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Department of Computer Science and Engineering
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Research Interests: Computer Vision, Pattern Recognition, Document Image Analysis

Education: Ph.D., Texas Tech University, Electrical Engineering, August 1982
Dissertation Topic: Digital Image Restoration, Advisor: J.F. Walkup
M.S., Electrical Engineering, Texas Tech University, May 1980
B.E. (Electrical), Bangalore University, India, 1968

Professional Experience:

Aug. 2003-present: Douglas W. Hood Professor, Department of Computer Science and Engineering, University of South Florida
2003-2007: Chair, Computer Science and Engineering Department
Sept. 1982 - 2003: The Pennsylvania State University
1982-86: Assistant Professor of Electrical Engineering
1986-95: Associate Professor of Electrical Engineering, tenured in 1988
1995-2003: Professor of Computer Science and Engineering and Electrical Engineering
Aug. 1999 - Dec. 99: Fulbright Visiting Professor, Indian Institute of Science, Bangalore
May 1991 - Aug. 91: Summer Visiting Professor, NASA Langley Research Center
Sept. 1989 - May 90: Visiting Scholar (on sabbatical from Penn State), Artificial Intelligence Lab., Department of EECS, University of Michigan
Sept. 1978 - Aug. 82: Part-time Instructor and Research Assistant, Department of Electrical Engineering, Texas Tech University
June 1976 - Aug. 78: Engineering Officer, Visvesvaraya Industrial and Technological Museum, Bangalore, India
May 1969 - June 76: Research and Development Engineer, VHF Communication Systems Group, Bharat Electronics Ltd., Bangalore, India
Sept. 1968 - April 69: Engineering Trainee: Mysore Electrical Industries Ltd., Bangalore, India

Honors and Awards:

[Richard E. Merwin Award for Distinguished Service](#), IEEE Computer Society, 2015
Commencement Speaker and Chief Guest, IIIT, Bangalore, India, 2007
Elected Fellow, IEEE, 1996 (selection limited to at most 0.1% of total membership each year)
Elected Fellow, IAPR (International Association for Pattern Recognition), 1996 (selection limited to at most 0.25% of total membership every two years)
Fulbright Scholar, 1999
[Penn State Engineering Premier Research Award](#), 2002
[Penn State Engineering Outstanding Research Award](#), 1996
Elected to [Texas Tech Electrical Engineering Academy](#), 1997
Invited panelist at IEEE 125th Anniversary Media event on "[Emerging, World Changing](#)"

[Technologies: Embracing Human Technology Interactions](#)", New York City, 2009
 Outstanding Advising of Honors Theses Students, IEEE Student Branch, Penn State, 1989
 IEEE CS Golden Core Member, Meritorious Service (several), Certificates of Appreciation (several),
 Distinguished Visitor
 IAPR Meritorious Service and Certificates of Appreciation (several)

Leadership Responsibilities:

President and Chair of the Board of Governors, *IEEE Computer Society*, 2008; President-elect, 2007;
 Chair, IEEE President's *Focus on India* initiative, 2008 and Co-Chair, *IEEE India Ad Hoc Committee*, 2009. Vice President, Member and Geographic Activities, 2011; First Vice President, Conferences and Tutorials, 2006; Treasurer, 2004-2005; Vice President, Publications, 2001-2003; Member of the Executive Committee and Board of Governors, 2001-2009, 2011
 President, *International Association for Pattern Recognition*, 2002-2004; First Vice President, 2000-2002; Second Vice President, 1998-2000; Member of the Executive Committee, 1998-2006
 General Co-Chair, *International Conference on Pattern Recognition*, 1,100 Delegates from 47 countries, Tampa, 2008
 General Co-Chair, *IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, 2001
 General Co-Chair, *International Conference on Document Analysis and Recognition*, 1999
 Editor-in-Chief, *IEEE Transactions on Pattern Analysis and Machine Intelligence*, 1995-1998
 Editor-in-Chief, *Machine Vision and Applications Journal*, 1993-94
 Chair, Department of Computer Science and Engineering, USF, August 2003 - December 2007
 Acting Director, Computer Engineering Program, Penn State University, 1990-91

Professional Activities (other than those listed above):

