**PROFESSIONAL CV**

**OF**

**MO M. JAMSHIDI, Ph.D., DEng.** ***(h.c.)***

Fellow-Institute of Electrical and Electronic Engineers

Fellow-American Society of Mechanical Engineers

Fellow-American Association for the Advancement of Science

Associate Fellow-American Institute for Aeronautics and Astronautics

Fellow-New York Academy of Science

Fellow-TWAS (The World Academy of Sciences)

Foreign Member Hungarian Academy of Engineering

Foreign Member Russian Academy of Nonlinear Sciences
Work Phone: 1 210 458 7074

Work Fax: 1 210 458 5947  Private Fax: 1 210 479 1048
Emails: moj@wacong.org, mo.jamshidi@utsa.edu
Revised in December 2014

**PRESENT POSITIONS:**

- Lutcher Brow Endowed Distinguished Chair, Department of Electrical and Computer Engineering, University of Texas, San Antonio, TX, USA (University of Texas System Position)
- Member, Chancellor's Council, University of Texas System, Austin, TX, 2012-
- Honorary Professor University of Birmingham, UK, 2012-2017.
- Visiting Professor, Loughbrough University, Loughbrough, UK, 2014-2017.

- Founding Director, Center of Autonomous Control Engineering - ACE, 1995-present (UNM 1995-2006, ACE Laboratory UTSA 2006-present).
- Regents Professor Emeritus of Electrical and Computer Engineering, University of New Mexico, Albuquerque, NM USA, 2006- present.
- AT&T Professor Emeritus of Manufacturing Engineering, University of New Mexico, Albuquerque, NM USA, 1989-present.
- General Chairman, World Automation Congress and former ISRAM - International Symposium on Robotics and Manufacturing (http://wacong.org), 1986- present
- Honorary Professor, Deakin University, Australia, 2010-2014
- Honorary Professor, University of Birmingham, UK, 2012-2017
- Honorary Professor, Obuda University, Hungary, 2012-

**MANAGEMENT POSITIONS:**

- Director, Autonomous Control Engineering Laboratory, University of Texas, San Antonio, 2006-present (supervising 20 students and 1 staff)
- Founding Director, International Consortium on System of Systems Engineering (icsos.org), 2006-present, an industry-academia partnership at global level with close collaboration with Governments and Military, run as a not-for-profit corporation on campus of University of Texas, San Antonio.
- Founding Director, NASA Autonomous Control Engineering Center, University of New Mexico, Albuquerque, NM, 1995-2006, (supervising 35 students and staff, annual expenditure ~ $ 2 ML)
- Founding Chair, Establishing Committee of Manufacturing Engineering Program, University of New Mexico, Albuquerque, NM, 1986-88, currently with a $ 2 ML per year budget and with 2 accredited degree programs.
- Director, CAD Laboratory, University of New Mexico, Albuquerque, NM, 1984-1995.
- Director, University Computing Center, Pahlavi University, Shiraz, IR, 1973-1975. Upgraded and established 2 generations of IBM mainframe computers with responsibilities for all University affairs on the computer (payroll, academic affairs, libraries, purchasing, etc.)
- Director, Hybrid Computing Laboratory, L, University of Illinois at Urbana-Champaign, IL, 1970-1971
- Founding Chairman and Founding Editor of 4 conferences, 2 congresses and 3 journals, including the *IEEE Control Systems Magazine* (1980-1984) and *IEEE Systems Journal* (2006 - 2012) and Annual IEEE International Conference on System of Systems Engineering since 2006.
- Founding Co-Editor-in-Chief, *Int. Journal on Automation and Control*, Inter-Sciences, London, 2006 – present.
- Editor-in-Chief, *Intelligent Automation and Soft Computing Journal* (USA), 2002- present, published by Taylor & Francis Group LLC, UK.

