

PRAVEEN PANKAJAKSHAN

ARIANA Projet-team, INRIA,
2004 route des lucioles, B.P. 93,
06902 Sophia-Antipolis Cedex, France
Ph: +33-(0)492387863 (O)
Email: ppankaja@sophia.inria.fr,
Website: www-sop.inria.fr/members/Praveen.Pankajakshan

EDUCATION

- Ph.D. (expected Dec. 2009), Computer Science, Signal and Image Processing, INRIA, Sophia-Antipolis, France.
- Master of Science (2005), Electrical and Computer Engineering, Texas A&M University, College Station, TX, USA.
- B. Tech. (2002), Electrical Engineering, Indian Institute of Technology (IIT) Roorkee, Roorkee, India.

RESEARCH INTERESTS

Application of statistical image processing, pattern recognition and machine learning to fluorescence microscopes.

SELECTED PUBLICATIONS

- Thesis (in preparation)
'Blind deconvolution for three dimensional fluorescence microscopy' Ph.D. Thesis, University of Nice Sophia-Antipolis, France, Dec. 2009.
- Journals
P. Pankajakshan, B. Zhang, L. Blanc-Féraud, J.-C. Olivo-Marin, and J. Zerubia, *'Blind deconvolution for thin layered confocal imaging,'* Journal of Applied Optics, vol. 48, no. 21, Jul. 2009.
P. Pankajakshan, *'A unified approach for determining the underlying causes of non-stationary disturbances,'* International Journal of Computer Applications in Technology, vol. 35, issue 2/3/4, pp. 241-261, June 2009.
P. Pankajakshan, and V. Kumar, *'Detail-preserving image information restoration guided by SVM based noise mapping,'* Journal of Digital Signal Processing, vol. 17, no. 3, pp. 561-577, May 2007.
- Conference Proceedings
P. Pankajakshan, and L. Blanc-Féraud, and Z. Kam, and J. Zerubia, *'Point-spread function retrieval for fluorescence microscopy,'* Proc. IEEE International Symposium on Biomedical Imaging, Boston, USA, Jul. 2009.
P. Pankajakshan, and B. Zhang, and L. Blanc-Féraud, and Z. Kam, and J. C. Olivo-Marin, and J. Zerubia, *'Blind deconvolution for diffraction-limited fluorescence microscopy,'* Proc. IEEE International Symposium on Biomedical Imaging (ISBI), pp. 740-743, May 2008.
P. Pankajakshan, and B. Zhang, and L. Blanc-Féraud, and Z. Kam, and J. C. Olivo-Marin, and J. Zerubia, *'Parametric Blind deconvolution for confocal laser scanning microscopy,'* Proc. IEEE International Conference of EMBS (EMBC-07), pp. 6531-6534, Aug. 2007.
P. Pankajakshan, *'Phasor estimation under nonstationary conditions,'* Proc. International Conference on Applied Mathematics 2005 (ICAM'05), Bandung, Indonesia, pp. 519, Aug. 2005.
P. Pankajakshan, *'KFAMP: An implementation scheme on phasor estimation for protective relays' 7th* Engineering and Applied Mathematics Conference (EMAC 2005), Melbourne, Australia, Sept. 2005.

SELECTED TALKS

- ‘*On blind deconvolution and PSF retrieval,*’ June 19, 2009, Quantitative Image Analysis Unit, Institute Pasteur, Paris.
- ‘*On deconvolution and the hidden “phase” of an incoherent imaging system,*’ Apr. 07, 2009, Cross Seminar, INRIA, Sophia-Antipolis.
- ‘*Restoration of confocal laser scanning microscopic images,*’ Jan. 14, 2009, CNES, Toulouse.
- ‘*Myopic deconvolution for fluorescence microscopy,*’ Dec. 18, 2008, LabEl, Lab. MIPS, Université de Haute-Alsace, Mulhouse.
- ‘*Blind deconvolution and 3D PSF modeling in biological microscopy,*’ Nov. 17, 2008, high council for research, scientific and technological co-operation, status seminar program in medical imaging, Paris.
- ‘*Inverse problems in image processing,*’ Aug. 06, 2008, Department of Mathematics, Indian Institute of Science (IISc) Math Initiative (IMI), Bangalore.
- ‘*Inverse problems in microscopy,*’ Sept. 15, 2006, Department of Electrical Engineering, Indian Institute of Technology (IIT) Roorkee.
- ‘*Power signal RMS shape recognition for feeder device identification using grammatical inference technique,*’ Mar. 30, 2004, Student Research Week, Texas A&M University, College Station, TX, USA.

HONORS AND AWARDS

- CORDI-s Fellowship from INRIA 2006–209.
- Travel award for the IEEE International Symposium on Biomedical Imaging, 2008.
- Runner-up among 12 academic institutions for the HCL Technologies Dataquest e-awards 2000.
- Runner-up for the best paper at the national conference Tryst, IIT, Delhi, India, Feb. 2001.
- Recipient of merit scholarship from IIT Roorkee based on academic performance.
- Ranked 652 in the roorkee entrance examination (REE’98) among about 100,000 students.

EXPERIENCE

- **Research assistant** [Ariana Project-team](#), INRIA, Sophia-Antipolis, France, Dec. 2006–Dec. 2009.
- **Senior engineer** [Tata Elxsi](#), Bangalore, India, May–Dec. 2006.
- **Research assistant** [TEES](#), College Station, TX, USA, Aug. 2002–Aug. 2004.
- **Undergrad. research assistant** ISP Lab, [IIT Roorkee](#), Roorkee, India, May 1999–May 2002.
- **Summer intern** [Pentamedia Graphics Ltd.](#), Chennai, India, May–Jul. 2001.
- **Summer intern** [IISc](#), Bangalore, India, May–June 2000.

SKILLS

- Languages: C, C++
- Softwares: MATLAB/Simulink, R, Labview, L^AT_EX
- Database: SQL Server 2003, MySQL, MS Access

ACTIVITIES AND AFFILIATIONS

- Reviewer for Elsevier DSP, IEEE Potentials Magazine, IET Optical Engineering, IEE .
- IEEE member.

REFERENCES

References are available on request.