Chair, IAPR Advisory Committee, 2016-18
 Member, IEEE CS Merwin Award Committee, 2015-17
 Member, IEEE CS Nominations Committee, 2016
 Member, Strategic Planning Committee, IEEE Publications Board, 2015
 Chair, IEEE CS Presidential Term Advisory Committee, 2015
 Member, IEEE CS Constitution and Bylaws Committee, 2014-15
 External Advisory Board, HRL Laboratories, California, 2014
 Participant (as Project co-PI), NSF CI Fellows Workshop, San Francisco, 2014
 Member, IEEE Fellows Committee, 2013
 Member, IEEE TAB/PSPB Products and Services Committee, 2013
 Member, *Board of Governors*, Computing Research Association, 2009-12
 Chair, *ICPR Standing Committee*, International Association for Pattern Recognition, 2008-14
 Co-PI (one of several), The NSF Computing Innovation Scholars Project, (PI: Peter Lee, Carnegie Mellon University), this new program created about 100 post-doctoral scholarships in Computer Science and related disciplines, managed by Computing Research Association, 2009-11, \$15 Million
 Chair, *Membership Committee, Nominations Committee, Inter-Society Cooperation Committee, and Personnel and Compensation Committee*, IEEE Computer Society, 2009
 Member, *IEEE Executive Director Search Committee*, 2008-09
 Chair, *Planning Committee and Constitution and Bylaws Committee*, IEEE Computer Society, 2007
 Member, *Nominations Committee, Finance Committee and Personnel and Compensation Committee*, IEEE Computer Society, 2007
 General Co-chair, *Indian Conference on Computer Vision, Graphics, and Image Processing*, 2006
 Co-chair, *Transformation Planning Committee*, IEEE Computer Society, 2006
 Member, *Transformation Task Force*, IEEE Computer Society, 2006

Co-Chair, *Presidential Task Force on Conference Business Model*, IEEE Computer Society, 2006
 Member, *Indirect Infrastructure Ad Hoc Committee*, IEEE TAB FinCom, 2005
 Member, *Periodicals Packages Committee*, IEEE TAB, 2004-2005
 Member, *IEEE Technical Activities Board Periodicals Committee*, 2001-2005
 Member, *IEEE Publication Services and Products Board*, 2001-2003
 General Co-Chair, Technical Program, *International Conference on Pattern Recognition*, Quebec City, 2002
 Chair, Transactions Operations Committee, *IEEE Computer Society*, 2000
 Governing Board Member, IAPR, 2000-2010
 Associate Editor, *International Journal of Document Analysis and Recognition*, 1998-2009
 Associate Editor, *Machine Vision and Applications* journal, 1995-2005
 Associate Editor, *Pattern Recognition*, 1994-2009
 Guest Editor (with K. Bowyer and P. Flynn), 20th Anniversary Special Issue of *IEEE Transactions on Pattern Analysis and Machine Intelligence*, 2000
 Chair, *Transactions Review Committee*, IEEE Computer Society, 2000
 Chair, Editor-in-Chief Search Committee, *IEEE Transactions on Pattern Analysis and Machine Intelligence*, 2000
 IAPR Representative to the *International Federation of Information Processing Societies*, 1998-2000
 Local Arrangements Chair, *International Conference on Document Analysis and Recognition*, IAPR, Bangalore, India, September 1999
 Member, *Transactions Operations Committee and Publications Board*, IEEE Computer Society, 1995-98
 Member, Editorial Board, *Encyclopedia of Electrical and Electronics Engineering*, John Wiley, 1996-97
 Program Co-Chair, *International Conference on Document Analysis and Recognition*, IAPR, Montreal, Canada, August 1995
 General Chair, *IAPR Workshop on Graphics Recognition*, 1995
 Chair, Publications and Publicity Committee, IAPR, 1992-94
 Associate Editor, *IEEE Transactions on Pattern Analysis and Machine Intelligence*, 1991-94
 Guest Editor (with L. O'Gorman), *Computer*, Special issue on Document Image Analysis Systems, IEEE Computer Society, July 1992, *Machine Vision and Applications*, Special issues on Document Image Analysis Techniques, Springer-Verlag, August 1992 and May 1993
 General Co-Chair, *IAPR Workshop on Machine Vision Applications*, Tokyo, November 1990
 Chair, Technical Committee on Graphics Recognition, IAPR, 1988-92
 Program committee member at the following conferences and workshops (1991-2004; have not been tracking these since 2004):
 International Conferences on Document Analysis and Recognition, St. Malo, France, 1991 and Tsukuba Science City, Japan, 1993, Ulm, Germany, 1997, Seattle, Washington, 2001
 International Conferences on Pattern Recognition, The Hague, 1992, Jerusalem, 1994, Vienna, 1996, Barcelona, 2000, Cambridge, UK, 2004
 IEEE Computer Vision and Pattern Recognition Conferences, Seattle, 1994, San Francisco, 1996, San Juan, PR, 1997, Santa Barbara, 1998 (Area Chair)
 Symposiums on Document Analysis and Information Retrieval, Las Vegas, 1993 and 1994
 IAPR Workshop on Syntactic and Structural Pattern Recognition, Haifa, Israel, 1994
 IAPR Workshop on Image Databases and Multimedia Search, Amsterdam, 1996
 IAPR Workshop on Visual Form, Capri, Italy, 1997, 2001
 IEEE Workshop on Content-based Access of Image and Video Libraries, San Juan, Puerto Rico, 1997
 Second International Conference on Visual Information Systems, San Diego, 1997, Amsterdam, 1999
 International Workshops on Graphics Recognition, Nancy, France, 1997, Jaipur, India, 1999
 First and Second Brazilian Symposiums on Document Image Analysis, Curitiba, Brazil, 1997
 Asian Conferences on Computer Vision, Hong Kong, 1998, 2000, Melbourne, 2002
 Vision Interface, Canada, 1998, 1999

