

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
Life 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:

Student Activities Committee Representative (Branch Communications Coordinator), IEEE Region 5 (R5), 2021-Present.

Student Activities Chair, IEEE Dallas Section, 2019-Present

ABET Program Evaluator, Electrical Engineering, Computer Engineering, 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

Undergraduate Coordinator, BSEE program, 2021-Present

Graduate Coordinator, MSEE program, 2007-2013, 2017-2021

Departmental ABET Accreditation Coordinator, 2008-2013, 2017-Present

Member, Departmental SACS Accreditation Committee, 2014-Present

Member, Departmental Post-Tenure Review Committee, 2016-Present

Member, Departmental Curriculum Redesign Committee, 2018-Present

Chair, Electrical Engineering Chair Review Committee, 2020

Chair, Electrical Engineering Grade Appeal Committee, 2020

Chair, Computer Engineering Curriculum Development Committee, 2018-2021

Member, Faculty Search Committee, 2014-2015, 2015-2016, 2017-2018, 2018-2019, 2019-2020

Member, Departmental Tenure and Promotion Committee, 2013, 2014, 2016, 2018, 2020

Member, MSEE External Program Review Committee, 2014-2015

Member, Departmental Peer Teaching Evaluation Committee, 2014-Present

Departmental SACS Accreditation Coordinator, 2008-Present

Chair, Faculty Search Committee, 2008

Chair, Staff Search Committee, 2008

Departmental ABET Committees, 2003-Present

College Committee Service

Chair, College of Engineering Tenure and Promotion Committee, 2016-2017, 2017-2018, 2018-2019, 2019-2020, 2020-2021

President, College of Engineering Faculty Governance Organization (COEFGO), 2017-2018, 2020-2021

President-Elect, College of Engineering Faculty Governance Organization (COEFGO), 2016-2017, 2019-2020

Chair, College of Engineering 25x25 Strategic Plan – Vision III Team, 2020

Member, College of Engineering Assessment Committee, 2018-Present

Member, College of Engineering Assessment Coordinator Search Committee, 2018

Member, College of Engineering Strategic Planning Committee, 2017-2018

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, University Research Council, 2018-2021

Member, Information Technology Committee, 2014-2020

Member, University Internal Research Grants Review Committee, 2018

Member, Student Academic Success Task Force, 2016-2017

Member, College of Engineering Dean Search Committee, 2016-2017

Member, College of Engineering Dean Search Committee, 2015-2016

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

Student Activities Committee Representative (Branch Communications Coordinator), IEEE Region 5 (R5), 2021-Present.

Student Activities Chair, IEEE Dallas Section, 2019-Present

Invited External Evaluator for New York State Education Department, BS in Electrical Engineering and Computer Engineering, New York University (NYU), 2019.

Member, Evaluation Panel, National Science Foundation Graduate Research Fellowship Program (NSF GRFP), 2019

Member, Evaluation Panel, National Defense Science and Engineering Graduate (NDSEG) Fellowships, 2017, 2018, 2019

ABET Program Evaluator, Electrical Engineering, Computer Engineering, 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

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

Member of the Technical Committee, SPIE International Conference on Real Time Image and Video Processing, 2007-present

Invited external reviewer for Ph.D. Committee, Indian Institute of Technology, Banaras Hindu University, University, Varanasi, India 2020

Invited external reviewer for Ph.D. Committee, Gitam University, University, India 2020

Invited external reviewer for Ph.D. Committee, National Institute of Technology, Kurukshetra, India 2020

Invited external reviewer for Ph.D. Committee, Indian Institute of Technology, Banaras Hindu University, University, Varanasi, India 2019

Invited external reviewer for Tenure and Promotion, Nanyang Technological University, Singapore, 2016

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

Conference Service:

Session Chair, SPIE International Conference on Real Time Image and Video Processing and Deep Learning, 2019, 2020, 2021

Member, Organizing Committee, ASEE Gulf Southwest Conference, Tyler, TX, 2019.

Session Chair, SPIE International Conference on Real Time Image and Video Processing, 2018

Session Chair, SPIE International Conference on Real Time Image Processing, 2008, 2009, 2015, 2017

Session Chair, ASEE National Conference and Exposition, June 2005

Session Chair, SPIE International Conference, Orlando, FL, 1993

Session Chair, SPIE International Conference, Orlando, FL, 1992

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, *ASEE Conference*, 2003-Current

Reviewer, *Medical & Biological Engineering & Computing Journal*, 2017

Reviewer, *Journal of Instrumentation*, 2017

Reviewer, *Optical Engineering*, 2016

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:

Invited Speaker, "Student Leadership Institute," College of Engineering, UT Tyler, Tyler, TX, 2018, 2019, 2020.

UT Tyler IEEE Corona Student Branch Faculty Advisor, 2016-Present

Electrical Engineering Department Web Site Coordinator, 2015-Present

LSAMP Program Mentor, Taylor Ramirez, 2016

MathCounts Competition Volunteer, UT Tyler, 2016

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, 2016, 2017, 2018, 2019, 2020

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, 2016, 2017, 2018, 2019
EENG 3302, Digital Systems Design, Fall 2019, 2020
EENG 3307, Microprocessors, Fall 2003, 2004, 2005, 2006, 2007, 2008, Spring 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020
EENG 4307 Microprocessors and Embedded Systems, Spring 2021
EENG 4320, Computer Architecture, Fall 2003, 2004, 2006, 2007, Spring 2015, 2017, 2019
EENG 4325, Real Time Systems, Spring 2007, Fall 2014, 2016, 2017, 2018
ENGR 4350, Digital Image Processing, Summer 2004, Spring 2014, 2018
ENGR 4350, Real Time Systems, Spring 2004, 2005
EENG 4115, Senior Design I, Fall 2004, 2018, 2019, 2020
EENG 4315, Senior Design II, Spring 2005
EENG 4370, Undergraduate Internship, Summer 2008, 2009, 2012, Spring 2017, 2019
EENG 5336, Real Time Systems, Fall 2014, 2016, 2018
ENGR 5340, Real Time Systems, Spring 2005, 2006, 2007
ENGR 5340, Computer Architecture, Fall 2005
EENG 5340, Computer Architecture, Spring 2015, 2017
EENG 5320, Computer Architecture, Spring 2019
EENG 5322, Image Processing, Spring 2018
ENGR 5340, Digital Image Processing, Summer 2004, Spring 2014, 2016
ENGR 5340, Real Time Image Processing, Spring 2007
EENG 5340, Advanced Microprocessors, Fall 2015, 2017, 2019
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, 2017, 2019 Summer 2011, 2012
EENG 5395, Thesis I, Fall 2009, 2010, 2014, 2015, 2018, Summer 2008, Spring 2008, 2009, 2014, 2017, 2018
EENG 5396, Thesis II, Fall 2009, 2010, 2014, 2018, Summer 2008, 2011, Spring 2010, 2011, 2012, 2015, 2019
ENGR 5399, Independent Study, Spring 2006, 2009, 2018, Fall 2009