

Gopal Karemore

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DOB: 24th Dec 1982

University website: <http://research.ku.dk/search/profil/publikationsliste/?personid=342429>

Personal website: <http://WWW.GOPALRK.COM>

OBJECTIVE

Intend to build career with leading corporate of hi-tech environment with committed and dedicated people, which will help me to explore myself fully and realize my potential. Willing to work as a key player in challenging and creative environment.

EDUCATION QUALIFICATION

- (BE) Bachelor of Electronics Engineering from Pune University in 2005
- (MS) Master of Science in Medical Software from Manipal University in 2007
- (Phd) Currently Pursuing Phd in Dept. of Comp Science at University of Copenhagen, Denmark.

PROGRAMMING SKILLS

- Programming languages: C, VC++,C#.NET, HTML 5.0,JAVA
- Operating Systems : Windows 2000 Server Family, XP
- Application Software: MATLAB 7.0,R, ITK, VTK

INDUSTRY EXPOSURE

- (2008-2011) currently working as a **Phd research scholar** with an interest in Breast Cancer risk assessment using shape and texture of mammograms at University of Copenhagen in collaboration with Nordic Bioscience Imaging A/S, Denmark.
- (2007) **Guest Scholar** at The Department of Bioinformatics, The Fraunhofer Institute for Algorithms and Scientific Computing, Germany. Worked on Shape based image segmentation in application to Chemical Structure Reconstruction CSR.
- (2007) **Research Consultant** in Imaging Labs, GE Global Research, John F Welch Technology Center , Bangalore, India
- CT Perfusion imaging for detection of Ischemic Stroke (Segmentation of WT,GT and CSF to evaluate Penubra and Infarct region) RSNA 2007 work.
- Vessel Partitioning, Brain Tissue labeling and Non rigid registration for atlas based segmentation

- (2006-07)**Master Thesis** on Early Detection of Breast Cancer using Ultrasound at Philips Medical System, Bangalore, India.
- (2005-2007) Worked as a **junior research scientist** on Female cancer project at Manipal University.
- (2005-07) Improved Techniques for the Classification of Cancerous Data collected by optical pathology using HPLC-LIF
- (2003-04) **Bachelor thesis** on Intelligent Unmanned Battle Tank (Real Time Pattern Recognition and Feature Extraction): This project has got Sponsorship from (V.R.D.E., Ministry of Defense Govt. of India) in 2005.
- (2005-06) Application development on SIMPUTER using GTK library with Linux Kernel for **PHILIPS BOP for Oral Cancer awareness program** in 2005-06.

SCIENTIFIC PUBLICATIONS:

2010

- Nielsen, Mads; Pettersen, Paola; Alexandersen, P;**Gopal Karemore**; Raundahl, Jakob; Loog, Marco; Christiansen, Claus . *Breast density changes associated with postmenopausal hormone replacement therapy: post hoc radiologist- and computer-based analyses*. Menopause Journal 2010, In Press
- Chen, Chen ; Chernoff, Konstantin ; **Gopal Karemore** ; Lo, Pechin Chien Pau ; Nielsen, Mads ; Lauze, Francois Bernard. *Classification in Medical Image Analysis Using Adaptive Metric KNN*. SPIE Medical Imaging 2010, No. 2010, February 18, 2010, USA
- **Gopal Karemore, M. Nielsen, An Automatic Framework for Assessing Breast Cancer Risk Due to Various Hormone Replacement Therapies (HRT) : A novel CAD application in Digital Mammography. Accepted to RSNA 2010, USA.**
- **Gopal Karemore** et al, *Relevance of Echo-structure and texture features: An application in ultrasound breast tumor classification*, 22nd European Congress on medical ultrasound 2010, Denmark, (Accepted).
- **Gopal Karemore** et al , *Anisotropic diffusion tensor applied to temporal mammograms: an application to breast cancer risk assessment*, Accepted at Medical Image Processing-EMBC-2010, IEEE conference in Engineering in Medicine and Biology Society, Argentina.
- **Gopal Karemore** et al , *Classification of protein profiles using fuzzy clustering techniques: An application in early diagnosis of oral, cervical and ovarian cancer*, Accepted at Biosignal Processing-EMBC-2010, IEEE conference in Engineering in Medicine and Biology Society, Argentina.