Indian Conferences on Computer Vision, Graphics, and Image Processing, New Delhi, 1998,
Bangalore, 2000
International Conference on Artificial and Computational Intelligence, Tunisia, 2000
IEEE Workshop on Applications of Computer Vision, Palm Springs, CA, 2000
IAPR Workshop on Document Analysis Systems, Rio de Janeiro, 2000
Session chairman at numerous conferences
Invited speaker at numerous institutions and conferences
Tutorial speaker at numerous events
Consultant, United Nations Development Program TOKTEN in India, 1993
Consultant, AT&T Bell Labs, 1990-92

Service to the Department and University:

At the University of South Florida:

University Class Scheduling Advisory Committee	2003-2004
Search Committee, Assistant VP, Institutional Research	2004-2005
Numerous other committees in my role as the Chair of CSE department (ABET visit in 2007 - CS and CE Programs received full accreditation)	2003-2007
Search Committee, Electrical Engineering Department Chair	2009
Search Committee, Provost and Executive Vice President	2009
Several departmental committees	2008-present
Search Committee, Dean of the College of Engineering	2013-2014
Member, Global Citizenship Project, Engineering Representative	2014-2017
Member, Search Committee, Dean of the College of Engineering	2014
Chair, Department's T&P Committee	2014
Chair, Department Chair Search Committee	2015-16
College of Engineering Faculty Governance Committee	2015-16, Chair Member 2014-17

At Penn State:

CSE Personnel Committee - Faculty Recruitment	1997-99, 2000-2003
CSE Publications Committee	2002-2003
CSE Department Head Search Advisory Committee	2000-2001
CSE Awards Committee (Chair 2000-2001)	1999-2001
IST-CSE Building Committee	2000-2001
College Endowed Professor Evaluation Committee (Chair: 2001-02)	2000-02
CSE ABET-2000 Planning Committee	1998-99
CSE Promotion and Tenure Committee (Chair 1995-97)	1995-99
CSE Strategic Planning Committee	1997-98
CSE Department Head Search Advisory Committee	1996-97
Evaluation Committee, Operations Research Program	1996
CSE Graduate Committee	1994-97
CSE Climate Committee:	1993-95
Engineering Advising Center, Faculty Representative:	1993 - 94
Computer Engineering Area Committee (EE):	1993 - 94
Electrical Engineering Laboratory Committee:	1993 - 94
Implementation Team, CS and Computer Engineering Merger	1993
EE Space Committee:	1992 - 93, 90 - 91
EE Personnel Committee (Faculty Recruiting):	1991
EE Promotion and Tenure Committee:	1990-93, 88 - 89
Faculty Coordinator, PC Lab	1990 - 93
Acting Director, Computer Engineering Program:	1990 - 91

