecole Polytechnique, **University of Nantes**, France, September 2008 – August 2011

- **PhD Thesis:** *From Color Science to Media & Entertainment Industry applications: by means of display, vision and quality models - beyond the limits of existing standards.*

Master of Science in [Color Science](#), Munsell Color Science Laboratory, Center for Imaging Science, **Rochester Institute of Technology**, Rochester, NY, USA, May 2008

- **MS Thesis:** *Evaluation of the color image and video processing chain and visual quality management for consumer systems*

Master of Science in Architectural Engineering with specialization in [Lighting/Electrical](#), **Pennsylvania State University**, USA, May 2005

- **MS Thesis:** *Proof-of-Concept: CMOS Sensor Based Lighting Control System Integrating High Dynamic Range Imaging and DALI*

Bachelor of Engineering in [Electrical Engineering](#) with elective in [Illumination Engineering](#), **Jadavpur University**, Calcutta, India, 2000.

Professional Experience

September 2008-Present **Thomson Corporate Research, Rennes, France**
Research Engineer/PhD Student

- Conducting research on the PhD Thesis Topic: Color Science for the M&E Industry

September 2005-March 2008 **Center for Imaging Science, RIT, Rochester, NY**
Graduate Assistant

- Conducted research on algorithmic and perceptual aspects of color processing in consumer video processing systems (thesis research sponsored by Intel Corp.)

Resume – Abhijit Sarkar

June 2007-August 2007

Intel Corporation, Chandler, AZ

Summer Intern

- Continued thesis research, developed a novel color and contrast enhancement algorithm and conducted subjective experiments to evaluate its performance

June 2006-August 2006

Hewlett-Packard Company, Vancouver, WA

College Intern

- Developed a software tool for conducting psychophysical experiments on the image quality of various printing devices and demonstrated software capability by designing and conducting an image quality experiment for the product under development

Patent

- Abhijit Sarkar, Jorge E. Caviedes, and Mahesh Subedar, “Joint enhancement of lightness, color and contrast of images and video”, US Patent Application #12/286,317 filed on September 30, 2008

Publications

- A. Sarkar, L. Blondé, P. Le Callet, F. Atrousseau, J. Stauder, P. Morvan, “*Study of Observer Variability on Modern Display Colorimetry: An Analysis of CIE 2006 Model*”, to be presented at the 11th Congress of the International Colour Association (AIC) 2009, Sydney, Australia, 2009
- A. Sarkar, L. Blondé, P. Le Callet, F. Atrousseau, J. Stauder, P. Morvan, “*Study of Observer Variability on Modern Display Colorimetry: Comparison of CIE 2006 Model and 10° Standard Observer*”, to be presented at the 11th Congress of the International Colour Association (AIC) 2009, Sydney, Australia, 2009
- A. Sarkar, M.D. Fairchild, J.E. Caviedes, M. Subedar, “A Comparative Study of Color and Contrast Enhancement for Still Images and Consumer Video Applications”, in *Proceedings of the Sixteenth Color Imaging Conference*, Portland, Oregon, November 2008.
- A. Sarkar, M.D. Fairchild and C. Salvaggio, “Integrated Daylight Harvesting and Occupancy Detection Using Digital Imaging”, *Proc. SPIE Int. Soc. Opt. Eng.* 6816, 68160F (2008)
- A. Sarkar and R. Mistrick, “A Novel Lighting Control System Integrating High Dynamic Range Imaging and DALI”, *Invited Paper, IES Annual Conference*, Phoenix, Az (2007)
- A. Sarkar and R. Mistrick, “A Novel Lighting Control System Integrating High Dynamic Range Imaging and DALI” *J Illum Eng Soc.* 2(4): 307-322 (2006)
- R. Mistrick and A. Sarkar, “A Study of Daylight-Responsive Photosensor Control in Five Daylighted Classroom”, *J Illum Eng Soc.* 1(3): 51-74 (2005)

Honors and Awards

- Awarded CIS-Kodak research grant for Innovative Graduate Student Research Proposal by the Center for Imaging Science, RIT in 2006; Project title: *A Proof-Of-Concept Application of Digital Imaging in Lighting Control – Integrating Daylight and Occupancy Sensing*.
- Awarded scholarship and graduate assistantship for graduate studies by the Center for Imaging Science, Rochester Institute of Technology in 2005-07
- Awarded graduate assistantship by Dept of Arch. Engineering, Penn State University in 2003-2005

Professional Affiliation

Student Member: IEEE (Institute of Electrical and Electronics Engineers), ISCC (Inter-Society Color Council), IS&T (Society for Imaging Science and Technology), SID (Society for Information Display).

References

Available on request