**OTHER MAJOR ACTIVITIES:**

- Co-Founder, TSI Enterprises, Inc., Albuquerque, NM USA (http://wacong.org/tsi) , established in 1980, specializing in educational tools, publishing and conference management.
- Founding Director, University of New Mexico CAD Laboratory for Intelligent and Robotic Systems, 1984 - 1995.
- Co-Founder, Students Scholarship Fund, Inc., of Albuquerque, NM USA (a US IRS - 501C non-profit Corporation, co-founder: Lotfi A. Zadeh) Specializing in raising funds for needy graduate students in science and engineering around the world. (http://wacong.org)
- Editor-in-Chief, *International Journal of Computers and Electrical Engineering*, Elsevier, UK (1989 - 2009)
- Editor-in-Chief, *International Journal of Intelligent Automation and Soft Computing*, TSI Press, US (2002 -- present)
- Co-Editor-in-Chief, *International Journal of Control and Automation*, InterScience Publishers, England (2006-present)
- Founding Editor-in-Chief, *IEEE Systems Journal*, 2006-present (*systemsjounral.org*)
- General Chairman, IEEE International Conference on Systems, Man and Cybernetics, Big Island, Hawaii, USA, Oct. 10-12, 2005 (http://ieeesmc2005.unm.edu).
- Vice President, IEEE Systems, Man and Cybernetics Society, 2003- 2006.
- Board member, IEEE Systems, Man and Cybernetics Society, 2006-2008
- Board member, IEEE Systems Council, 2006- 2012.

**IMMIGRATION STATUS:**
US Citizen since 1992.

**DATE OF BIRTH:**
May 10, 1944

**EXECUTIVE SUMMARY:**

Major Contributions: Jamshidi has a recognized record of engineering contributions in modeling, optimization, CAD & control of large-scale systems - LSS. Seeds of his work were planted with his graduate research at the University of Illinois. In 1969 at Illinois, he formalized an approach to modeling, model reduction & optimal control of LSS. Exploiting plant parameter variations, multi time-scale nature and plant variables sensitivity with respect to parameters of physically hybrid systems, e.g. electro-mechanical (later applied it to electro-optics, electro-hydraulic, robots, mechatronics, etc.), he formalized a systematic multi-stage design approach making control of LSS possible. He cemented this approach 14 years later with the publication of his seminal book on LSS, known as the "First Textbook" of the field. By then he extended the approach to time-delay, bilinear, stochastic & discrete-time systems. This book was translated into 5 languages and adopted in over 55 nations and is still being used as a text. Since 2006 he has concentrated on the extensions of LSS to System of Systems Engineering (SoSE) in theory and applications to national and homeland security, renewable energy, and robotic swarms in the air (UAVs), sea (submarines) and land rovers. He has 68 books (12 textbooks) in print and another 680 published works. His latest books are on SoSE subject.

Mo Jamshidi has had over 46 years of engineering career spanning from academics in US and overseas, US Government service (28 years, part-time) to work in the industry (USA and France, for a combined period of 4 years) on to entrepreneurship and philanthropic efforts at international level. In technical research and development he has contributed globally to the field of large-scale complex systems and system of systems and their applications and integration with various control and modeling paradigms, including intermixing control theory and intelligent paradigms of artificial intelligence, which is known as autonomous control.

As an engineering academician, he has graduated 45+ Ph.D. and 60 + MS students and has supported and overseen the graduate education of an additional 60 students at the ACE Center through NASA-funded grants and agreements. Among these 120 graduate degrees he has advised or mentored about 54 (45%) are from America's ethnic minorities. In addition, he helped create an undergraduate research program, called PURSUE (Performing University Research for Students in the Undergraduate Education, http://pursue.unm.edu) which has mentored over 850 additional undergraduate students on another NASA supported contract at the University of New Mexico and partnership with high schools, 2- and 4-year colleges and universities. He has over 700 publications, which includes 68 books and edited volumes. His funded research amounts to approximately US $ 20.2 ML in a span of 25 years.

**MAJOR ACTIVITIES FOR US GOVERNMENT AND MILITARY:**

Mo Jamshidi has been active for US Government in many major programs for nearly 27 years:

1. Researcher at US Air Force Research (formerly Weapons or Phillips) Laboratory (1984-90), working on Model-Reference Adaptive Optics for the Strategic Defense Initiative (SDI), Kirtland AFB, NM, USA. This work was later considered for the first generation adaptive optics on the Hubble Telescope. A second tour work was done on diagnostics and prognostics of Airborne Laser (ABL) systems at AFRL (2003-2005).
2. Consultant with Department of Energy Oak Ridge National Laboratory, Oak Ridge, TN. Work was done on modeling, decentralized and adaptive control strategies of next generation nuclear breeder reactors, calibrated at Idaho National Laboratories.
3. Member of NASA JPL Advisory Committee on the Mars Pathfinder Project, 1992-1995. As Advisor to this program, he proposed behavior-based control strategies for the rover on the Mars surface.
4. Founded the Center for Autonomous Control Engineering (ACE) in 1995 with a Cooperative Agreement from NASA Code EU. To date the ACE Center under his leadership and support has graduated 65 minority MS and 18 minority Ph.D. students.
    - In February 1997 he organized the inaugural NASA University Research Centers Technical Conference (URC_TC 97) in which the Honorable Dan Goldin the former NASA Administrator and the Honorable Pete Dominica the then US Senate ranking member of the Senate Budget Committee were the two Honorary Co-Chairs. Over 400 scientists and technologists and managers attended this 3-day meeting. This conference was a cornerstone in making a statement on the quality of USA's Minority Institutions Research in Science and Technology. The NASA

Administrator called the meeting a "*knockout*". The Honorable NASA Administrator took the book and CD ROM Proceedings of this meeting to the floor of the US Senate.