EE Advisory Committee:	1990 - 91
EE Graduate Steering Committee:	1987 - 89
Systems Manager, Computer Engineering Research Lab:	1985 - 93
EE Department Head Search Committee:	1985 - 86
Singer Professorship Search Committee:	1984 - 86
Leonhard Professorship Search Committee:	1984 - 86
EE Undergraduate Curriculum Committee:	1983 - 86

Courses Taught (* New courses developed by R. Kasturi):

At USF	CDA 3103 CDA 3201 CAP 4401 *CAP 4410 *CAP 6415 CAP 6638 *CIS 6930 *CIS 6930	Computer Organization Computer Logic Design Image Processing Introduction to Computer Vision Computer Vision Pattern Recognition Document Image Analysis Biometrics
At Penn State	* CSE 597 * CSE/EE 586 CSE/EE 583 * CSE/EE 486 * CMPEN 485 CMPEN 472 EE/CSE 447 * EE/CSE 585 EE 561 * EE/CSE 485 EE 352 EE 305 EE 163 PSU 012	Document Image Analysis Computer Vision Pattern Recognition Fundamentals of Computer Vision Artificial Intelligence Mini/Microcomputers Digital Integrated Circuits Digital Image Processing II Information Theory Digital Image Processing Signals and Circuits Electronic Measuring Systems Electrical Measurements Lights, Camera, Algorithms!
At Texas Tech	EE 3311 EE 3323 EE 231,232 EE 233 EE 234 EE 4332	Electronics I Communication Systems Principles of Electrical Engineering Electrical Systems Analysis Electrical Instrumentation Experimental Problems

Research Projects (R. Kasturi - Sole or lead principal investigator unless indicated otherwise)
Organized chronologically by ending date.

- Image Analysis Techniques for Cartographic Data Processing, *NSF Research Initiation Grant* ECS-8307445 and ECS-8414389, 1983-86, \$53,000
- Singular Value Decomposition for Image Restoration, *Naval Sea Systems Command* (through ARL - Penn State), Co-PI Prof. L.H.Sibul, 1985-86, \$22,600
- Research and Instruction in Image Processing, *AT&T Foundation*, 1985-86, \$26,900
- Graphics Recognition and Interpretation System, *Digital Equipment Corporation*, 1985-89, \$462,440
- Analysis of Image Sequences from Sensors for Restricted-Visibility Operations, *NASA Langley Research Center*, 1992-94, \$207,218
- Center for Intelligent Information Processing, *HRB Systems* (an E-Systems/ Raytheon Company), 1994-95, Start-up funds of \$200,000 cash plus \$100,000 in equipment (S. Kumara, Lead PI)
- Classification of Invoices by Graphical Signature Analysis, *Xerox Document Services Technology Center*, 1995, \$15,000
- A Visual Information Management System, *IBM Shared University Research Program*, 1994-96, \$167,018 (equipment grant based on a research proposal)
- Intelligent Interpretation of Central Office Engineering Drawings, *NYNEX Corporation*, 1992-97, \$526,602
- A Vision-based Obstacle Detection System for Aircraft Navigation, *NASA Ames Research Center*, Co-PI O. Camps, 1994-97, \$321,567
- An Evaluation of the State-of-the-Art in Video Indexing, *Department of Defense*, 1995-98, \$282,828
- Performance Characterization of Obstacle Detection Algorithms for Aircraft Navigation, *NASA Ames Research Center*, Co-PI O. Camps, 1997-99, \$343,380
- Video Text Detection, *Department of Defense*, 1998 - 2001, \$389,694
- Obstacle Detection for Rotor-craft Navigation, *NASA Ames Research Center*, Co-PI O. Camps, 2000-02, \$93,650
- Performance Evaluation of Video Object Detection and Tracking Algorithms, *Department of Defense*, July 2001 - June 2003, \$274,275
- Obstacle Detection for Aircraft Navigation Using Infrared Images, *NASA Ames Research Center*, Co-PI O. Camps, 2002-03, \$59,950
- Biometric Technology Study, *DoD (through STS International) and Florida High Technology Corridor Matching Grant*, CoI D. Morel, J. Zayas-Castro, S. Sarkar, and R. Sankar, Aug. 2003 - May 2006, \$1,200,000
- Performance Evaluation for VACE Phase 2, *DTO-ARDA (NSA - DoD)*, Co-PI D. Goldgof, Sept. 2004 - May 2007, \$1,960,411.
- Research and Education in Pattern Recognition, *USF Investment in Graduate Education and Research*, Aug. 2007- Dec. 2009, \$1.0 Million
- Tactical Networks and Workforce Training, *TeamTACLAN (US SOCOM)*, Co-PI J. Zayas-Castro, 2007 - 2009, \$1,645,000 Million
- Baseline for Impact Assessment of Zooplankton and Imaging Oil Droplet Detection on West Florida Shelf, BP/FIO - Gulf Oil Spill Prevention, Response and Recovery Grants Program, 9/1/2010 - 8/31/2012, (Co-PIs, J. Cohen, K. Daly, D. Goldgof, L. Hall, R. Kasturi), \$377,310
- Annotation and Scoring Task for NeoVision2 Software Evaluation, SET Corporation (DARPA), (Co-PI: D. Goldgof), June 2011-June 2012, \$80,000
- S. Katkoori and R. Kasturi, "Smart Parking Guidance System Demonstration Project," Student Green Energy Fund, USF through CUTR, \$80,000, 2014
- Identity Assurance using Biometrics for Cybersecurity, Florida Center for Cybersecurity, 2015-16, (CoPI: M. Shah, UCF), \$40,000
- Development of Automated Pedestrian Detection at Signalized Intersections, CUTR/FDoT, PI: P-S Lin, 2016-17, \$240,690

