

SELECTED ACTIVITIES

SHIRVAIKAR, Mukul V.

Professional Society Membership:

Senior Member, Institute of Electrical and Electronics Engineers (IEEE), 1986-Present
Member, American Society for Engineering Education (ASEE), 2003-Present
Member, Society of Photo-optical Instrumentation Engineers (SPIE), 1990-Present
Member, Electrical and Computer Engineering Department Heads Association (ECEDHA), 2007-2013
Member, International Engineering Consortium (IEC), 2005-Present
Member, Order of the Engineer, 2004-Present

Significant Professional Service:

ABET Program Evaluator, 2014-Present
Associate Editor, Journal of Medical Imaging and Health Informatics, 2015-Present
Member, Engineering Program Review Panel, Arkansas Higher Education Coordinating Board, 2013.
Member, Tuning Oversight Council for Engineering, Texas Higher Education Coordinating Board, 2010-2011
Member, Technical Committee, SPIE International Conference on Real Time Image and Video Processing, 2007-Present
Associate Editor, Journal of Real Time Image Processing, 2006-Present
Secretary/Treasurer Candidate, ASEE National ECE Division, 2005

University and Public Service:

Departmental Committee Service

Member, Faculty Search Committee, 2014-2015
Member, Departmental Tenure and Promotion Committee, 2013, 2014
Graduate Coordinator, MSEE program, 2007-2013
Departmental SACS Accreditation Coordinator, 2008-2013
Departmental ABET Accreditation Coordinator, 2008-2013
Chair, Faculty Search Committee, 2008
Chair, Staff Search Committee, 2008
Departmental ABET Committees, 2003-Present

College Committee Service

Member, College of Engineering and Computer Science Tenure and Promotion Committee, 2014
Member, Civil Engineering Departmental Tenure and Promotion Committee, 2014
Chair, College of Engineering and Computer Science Tenure and Promotion Committee, 2013
Member, College of Engineering and Computer Science Distance Education Committee, 2010-2013
Member, College of Engineering and Computer Science Strategic Planning Committee, 2007-2013

Member, College of Engineering and Computer Science ABET Planning Committee, 2007-2013
Chair, College of Engineering and Computer Science Computing Review Committee, 2006-2013

University Committee Service

Member, Information Technology Committee, 2014-2016
Member, Graduate Council, 2011-2014
Member, Faculty Recognition Subcommittee, 2013-2016
Member, Provost/Vice-President Academic Affairs Search Committee, 2011-2012
Chair, Computer Science Chair Search Committee, 2012
Member, University Chair's Council, 2011-2013
Member, Texas BRIDGE Alliance Committee, 2011-2012
Member, Provost/Vice-President Academic Affairs Search Committee, 2011
Member, Academic Reorganization and Revitalization Task Force, 2010
Member, Handbook of Operating Procedures Committee, 2009-2011
Member, University Faculty Salary Survey Committee (Ad Hoc), 2009-2010
Member, University Faculty Teaching Evaluation Committee (Ad Hoc), 2008-2009
Member, University Strategic Planning Committee, 2008
Chair, Student Affairs Advisory Council, 2008
Member, Provost/Vice-President Academic Affairs Search Committee, 2007
Chair-elect, Student Affairs Advisory Council, 2007
CECS Senator, Faculty Senate, 2005-2007
Member, CECS Dean Search Committee, 2005-2006
Vice-Chair, Information Technology Advisory Committee, 2005-2006
Vice-Chair, Americans With Disabilities Act II Committee, 2005-2006
Vice-Chair, University and Faculty Governance Senate Committee, 2005-2006
Member, Vice-President Business Affairs Search Committee, 2005
Member, Computer Science Chair Search Committee, 2004-2005
Member, International Affairs Committee, 2003-2004
Member, Commencement, Committee, 2003-2004

Public Service

ABET Program Evaluator, 2014-Present
Member, Engineering Program Review Panel, Arkansas Higher Education Coordinating Board, 2013.
Member, Tuning Oversight Council for Engineering, Texas Higher Education Coordinating Board, 2010-2011
Campus Representative, TETC - Texas Engineering and Technical Consortium, 2008-2009
Candidate for ASEE National ECE Division Secretary/Treasurer, 2005

Judge, ASME Graduate Student Paper Contest, Southwest Region, Letourneau University, 2004

Fostered collaborative efforts with engineering managers from local industries. to setup internship positions, senior design projects and research opportunities: Trane, Weyerhaeuser, Texas Instruments

International Service:

Associate Editor, Journal of Medical Imaging and Health Informatics, 2015-present

Invited external reviewer for Tenure and Promotion, Jordan University of Science and Technology, Irbid, Jordan, 2013

Invited Research Proposal Reviewer, Czech Science Foundation (GACR), 2012

Ph.D. dissertation review board member for a doctoral student at Anna University in Chennai, India, 2007