- He was a member of the review committee for NASA's Review Board for Planetary Surface Systems. In this capacity, he helped direct NASA's future R&D efforts on the autonomy in space, through autonomous and semi-autonomous unmanned missions, 1999-2001.

5. Asides from Oak Ridge National Laboratory, he has consulted with DOE Los Alamos National Laboratory and Sandi National Laboratories and DOE Headquarters Office of Renewable and Energy Efficiency for 6 years in the span of 1988 till 2004.
6. From 1997 to 2003 he was a member of the NASA HQ minority businesses utilization (MBRAC) Board, overlooking all the contracting relations between minority and women-owned businesses and Prime contractors NASA-wide. He represented a Hispanic serving institution on the Board. The Board advised NASA on close to $1.4 BL program.
7. During 2001-2003 he led a national team on the applications of robotics for energy efficiency of 10 US "Industries of the Future," for DOE HQ. His report is now on DOE Web site (http://www.eere.energy.gov/ industry/sensors automation/tools.html). Summary of his study will be part of the Call for Proposals: at DOE HQ.

**MAJOR TECHNICAL CONTRIBUTIONS AND PATENTS:**

Mo Jamshidi is known around the world for many scientific and technical contributions, especially for his pioneering works on Large-Scale Systems - Modeling, Computation, Computer-Aided Design, Optimization and Applications. Currently he is expanding his 30-year experience on complex systems in the realm of "*System of Systems*" Engineering with applications in energy systems, national security, healthcare and private enterprises. Among past and present achievements are the following:

1. He helped develop an environmental-economic dispatch of electric power systems methodology for coal-fired power plants in 1976 at IBM T. J. Watson Research Center, Yorktown Heights, NY. His approach is being used by many utilities (including the TVA) to avoid air pollution while meeting the power demand. The approach is a major research trend of EPRI - Electric Power Research Institute.
2. He helped design adaptive control architecture for multi-aperture telescope systems at US Air Force Phillips Laboratory as an IPA (Inter-Personnel Act) Professor. His approach was patented at US Air Force and the approach was used to reconstruct images for the Humble Telescope Project and Strategic Defense Initiative.
3. He helped create a fuzzy logic PI controller for environmentally friendly refrigeration systems and transferred the technology to a small New Mexico Company. The units are now being manufactured and sold nationwide.
4. He has guided and now receiving a US Patent (# 5,590,246) for a fuzzy logic video printer for creating quality prints from video. The technology is now producing two commercial products - SmartPhotoLab© (http://ace.unm.edu/spl) and SmartPhotoCard© for color image printing from the Internet or other sources as well as enhancing the quality of color film printing.

5. He published a book on large-scale systems in 1983 and its revised new edition in 1997, which was translated in 4 languages and used in all continents, and over 55 countries have used it as a textbook in 5 languages.
6. He has graduated 48+ Ph.D. and 52+ MS electrical, mechanical and computer engineering students and has supported and overseen the graduation of an additional 83 Ph.D. and MS students from America's Ethnic Minorities. Over 45% of Mo Jamshidi's MS and Ph.D. students have been members of USA's ethnic minorities. He initiated an innovative student research/teaching teaming concept, called the VI-P® Model (Vertically Integrated Projects, http://ace.unm.edu), which is now a nationally recognized and adopted by numerous institutions in the United States.
7. He chaired the New Mexico Statewide and City-Industry-level committee to establish the Manufacturing Engineering Program and the University of New Mexico with fiber optics links to a sister university - New Mexico State University and the subsequent Master of Manufacturing Engineering Degree, 1985-87. The program has now graduated many MEng. Students and now has a multi-million dollar research and training center, headed by a colleague hired in early 1990's. This program led to a major grant from AT&T, when Jamshidi was designated as the AT&T Professor of Manufacturing Engineering in 1989.
8. In 1984, he spent several months at GM Technology Center, Warren, MI working on modeling and control paradigms of a new car engine. The engine later on was the one chosen for GM's new Saturn Sedans.
9. Currently, he has 3 more pending patents on:
    a. MRI Images clustering and pattern recognition and
    b. A new neuro-fuzzy clustering approach to satellite imagery and applications in remote sensing, medicine, etc.
    c. EduDemia – a social network for academic community
    d. Visual SLAM for mobile robotics