Selected but Unfunded

Florida Imaging and Recognition Systems and Technology Center of Excellence (with UCF), \$11.7M 2008 (selected by Florida Technology, Research, and Scholarship Board after extensive peer review but the Florida legislature redirected the allocated funds after the process was completed)

Miscellaneous Grants (not associated with a specific research project)

Image and Signal Processing Research Laboratory, *Penn State Alumni Fund*, College of Engineering, 1985, \$50,900

SPIE Educational Grant, *SPIE*, 1986, \$1,500

AT&T Computer Equipment Donation (coordinator), *AT&T*, 1985-1988, \$1,091,625

Analysis of Fourier Images for Semiconductor Wafer Monitoring, *Semiconductor Research Corporation*, (R. Jain - Principal Investigator); part of my sabbatical salary was covered through this research at the University of Michigan, 1990, \$10,000

NASA/ASEE Summer Faculty Fellowship, *NASA Langley Research Center*, 1991, \$10,000

Preparation of the text book, Introduction to Machine Vision by Jain/Kasturi/Schunck, *McGraw-Hill*, 1994-95, \$10,000

First International Workshop on Graphics Recognition (held at Penn State), *Department of Defense*, 1995, \$39,942

Robust Purposive Vision Lab (Equipment), *NSF/CISE Instrumentation*, Co-PIs O. Camps, M. Sznaier, 1996, \$135,234

Gift to Computer Vision Research Laboratory by *Hwa-Tse Liang*, a former advisee, \$40,000

Patents

P.K. Mohanty, S. Sarkar and R. Kasturi, Reconstruction of Biometric Image Templates Using Match Scores, Patent US 8,165,352 B1, April 24, 2012

P.K. Mohanty, S. Sarkar and R. Kasturi, Indexing Face Templates Using Linear Models, Patent US 8,331,632 B1, December 11, 2012

Professional Memberships

IEEE, Life Fellow

ACM, Sigma Xi, Eta Kappa Nu, Optical Society of America, SPIE (past memberships)