2009

- Gopal Karemore et al, *Fractal Dimension and Lacunarity analysis of mammographic patterns in assessing breast cancer risk related to HRT treated population: A Longitudinal and Cross-sectional study* , Progress in biomedical optics and imaging , SPIE Proceedings, 2009, Volume 10 (2) 2009, USA.
- Gopal Karemore et al, *Protein profile study of clinical samples using Laser Induced Fluorescence as the detection method: Case of malignant and normal cervical tissues*, Advanced Biomedical and Clinical Diagnostic Systems VII, SPIE proceedings, Volume 7169 (2009), pp. 71691-8 (2009), USA.
- Gopal Karemore et al , *Serum Protein Profile Study of Clinical Samples Using High Performance Liquid Chromatography-Laser Induced Fluorescence: Case of Cervical and Oral Cancers* , Imaging, Manipulation, and Analysis of Biomolecules, Cells, and Tissues VII , SPIE proceedings, Vol. 7182, 71820J (2009),USA.
- G. Karemore et al , *Automatic Consistent Registration Framework for temporal pairs of mamogram: In application to breast cancer risk assessment due to HRT (Hormone Replacement Therapy)*, International Journal of Computer Assisted Radiology and Surgery, In proceedings of CARS 2009, Volume 4, Supplement 1, June, 2009 , Berlin, Germany.
- Nielsen, Mads; Raundahl, Jakob; Pettersen, Paola; Loog, Marco;Gopal Karemore; Karsdal, Morten; Christiansen, Claus , *Low dose transdermal estradiol induces breast density and heterogeneity changes comparable to those of raloxifene*, Menopause Journal, August 2009 Volume 16 - Issue 4 - pp 785-791, 2009.
- Gopal Karemore et al, *Yet Another Mammography Measure to Evaluate Breast Cancer Risk*, 4th International workshop on Breast Densitometry and the 1st International Workshop on Mammography-based Assessment of Breast Cancer Risk, 2009, USA.
- Gopal Karemore et al , *An Automatic Framework for Assessing Breast Cancer Risk Due to Various Hormone Replacement Therapies (HRT)*, 4th International workshop on Breast Densitometry and the 1st International Workshop on Mammography-based Assessment of Breast Cancer Risk, 2009, USA.
- Gopal Karemore et al, *Fractal Analysis: In Application to Breast Cancer Risk assessment*, Summer school on manifold learning in image and signal analysis, August 17 - 21, 2009, Ven, Sweden.

2008

- Gopal Karemore et al, *Classification of Laser Induced Fluorescence Spectra from Normal and Malignant bladder tissues using Learning Vector Quantization Neural Network in Bladder Cancer Diagnosis* , 8th IEEE International Conference on Bioinformatics and Bioengineering, BIBE 2008, Athens, Greece.

2007

- Gopal Karemore, et al, ***Markov Random Field in Image Segmentation***, International Conference on Stochastic Process and Application, July 16, 2007, Indian Institute of Science (IISC), Bangalore, India.
- Gopal Karemore et al , ***Analysis of protein profiles using fuzzy clustering methods: Case of malignant and normal cervical tissues*** , International Symposium on Frontiers in Functional Genomics, IACR Conference, Ahmadabad, India
- Gopal Karemore et al, ***Fuzzy clustering of Protein Profiles Recorded using High Performance Liquid Chromatography -Laser Induced Fluorescence (HPLC-LIF) Technique***, First Asian Spectroscopy conference & Asian Biospectroscopy Conference, ASC07, 29th -2nd Feb-2007, TH-30, pg 230, Indian Institute of Science (IISC), Bangalore, India.

2006

- Gopal Karemore et al , ***Serum Protein Profile Analysis using Fuzzy clustering Technique with Sammon Visualization***, International Satellite meeting on Computational Insights into Biological Systems, CIBS06,pg 156, Indian Institute of Science (IISC), Bangalore, India.
- Gopal Karemore et al, ***Boundary Extraction of breast Masses on Ultrasound by Gibbs Sampled Hidden Markov Model***, 11th National Conference on Breast Cancer, Breastcon-2007, Manipal, India

INTERNATIONAL SCHOLARSHIP AND MEMBERSHIP

- Phd Scholarship at **Medical Image Analysis Group**, (Simon Fraser Univ. in collaboration with British Columbia University, Canada).
- Phd scholarship at Image group, Dept. of computer science, **University of Copenhagen**, Denmark.
- Phd Scholarship at **MINOS group**, University Rovira Vergili, Spain.
- Member Indian Association of Cancer Research **IACR**.
- Member European Association of Cancer Research **EACR**.
- Member Radiological Society of North America **RSNA**.

INDUSTRIAL VISIT & COLLABORATIONS

- Center for Advanced Imaging Research, Mayo Clinic, Rochester, MN (USA).
- Epidemiology Dept- Mayo Clinic, USA.
- Dept of Applied Mathematics, University of California, Berkeley, USA.

- Dept. of Computer Science, UC-Berkeley, USA.

ACADEMIC AWARDS

- All India rank 12 in MEAT-2005 Entrance Examination for MS in Medical Software.
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- Maharashtra Rank 63Rd in Pre-Medical Test (MH-CET-2000).
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- Pune University Subject Topper in 2001.
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- Elected as a President of student wing in 10+2.
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- Former Member of ISTE (Indian Society for Technical Education).
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- Former Member of ESA (Electronic Students Association).

REFERENCE

Prof. Dr. Mads Nielsen

Head of Image Group
Dept. of Computer science
University of Copenhagen
Denmark
Email: Available on Request

Prof. Dr. Santhosh C.

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Sami Brandt

Adjunct professor
Machine Vision Group at University of Oulu, Finland.
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I hereby declare that the information furnished above is true to the best of my knowledge.
Place: Nordic Bioscience Imaging A/S, 2730, Herlev, Denmark
Date: March 27, 2010 (Gopal Karemore)