**MEDIA AND PRESS COVERAGES:**

- **WOAI (NBC)** … November, 2006; **KSAT (ABC)** December 2006; **PBS** (all 13 Texas stations and all Texas Senior High Schools coverage), throughout 2007-2008; **FOX** News (San Antonio and Houston) November 2007; **FOX** News January 2008; **KSAT** (ABC) January 2008: **KENS (CBS)** May 2008 (Great Day SA, live show)
- His contributions to America's Ethnic Minority education has been covered in national magazines like *Outlook on Hispanic Education* (2002, 2006) and many newspapers in NM and TX.
- His research work has been on local and regional TVs, and radios including ABC, CBS, FOX, NBC, and PBS in New Mexico.
- He has been covered in many Newspapers and TV and radio programs in foreign countries like New Zealand, Australia, United Arab Emirates, Iran, Bahrain, Saudi Arabia, South Africa, Tunisia, etc.
- Jamshidi was a guest on Peggy Smedley Radio Show (Chicago, IL) on October 21, 2014 (http://ace.wacong.org/media/segment2102114.mp3)
- Mo Jamshidi invited Professor Lotfi A. Zadeh to visit UTSA President Romo during a conference in downtown San Antonio. http://www.utsa.edu/today/2013/12/zadeh.html

- Mo Jamshidi with a partnership on $ 5M grant from USAF http://www.utsa.edu/today/2015/07/vipprogram.html#.VcEOkga5_Uo.email
- Mo Jamshidi's work on Minority education and mentorship being recognized by San Antonio Business Journal http://www.bizjournals.com/sanantonio/news/2015/07/14/utsa-prof-using-dod-grant-to-boost-minority.html
- ACE LAB students created a functional 3-D printed mobile robot. http://www.utsa.edu/today/2015/06/3dprintedrobot.html
- Mo Jamshidi provided training to examiners of US Patent office in system of systems technology. http://www.utsa.edu/today/2011/12/jamshidiresearch.html

**COMMUNITY SERVICE**

Mo Jamshidi has consistently served the community around him both in New Mexico (1979-2006) and Texas (2006-present). In New Mexico he directed a multi-million dollars University Center, called NASA Autonomous Control Engineering (ACE) Center for 8 years focusing on Ethnic minorities from K-12 till Ph.D. He has directly or indirectly been responsible of graduating 90 MS and 25 PhD graduates among US Minorities: Hispanics, African Americans, Native Americans, and Pacific Islanders. Among these students and sample of their current positions are: Scientist a Applied Physical Lab at John Hopkins, Professor at GA Tech, Deputy Scientist at US Air Force Research Laboratory, Arizona State, UTEP, etc.

He has always have opened his research laboratory (UNM and UTSA) to K-12 and students at all levels of colleges and community colleges. At UTSA, his ACE Laboratory, which has so far graduated 13 PhD and 20 MS students, many ethnic minorities. He and his graduate students have visited many San Antonio High Schools like St Mary's Hall, Jefferson High, etc. Jamshidi initiated the construction of a Solar Car by Jefferson HS students and brought it to Texas Sustainable Energy Institute (TSERI) for financial support. That car was featured during the visit of San Antonio Mayor Julian Castro and President Ricardo Romo. Since 2006 hundreds of K-12 students from SA and Austin have UTSA ACE Lab.

Since his arrival year in 2006, Jamshidi and his students have initiated and now well established an annual UTSA Students Conference from 4 colleges (Architecture, Business, Engineering and Scien ce). These conferences have attracted speakers from Industry, SwRI, Austin Solar, Rackspace, etc. and papers presentations from local high schools.

Jamshidi's students have built 7 mobile rovers for UTSA iTEC program and have taken part in robotic camps and K-12 competitions.