Theses and Dissertations Supervised

- G. Zamzmi, Infant Pain Analysis (topic), Ph.D. 2017, (coadvisor D. Goldgof), in progress
- A. Modi, Pedestrian detection at traffic intersections (topic), MS, 2017, in progress
- M. Fathollahi, *Estimation of human pose categories and material classes from motion trajectories*, Ph.D. 2017, (coadvisor S. Sarkar)
- S. Hinduja, Pedestrian Detection in Low Quality Moving Camera Videos, MS, 2016
- J. Viswanathan, Video Data Collection for Continuous Identity Assurance, MS, 2016
- J. Zhang, *Extraction of Text Objects in Image and Video Documents*, Ph.D. 2012
- J. Candamo, *Boundary Profile Representation for Objects and Their Surroundings in Outdoor Videos*, Ph.D. 2009, (coadvisor D. Goldgof)
- H. Vajaria, *Diarization, Localization and Identification of Participants in Meeting Archives*, Ph.D., 2008, (coadvisor S. Sarkar)
- P.K. Mohanty, *Learning from Biometric Distances Performance and Security Related issues in Face Recognition System*, Ph.D., 2007, (coadvisor S. Sarkar),
- V. Kamath, Use of random subspace analysis on gene expression profiles to enhance the accuracy of survival prediction for colon cancer patients, M.S., 2005
- J.H. Park, *Manifold Learning in Computer Vision*, Ph.D., 2005 (coadvisor H. Zha)
- J. Min, *Human Activity Recognition Using Motion Trajectories*, Ph.D., 2005 (coadvisor O. Camps)
- V. Mariano, *Video Object Detection and Matching*, Ph.D., 2003
- S.Antani, *Video Content Characterization via Robust Recognition of Scene and Caption Text*, Ph.D., 2001
- D. Crandall, *Detection of Stylized Text in Video*, M.S. CSE and BS (Honors), May 2001
- M.Yang, *An Automatic Scheduler for Real-time Vision Applications*, Ph.D., Dec. 2000
- T.Gandhi, *Image Sequence Analysis for Object Detection and Segmentation*, Ph.D., May 2000
- U.Gargi, *Visual Content Characterization and Similarity Retrieval of Images and Video*, Ph.D., Dec. 1999
- P.Tofani, *Segmentation of Text from Color Map Images*, MS, CSE, May 1998
- S.Devadiga, *Detection of Obstacles in Monocular Image Sequences*, Ph.D., August 1997
- S.Natarajan, *A Hierarchical Scheme for Invoice Classification*, MS, CSE, August 1997
- J.Arias, *Efficient Techniques for Line Drawing Interpretation and Their Application to Telephone Company Drawings*, PhD, August 1995
- A.Prasad, *A System for the Intelligent Interpretation of Text from Telephone Company Drawings*, MSCmpE, August 1995
- P.Devaux, *An Experimental Verification of a System for the Automated Interpretation of Engineering Drawings*, MSEE, May 1995
- Y.L.Tang, *An Airborne Vision System for Runway Recognition and Obstacle Detection*, Ph.D., August 1994
- S.Balasubramanian, *Information Extraction From Tabular Drawings*, MSEE, May 1994
- C.P.Lai, *Knowledge-based Understanding of Engineering Drawings*, Ph.D., June 1993
- S.Chandran, *Structural Recognition of Tabulated Data*, MSCmpE, 1993
- S.U.Kumar, *Text Data Extraction from Microfilm Images of Punched Cards*, MSCmpE, 1992
- S.C.Chennubhotla, *Pose Clustering on Constraints for Object Recognition*, MSEE, 1991
- D.B.Lysak, Jr., *Interpretation of Engineering Drawings of Polyhedral and Non-polyhedral Objects from Orthographic Projections*, Ph.D., 1991
- R.Raman, *Beautification of Hand-drawn Line Drawings*, MSCmpE, 1990
- W.C.Feng, *A Learn-By-Example Natural Language Processor Based on Case Frame Instantiation*, MSCmpE, 1990.
- M.Amlani, *A Query Processor for Map-based Information System*, MSEE, 1989
- D.Amamoto, *Tissue-type Discrimination using Image Processing and Pattern Recognition Techniques on Magnetic Resonance Images*, MSEE, 1989