Member of the Technical Committee, SPIE International Conference on Electronic Imaging, 2007-present

Associate Editor, Journal of Real Time Image Processing, Springer, 2006-present

Conference Service:

Session Chair, SPIE International Conference on Real Time Image Processing, 2008, 2009, 2015

Session Chair, ASEE National Conference and Exposition, June 2005

Book Reviews:

Book Review, Delmar Cengage Learning, 2012

Book Review, NTS Press, 2010

Book Review, Oxford University Press, 2006

Book Review, SPIE Press, 2005

Book Review, Delmar Learning, 2005

Publication Reviews:

Reviewer, *International Journal of Optomechatronics*, 2012, 2013, 2014

Reviewer, *Journal on Progress in Artificial Intelligence*, 2012

Reviewer, *EURASIP Journal on Image and Video Processing*, 2011

Reviewer, *Autosoft Journal - Intelligent Automation and Soft Computing*, 2009

Reviewer, *Journal of Real Time Imaging*, 2004-Current

Reviewer, *Journal of Imaging Science and Technology*, 2004-Current

Reviewer, *Journal of Computer Vision and Image Understanding*, 2004-Current

Reviewer, *Journal of Image and Vision Computing*, 2004-Current

Reviewer, *SSST Conference*, 2003-Current

Reviewer, *ASEE Conference*, 2003-Current

Other Service:

Provided curriculum planning and educational support to Houston Engineering Center instructors for curriculum transfer and laboratory setup, 2013-Present

Recorded Lab Safety Training for Electrical Engineering undergraduate students for audit purposes, 2015

Graduate Recruitment Trip, India, June, 2010

Mentor at the Independent Study and Mentorship (ISM) Business Symposium, Frisco Independent School District, 2012

Organized Electrical Engineering Day for Houston Science Magnet School for Girls Summer Camp, 2012.

Recruitment Trip, San Jacinto Community College, Houston, Texas, 2011

Organized Electrical Engineering Day for High School RISE/DIVE Summer Camp, 2009-2013.

Recruitment Trip, McKinney High School, Texas, 2010

Recruitment Trip, First Robotics Competition, Southern Methodist University (SMU), Dallas, TX, 2010

Society of Hispanic Professional Engineers (SHPE) Student Chapter, Founding Advisor, 2010

Organized "Electrical Engineering Recruitment Workshop", Tyler area high school counselors, 2006

GradNet Faculty Liaison, International Engineering Consortium (IEC), a significant resource for career, ethics, and technical training, 2005-Present

Courses Taught: (The University of Texas at Tyler)

EENG 1301, Engineering the Future: Electrical and Digital Concepts, Fall 2009, 2010, 2011, 2012, 2013, 2014, 2015

EENG 2201, Programming for Engineers, Fall 2004, 2005, 2006

EENG 3302, Digital Systems, Spring 2004, 2005, 2006, 2007, 2008, 2009, Fall 2009, 2010, 2011, 2012, 2013, 2014, 2015

EENG 3307, Microprocessors, Fall 2003, 2004, 2005, 2006, 2007, 2008, Spring 2010, 2011, 2012, 2013, 2014, 2015

EENG 4320, Computer Architecture, Fall 2003, 2004, 2006, 2007, Spring 2015

EENG 4325, Real Time Systems, Spring 2007, Fall 2014

ENGR 4350, Digital Image Processing, Summer 2004, Spring 2014

ENGR 4350, Real Time Systems, Spring 2004, 2005

EENG 4115, Senior Design I, Fall 2004

EENG 4315, Senior Design II, Spring 2005

EENG 4370, Undergraduate Internship, Summer 2008, 2009, 2012

EENG 5336, Real Time Systems, Fall 2014

ENGR 5340, Real Time Systems, Spring 2005, 2006, 2007

ENGR 5340, Computer Architecture, Fall 2005

EENG 5340, Computer Architecture, Spring 2015

ENGR 5340, Digital Image Processing, Summer 2004

ENGR 5340, Real Time Image Processing, Spring 2007

EENG 5340, Digital Image Processing, Spring 2014

EENG 5340, Advanced Microprocessors, Fall 2015

ENGR 5350, Engineering Project, Spring 2005, 2006, 2007, 2008, Fall 2005, 2006, 2007, 2008

ENGR 5650, Engineering Project, Fall 2005, 2007

EENG 5370, Graduate Internship, Fall 2010, Summer 2011, 2012

EENG 5395, Thesis I, Fall 2009, 2010, 2014, 2015 Spring 2008, 2009, 2014, Summer 2008

EENG 5396, Thesis II, Fall 2009, 2010, 2014 Spring 2010, 2011, 2012, 2015 Summer 2008, 2011

ENGR 5399, Independent Study, Spring 2006, Spring 2009, Fall 2009