On November 22, 2014 Jamshidi and 4 of his graduate students were at San Antonio Children's Museum demonstrating 3 o four quadcopters and worked for 4 hours with SA children and their parents, see https://onedrive.live.com/redir?resid=34C39A547902D0FC!4738&authkey=!AGejONZj6Ah7jt0&ithint=folder%2cjpg.. "Thanks very much to Dr. Mo Jamshidi and the grad students from ACE Laboratory at the UTSA College of Engineering, for demonstrating multi-quadcopters flights and exciting so many children," Chris Navarro, Public Programs and Community Partnership Manger, SA Children's Museum .Prelude to this event UTSA ACE Student Patrick Benavidez was featured

on SA Live SAT show on November 18, 2014. See link https://onedrive.live.com/?cid=34c39a547902d0fc&id=34C39A547902D0FC%214708&ithint=video,mp4&authkey=!ABtsb2TbSZL7Hx4

**EDUCATION AND DEGREES:**

| **Institution Name and Address** | **Date(s)** | **Degree/Program** |
|---|---|---|
| Queens College, Flushing, NY | 2/63-6/63 | English Proficiency |
| Oregon State University, Corvallis, OR | 9/63-6/67 | BS Electrical Engr. |
| University of Illinois, Champaign-Urbana, IL | 9/67-6/69 | MS Electrical Engr. |
| University of Illinois, Champaign-Urbana, IL | 6/69-2/71 | Ph.D. Electrical Engr. |
| IBM Watson Research Center, Yorktown Heights, NY | 9/75-4/77 | Post-Doctoral Fellowship |
| Odlar Yourdu University, Baku, Azerbaijan | 12/1998 | Honorary Doctorate degree |
| University of Waterloo, Waterloo, Canada | 6/2004 | Hon Doc of Engr. degree |
| Technical University of Crete, Greece | 12/2004 | Honorary Doctorate degree |

**WORK EXPERIENCE:**

| **Employer** | **Duration** | **Position** | **Accomplishments** |
|---|---|---|---|
| Cardiff University, Wales, UK | 2009-2010 | Distinguished UK Royal Academy of Engineering Fellow | System of Systems Lecture Series in UK and N. Ireland |
| Universidad de Politecnic de Madrid, Spain | Summer 2008 | Distinguished Visiting Professor of UPM | System of Systems Lectures and Workshop at UPM |
| Univ. of Texas San Antonio, TX | 2006-present | Lutcher Brown Endowed Chair, Electrical & Comp | Research & Education on Cyber-Physical Systems applications to Robotics |

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|---|---|---|---|
| | | Engr. | and Sustainable Energy |
| Univ. New Mexico | 2006-present | Regents Professor Emeritus | Research & Education |
| Univ. New Mexico | 2000-2006 | Regents Professor | Research, Education , Control, Modeling, and Applications of Large-scale Systems |
| Hong Kong Poly. Univ. | 2/2002-3/2002 | Visiting Professor | Research & Education |
| Singapore Nat. Univ. | 3/2002 | Visiting Prof. | Research & Education |
| NATO | Summer 1999 | Distinguished NATO Professor | Lecture Series in Portugal in Machine Intelligence |
| Univ. New Mexico | 1995-2006 | Director ACE Center | Executive & Managerial |
| CNRS, Toulouse (French NSF) | 8/94-7/95 | Directur de Recherch Assoc. du CNRS | Research & Education |
| Siemens Automotive Toulouse, France | 12/94-5/95 | Consultant | Intelligent Auto Mechanisms and Accessories |
| NASA, JPL & HQ | 4/92-12/95 2/98-12/03 | Advisor & Special Gov. Employee | Mars Pathfinder Mission & Min. Business-Prime Relations (MBRAC) |
| USAF Research Laboratory | 4/88-2/90 10/201-Present | Senior Research Advisor | Work on Adaptive optics Diagnostics & Prognostics |
| Oak Ridge National Lab. | 7/88-2/92 | Consulting & Training | Large-Scale Complex Systems |
| Univ. Virginia | 1/88-6/88 | Visiting Professor | Robotics Training |

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|---|---|---|---|
| George Washington Univ. | 8/87-6/88 | Dist. Visiting Professor | Research & Education |
| IBM Inf. Prod. Div Boulder, CO | 5/82-8/83 | Advisory Engr. & Consultant | Copiers Print head Electronics analysis |
| GM Tech Center Warren, MI | 5/84-8/84 | Visiting Scientist | Research & Training |
| IBM Inf. Prod. Div Boulder, CO | 5/82-8/83 | Advisory Engr. & Consultant | Copiers Print head Electronics analysis |
| Univ. New Mexico Albuquerque, NM | 8/79-5/80 | Visiting Professor | Research & Education |
| Shiraz University Shiraz, Iran | 7/77-7/79 | Professor of EE | Research & Education |
| Tech Univ. Denmark Lyngby, DK | 4/77-7/77 | Chaired Professor of Energy Systems | Research & Education |
| IBM Watson Res Ctr. Yorktown Heights, NY | 9/75-4/77 | IBM World Trade Fellow | Environmental & Water Resources Res. |
| University of Stuttgart Stuttgart, Germany | 6/75-9/75 | DAAD Professor of System Engr. | Research & Education |
| Shiraz University Shiraz, Iran | 9/71-6/75 | Assist. & Assoc. Professor of EE | Research & Education |
| University of Illinois Urbana, IL | 1/71-9/71 | Research Associate (Postdoctoral fellow) | Research Administration |