- R.J.Fernandez, *Extraction of Feature Overlays for Query Processing in a Geographic Information System*, MSEE, 1989.
- U.B.Mokate, *An Algorithm for Recognition of Circles in Graphics*, MSEE, 1988
- W.El-Masri, *Recognition and Description of Graphical Primitives*, MSEE, 1988
- J.Shah, *Vector Representation of Raster-Scanned Images*, MSEE, 1988.
- J.R.Gattiker, *An Improved Algorithm for Text Segmentation in Mixed Text/Graphics Documents*, MSEE, 1988.
- C.C.Shih, *Automated Encoding Method for Converting a Raster-Scanned Image into a Vector Representation in Graphics Applications*, MSEE, 1987.
- H.Halliyal, *Speech Recognition System for Kannada Language*, MSEE, 1987
- A.R.Jham, *Application of the Singular Value Decomposition to Digital Image Processing and Wigner-Ville Distribution*, MSEE, 1986
- B.S.Satyanarayana, *A Frame Grabber System for Color Image Processing*, MSEE, 1986
- J.Aleman, *An Image Processing System for Interpretation of Paper-based Maps*, MSEE, 1986
- L.A.Fletcher, *Automated Text String Separation from Mixed Text/Graphics Images*, MSEE, 1986
- T.J.Amin, *A Computer-Based System for Cartographic Data Interpretation*, MSEE, 1985
- R.L.Tutwiler, *Adaptive Restoration of Atmospherically Degraded Images*, MSEE, 1985

M.S./M.Eng. Papers Supervised

- N. Muralidhar, *Collection of Training Data for OCR of Kannada Characters*, 1999
- S. Antani, *Pattern Recognition Methods in Image and Video Databases Past, Present, and Future*, 1998
- H. Luo, *Interpretation of Lines in Distributing Frame Drawings*, 1998
- G.Shashikumar, *Analysis of Video Images for Automated Indexing*, 1994
- Y.L.Tang, *A Model Based Approach for Detection of Objects in Low Resolution Passive Millimeter Wave Images*, 1993
- J.Tyson, *Classification and Recognition of Invoice Documents*, 1993
- S.Siva, *Efficient Extraction of Polygonal Shapes from Document Images*, 1991
- C-H.Chen, *Recognition and Description of Two-Dimensional Shapes in a Line-Drawing Image*, 1991
- E.Yeh, *Applications of Digital Image Processing Techniques to the Automated Diagnoses of Human Brain*, 1991
- Y-M.Chen, *A Users' Manual for VAX PHIGS Software*, 1991
- Y.Nadarajah, *Architectures for Image Processing*, 1988
- H.T.Liang, *Automatic Searching of Shortest Path in Maps*, 1988
- G.A.Jividen, *A Survey of Image Processing Techniques for Angiograms*, 1988
- W.K.Sze, *An Interface Card for AT&T 3B2 Computer*, 1987
- M.I.Kahn, *Collision Free Path Planning in Unstructured, Dynamic Environments for Mobile Robots and Manipulators*, 1987
- Y.Choe, *Two-Dimensional Multiresolution Matching Algorithm*, 1987
- J.Yi, *Edge Detection Techniques - A Survey*, 1987
- M.C.Chen, *Thresholding and Edge Detection Techniques in Computer Vision*, 1987
- R.T.Yu, *Design of a Voice Digitizer Circuit for IBM PC*, 1986
- O.A.Morean, *Paradigms in the Collision Free Path Planning of a Computer Controlled Mobile Robot*, 1984

B.S. (Honors) Theses Supervised

- Oluwabukola Akinbo, *Visual Memory Assistant Portable Facial Recognizer*, 2006
- S. Moscariello, *Java Image Processing*, 1997
- S.Oswald, *Hierarchical Segmentation of Video Sequences*, 1995
- M.Lebold, *Speech Recognition System for Home Automation*, 1995

- J.Bolch, *Color Digital Image Processing on a Personal Computer*, 1989
P.Gyugyi, *Automated Identification of Brain Tumors Using Magnetic Resonance Images*, 1988
W-C.Feng, *ENLIM A Natural Language Interface for Paper-based Map Information System*, 1988
W.R.Mandel, *Slow Scan Television Frame Grabber*, 1987
N.T.Nguyen, *Microprocessor Controlled Voice Synthesized Real Time Clock*, 1987

Rangachar Kasturi, Ph. D.

