THOMAS GEIGER THOMAS JR.

Associate Professor, University of South Alabama Department of Electrical Engineering Mobile, AL 36688 (251)4607516, <u>tthomas@southalabama.ed</u>u

Professional Preparation

University of South Alabama, Chemistry, B.S., June 1977 University of South Alabama, Electrical Engineering, B.S.E.E., March 1984 University of Alabama at Birminghan Electrical Engineering, M.S.E.E., August 1987 University of Alabama in Huntsville, Electrical Engineering, Ph.D., December, 1997

Appointments

University of South Alabama, Mobile, Alabama

x June 2016+presentAssociate Dean fd/nd1rr3996 (r)7.g98 (a)22.r02 (m)7.00 fW* n BT /TT1 11.04 TqQn1

, College of Engineering raduate Program

Director

- x August 1999±August2004: Assistant Professorf Electrical Engineering
- x August 1998±August 1999:Visiting Assistant Professoof ElectricalEngineering
- University of Alabama at Birmingham, Birmingham, Alabama
- x March 1998 ± August 1998: Adjunct Professor
- CMS Research Corporation, Birmingham, Alabama
- x June 1986±November 1995 Senior Enginee DOD secretsecurity clearan /TT2 11.05cTJ ET Q q 0 0 612 75

³Smart Grid Architecture for Unobtrusive Homelealth Monitoring, National Social Science Journablume 44 Number,1 2015

- x Clay V. Smith, Michael V. Doran, Roy J. Daigle and Thomas G. Thomas, (JQ, K D Q F H G 6 L W X D W Awareness in Autonomous Mobile Restorsing Context% D V H G 0 D2813 IEEE International Multi-Disciplinary Conference on Cognitive Methods in Situation Awareness and Decision Support (CogSIMA 2013), San Diego, CA. February-28, 2013.
- x Cade C. Cashen, Samuel H. Russ, Thomas G. Thomas, and Damon A. Edwards, LRQ 'HWHFW Usin J 566, 9DULDQFH LQIEEE Utransactions of \$Cotisumer Electronics, 2012.
- x Thomas, T., Doran, M., Sakalaukus, J., Skinner, TMe, Hardware/Software Codesign of an Autonomous Tour Guide Robot Based on a Human Neuroanatomy, Monoteledings, WORL' & 2 0 3 ¶ / D V 9 H J D V -16, 2009.X O \
- x Thomas, T., Doran, MRobotics to Stimulate Learning Opportunities: A Robot Campus Tour Guide Proceedings7th International Conference on Education and Information Systems, Technologies and

Synergistic Activities

- x S-STEM: Linking Community College Students to Enginee (ingll 2011 ±Fall 2015): Scholarship program to transition promising students from Alabama community colleges to the USA Engineering program (Funded by NSF).
- x Freshman Research Experience in Engineering (FREE) programmer 2012): Worked with 12 incoming freshman engineering students to provide awweek course in LabVIEW and robotics programming using Lego Mindstorm robots. Students learned LabVIEW and critical thinking skills prior to their first semester in engineeri(figunded by NSF).
- x Podcast Development for Nanotechnology Educational 2012: Developeda set of podcasts that were integrated into several sophomore, junior and senior level core courses in Electrical & Computer Engineering (Funded by NSF).
- x B.E.A.C.H.E.S Program at USA (Summer 20172) rticipated in the Bio-Engineering And Chemical Engineering Summer (BEACHES) program for introducing high school stute the strength principles through hands experimentation. (Funded by NASA)
- x JagBot- An Autonomous Robotic Campus Tour Gu(Steinme 2008 ±Summer 2010). Developed a life-sized robotic tour guide to give commons tours to incoming students and fam(Feunded by NSF)
- x Supervised multidisciplinary undergraduate research projects in robotics, fuel cell momentaling, biological signaprocessing for NSF CSEM scholars bip dents Also collaborated with USA Undergraduate Research Council in summer research opportunities for undergraduates in the areas of robotics and fuel cell smart home applications.
- x Collaborated with USA Department Sturgery and with the SA Department of Chemical and Biomolecular engineering in waveleased interpretation on agnetic gastroenterological signals to determine intestinal ischemia.
- x Developed an undergraduate class in instrumentation and data acqbissienthon National Instruments LabVIEW. The course has been taken by USA Electrical, Mechanical, and Chemical Engineering students as well as students from the USA School of Computing.
- x Collaborated with Radiance Corporation bile, Alabama and the USA Department of Electrical and Computer Engineering in the design, construction and operation depression of the smart home. Primarily responsible for the instrumentation of a 5kW PEM fuel cell system used to power the smart home.

Collaborators and other Affiliations

Mohammad S. Alam, Professor and Chair, Department of Electrical and Computer Engineering, USA; Michael V. Doran, Professor, School of Computed Information Sciences, USA ames A. Laier, Associate Dean of Engineering, USA leavesley, Assistant Professor, Department of Chemical and Biomolecular Engineering, USA

Graduate Advisors and Postdoctoral Supervisors

Reza Adhami, Professor **d** Chair, Department of Electrical and Computer Engineering, UAH; Charles Katholi, Professor, Department of Mathematics, UAB; Constantine Katsinis, Professor, Department of Computer and Information Sciences, UAH exander Po