**PROFESSIONAL SOCIETIES, AWARDS, HONORS AND ACADEMIES MEMBERSHIPS:**

- Fellow, IEEE (for contributions to large-scale systems and applications), 1989
- Fellow ASME (for contributions to robotic and manufacturing systems), 1999.
- Fellow, AAAS - American Association for the Advancement of Science (for contributions to complex systems control and optimization), 1998.
- Fellow, TWAS – Developing World Academy of Sciences, 1995.
- Foreign member, Hungarian Academy of Engineering (for contributions to computer-aided control of Large-scale systems design), 1999.
- Fellow, New York Academy of Sciences, 2004

- Honorary Professor, Deakin University, Australia, 2006-2008
- Member, Russian Academy of Nonlinear Sciences, 2000
- Honorary Chaired Professor, Deakin University, Deakin, Vic., Australia, 2001 and 2009-present
- Honorary Doctor of Science, Odlar Yourdu University, Baku, AZR, 1998
- Honorary Doctor of Engineering, University of Waterloo, Canada, 2004
- Honorary Doctor of Engineering, Technical University of Crete, Greece, 2004
- Winner, College of Engineering Outstanding Researcher of the Year, UNM, 1993.
- Member "US National Academy of Science's NRC Comm. on Manufacturing Engr.
- US National Academy of Engineering Task Force on Aeronautical Engineering
- US National Research Council Review Board - DOE and Ford Foundation, 2001-2009
- Member - IFAC Group on Large-Scale Systems
- Member - Numerous IFAC and other Conferences and Symposia Program Committees
- Winner four years of tuition scholarship at Oregon State University -1963-67
- Winner of General Electric College Bowl Scholarship - Oregon State Univ.- 1966-67
- Winner, full fellowship, University of Michigan - 1969 (not used)
- Eta Kappa Nu Electrical Engineering Outstanding Sophomore - 1965
- Phi Kappa Phi Junior Honor Student - 1966
- Member Eta Kappa Nu Electrical Engineering Honor Society - 1966
- Member Tau Beta Pi Engineering Honor Society - 1966
- Member Sigma Tau Engineering Honor Society - 1966
- Member Phi Kappa Phi General Scholarship Honor Society - 1967,
- Member Sigma Xi Scientific Research Society - 1980
- Recipient - IEEE CENTENNIAL Medal 1984
- Recipient - IEEE Control Systems Society Distinguished Member Award - 1985
- IEEE Control Systems Society MILLANEUM award , 2000
- Honorary Chaired Professor, Nanjing Aeronautical University Nanjing, P. R. China
- Honorary Chaired Professor, Xia'n Institute of Technology Xia'n. P. R. China
- Honorary Chaired Professor, East China Industrial Institute, Nanjing, P. R. China
- NASA Public Service Award "In recognition to your contributions to America's Space program through your dedicated service as a member of NASA Minority Business Resources Advisory Committee from 1999 to 2003", 2004.
- IEEE Norbert Weiner Distinguished Research Award, 2005
- IEEE SMC Society Distinguished Contribution Award, 2006
- Awarded as a Distinguished Alumni in Engineering at Oregon State University (http://engr.oregonstate.edu/oregonstater/2006/MohammadJamshidi.html) in 2006.
- The UK Royal Academy of Engineering Distinguished Visiting Research Fellow, UK, Summer 2009
- Member, Fellowship Review Board, US-Vietnam Education Foundation, 2009-present
- Member, Department of Defense Committee on System of Systems Engineering, 2009-present
- UK Royal Academy of engineering Distinguished Fellow, Cardiff University, Cardiff, Wales, UK, 2009-2010
- Best Paper Award ($1^{st}$ Place) IEEE Systems Conference, San Diego, CA, April 2010.
- Best Paper Awards ($1^{st}$ place ) and ($2^{nd}$ Place) in 2 tracks of WAC 2010, Kobe, Japan.
- Vice Chair, IFAC Technical Committee on Large-Scale Systems, 2010-