Douglas W. Hood Professor
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Tampa, Florida 33620-5399, USA

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Web: <http://www.cse.usf.edu/~r1k/>

Publications

Citations on Google Scholar: Over 10,000, [H-Index](#): 47

Books:

O'Gorman, L. and R. Kasturi, [*Document Image Analysis: Executive Briefings*](#), IEEE Computer Society Press, Los Alamitos, CA, 1997

Jain, R.C., R. Kasturi, and B. Schunck, [*Machine Vision*](#), an introductory text, McGraw Hill, New York, 1995

Book Chapters:

Kong, B., I. T. Phillips, R. M. Haralick, A. Prasad, and R. Kasturi, [*A Benchmark: Performance Evaluation of Dashed-Line Detection Algorithms, in Graphics Recognition: Methods and Applications, Springer-Verlag LNCS 1072:270-285*](#), 1996

Kasturi, R. and K. Tombre, [*Summary and Recommendations, in Graphics Recognition: Methods and Applications, Springer-Verlag LNCS 1072:301-308*](#), 1996

Kosiba, D. and R. Kasturi, *Machine Vision*, in *The Electronics Handbook*, ed. J. Whitaker, CRC Press, pp. 1915-1938, 1996

Kasturi, R., *Image Analysis Techniques for Geographic Information Systems*, in *Image Analysis Applications*, Marcel Dekker, pp. 127-163, 1990

Edited Volumes:

Kasturi, R. and K. Tombre, Editors, [*Graphics Recognition: Methods and Applications*](#), [Post-Proceedings of The First International Workshop on Graphics Recognition (August 1995) Penn State], Springer-Verlag LNCS 1072, Heidelberg, Germany, 1996 (see also Pre-Proceedings of The First International Workshop on Graphics Recognition, Penn State, University Park, PA, August 1995)

O'Gorman, L. and R. Kasturi, [*Document Image Analysis*](#) (contains chapter introductions and reprints of selected papers), IEEE Computer Society Press, Los Alamitos, CA, 1995

Kasturi, R. and R.C. Jain, *Computer Vision: Principles*, a tutorial text (contains chapter introductions and reprints of selected papers), IEEE Computer Society Press, Los Alamitos, CA, 1991

Kasturi, R. and R.C. Jain, *Computer Vision: Advances and Applications*, (contains brief chapter introductions and reprints of selected papers), IEEE Computer Society Press, Los Alamitos, CA, 1991

Kasturi, R. and M.M. Trivedi (editors), [*Image Analysis Applications*](#), Marcel Dekker, New York, 1990

Bow, S.T. and R. Kasturi, [A Graphics Recognition System for Interpretation of Line Drawings, in Image Analysis Applications](#), Marcel Dekker, pp. 37-72, 1990

Kasturi, R. and J.F. Walkup, *Nonlinear Image Restoration in Signal-dependent Noise*, in *Advances in Computer Vision and Image Processing*, ed: T.S. Huang, pp. 167-212, JAI Press, 1986

Patents:

P Mohanty, S Sarkar, R Kasturi, PJ Phillips, [Indexing face templates using linear models](#), US Patent 8,331,632

P Mohanty, S Sarkar, R Kasturi, , R Kasturi, [Reconstruction of biometric image templates using match scores](#), US Patent 8,165,352

Journal Articles:

R Ekambaram, S Fefilatyeve, M Shreve, K Kramer, LO Hall, DB Goldgof, and R. Kasturi, "Active cleaning of label noise," *Pattern Recognition* 51, 463-480, 2016

J. Zhang and R. Kasturi, "A novel Text detection System Based on Character and Link Energies," *IEEE Transactions on Image Processing*, Vol. 23, pp. 4187-4198, 2014

Candamo, J., M. Shreve, D. Goldgof, D. Sapper, and R. Kasturi, "[Understanding Transit Scenes: A Survey on Human Behavior Recognition Algorithms](#)," *IEEE Transactions on Intelligent Transportation Systems*, Vol.11(1):206-224, 2010

Candamo, J., R. Kasturi, D. Goldgof, and S. Sarkar, "[Detection of Thin Lines using Low-Quality Video from Low-Altitude Aircraft in Urban Settings](#)", *IEEE Transactions on Aerospace and Electronic Systems*, Vol. 45(3):937-949, 2009

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