- Council member of University of Texas System's Chancellor, Austin, TX, USA
- Honorary Professor, University of Birmingham, UK, 2011-present.
- Honorary Professor, Obuda University, Budapest, Hungary, 2012-present.
- Presidential Award for Advancing Globalization of Institution, UTSA, TX, 2012
- Advisor, LABoratory EXcellence (LABEX) national French program on system of systems, 2012-current
- Received Best Contribution Award from IEEE Systems Council, April 2013.
- Received Career Contribution Award from IEEE-USA in New York, May 17, 2014
- Invited Member of International Advisory Board of European Cyber-Physical Systems network SOCIALCPS, March 2014 (http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/calls/h2020-ict-2014-1.html)
- Visiting Professor of System of Systems Engineering, Loughbrough University, UK, 2014-17.
- IEEE-USA Career Award in Systems Engineering, NY, NY , May 2014 http://engineering2.utsa.edu/index.php/uncategorized/jamshidi-recieves-a-2013-ieee-usa-award/
- University of Texas at San Antonio College of Engineering Best Researcher Award, 2014
- Honoree of WAC 2014, Winner WAC Medal of Honor for outstanding contributions to systems engineering and ethnic American education, http://wacong.org

**EDUCATIONAL PROGRAM DEVELOPMENT, TEACHING, AND NEW COURSES:**

- M. Jamshidi has been teaching for over 34 years.
- He helped establish an undergraduate program on Computer Science and Engineering program in 1973 at Shiraz (formerly Pahlavi) University, Shiraz, Iran.
- From 1984 to 1986, he was the chair of the Manufacturing Engineering MS Program at the University of New Mexico, collaborating with New Mexico State University (Las Cruces, NM) when he helped create MS in Manufacturing Engineering. Today, that program has had many graduates and is affiliated to a center called MTTC - Manufacturing Technology Training Center, with multi-million dollars funding, headed by a colleague from Mechanical Engineering Department with 2 accredited degree programs.
- He has taught the following courses during his tenure:
    1. Electric circuits and networks
    2. Numerical Analysis
    3. Computer programming languages
    4. Classical control systems
    5. Digital control systems
    6. Optimization techniques
    7. Optimal control systems
    8. Large-scale systems
    9. Robotics - From Fundamentals to advance topics
    10. Computer-aided Robotics
    11. Computer-aided design of control systems
    12. Fuzzy logic and engineering applications
    13. Intelligent control systems

14. Intelligent systems
15. Artificial Intelligence
16. Linear systems
17. Advanced Fuzzy Logic Control Systems
18. Modern Control Systems
19. Autonomous Control Systems
20. System of Systems Engineering
21. Intelligent System of Systems Engineering
22. Networked Control Systems
23. Sustainable Energy Systems
24. Big Data Analytic and Open Cloud Computing

**STUDENTS EVALUATION** - His students' evaluation mark, when applicable in his career at UNM, has been within the range of 4.9 to 6.0 (out of 6.0). His teaching effectiveness has gained him three honorable mentions from the students associations and printed in the University's Daily Students Newspaper Daily Lobo. Many times, even though he has sufficient funding to release himself from teaching all together, he insists on teaching at least one course per semester to stay in touch with young men and women seeking a worthwhile higher education.

Below, are some students' comments on his teaching capabilities and style:

UNM:

"Very approachable, always make himself available
Willing to answer questions, helpful, knowledgeable
Enthusiastic, biggest motivator I have seen at UNM
One of the best professors I have ever had
Easy to talk to and unassuming person
Friendly, knowledgeable and fair
Graded fair, gave us second chance
Projects and presentations were very rewarding experience
Cared if we understand
Best professor I have had at UNM"

University of Texas, SA:

"Both in the class and out of class, you were always more than willing to help me with any problem I had," … "I do not think I will ever forget the wonderfully challenging course that you gave us think last spring." Thank you for teaching at UTSA and thank you for so kindly helping me on my journey to become a physician."

"Hello Dr. Jamshidi: I just wanted to say thank you for the care and effort you put into your undergrad controls course. The knowledge I gained in control systems I know has benefited me immensely in my current role as a design engineer. Your course was one of the most challenging yet one of the most rewarding I experienced in my undergrad career. Keep up the good work and know that students such as myself will appreciate the forward momentum you provide in obtaining

a technical career. The lab experience you make available is invaluable and I know many students will appreciate the opportunities you make available to them." UTSA 2013.

Professor Jamshidi, I would like to share the following with you. I applied for a Undergraduate REU program in Mechatronics, Robotics, and automated system design at Texas A&M College Station a couple of a weeks ago and I found out last week I got pick out of the 128 people that applied. Only 10 were chosen. Because of your experiments and homework, I actually had something to talk about related to those subjects. They wanted to see someone very interested and taking your robotics course and also Intelligent Controls are very interesting. I would like to thank you for teaching this course because if it wasn't for this course, I don't think I would have got in. Again, thank you again Professor.

**VISITING OVERSEAS STUDENTS**

1. Ben Horan (PhD at Deakin University, Co-advisor, Ph.D. completed in 2008, 6 months visit at UTSA, 2006)

2. Matthew Joordens (PhD at Deakin University, Co-advisor, Ph.D., completed in 2010, 14 months visit at UTSA, 2008-2009)

3. Anjan Kumar Ray (PhD at Indian Institute of Technology, Co-advisor, Ph.D. completed in 2009, 6 months visit at UTSA, 2008)

4. Sami Al-Abrabbuh (BS at King Fahd University of Petroleum and Minerals, Saudi Arabia, July – October 2008)

5. Luis Vega (MS at CIVESTA, Mexico, visit in Spring 2009, Co-advisor, MS to be completed in 2010)

6. Aleksander Jevic (PhD at Universidad Polytechnic de Madrid, Co-advisor, Ph.D. completed in 2011, 3 months visit at UTSA, Fall 2009)

7. Miguel A P Garza, PhD at UANL, Mexico, Co-advisor to be completed in 2011, 3-months visit.

8. CH Huang, PhD at National Central University, Taiwan, Co-advisor, Ph.D., current (April 2011 – February 2012).

9. Lydie Roine, ENSIG, France (Summer 2012)

10. Marjorie Tixier, Lille Polytechnique, France (Summer 2014)

11. Michael Mortimere, Deakin University, Australia, Co-Adviser, Ph.D., In progress 2015

12. Ben Champion, Deakin University, Australia, Co-Adviser, Ph.D., In progress 2015

13. Bertrand Yvernault, Polytechnic du Lille 1, France

M. Jamshidi has developed 10 new courses at UNM (1980-2005) and UTSA (2006-present):

- ***Large-Scale Systems*** (EECE 545, 3 credit hours) first taught as EECE 595 in spring, 1980. A graduate-level course developed to provide students with a background and knowledge of an important class of systems - large-scale systems. New modeling and control philosophies are given in this course. To go with the course, a new text on this area was written which is now the standard textbook on large-scale systems throughout the world. The book has been translated and reproduced in 4 foreign and English languages.
- ***Computer-aided Robotics*** (EECE 444, 3 credit hours) first taught as in fall 1988. A senior-level course developed to provide students with a different background and knowledge of robotics, i.e. a computer-aided approach. Classical subject such as kinematics, dynamics, control, trajectory planning, and sensing are covered and the CAD packages are used extensively.
- ***Fuzzy Logic with Engineering Applications*** (EECE 548, 3 credit hours, cross listed with CE 548) first taught as CE 548 by Professor T. J. Ross. A graduate-level course developed to provide students with a background and knowledge of fuzzy logic and applications in engineering systems.
- ***Intelligent Systems*** (EECE 595-008, 3 credit hours) first taught as EECE 595-005 in spring, 1989. A graduate-level course developed to provide students with a background and fundamental correlation on expert systems, neural networks, and fuzzy logic. Several applications are also covered.
- ***Advanced Fuzzy Logic Control Systems*** (EECE 595, 3 credit hours) a graduate-level course on fuzzy logic clustering, pattern recognition and control.
- ***Autonomous Control Systems*** (EECE 595, 3 credit hours) a graduate level course on the applications of computational intelligence for design fuzzy logic clustering, pattern recognition and control.
- ***System of Systems Engineering*** (EECE 595, 3 credit hours) a graduate level course on the applications of complex systems and their formulations in the framework of system of systems. Applications are covered in national security, military, space, information technology, etc.
- Introduction to System of Systems Engineering (ECE 5243, 3 credit hours) a graduate level course on the architecture, modeling, simulation, control and applications of system of systems engineering. Applications are covered in national security, military, space, information technology, etc.
- ***Network Control Systems*** (EC 5243, 3 credit hours) a graduate elective course on the application of ad hoc wireless network for sensor feedback, actuator signal transmission, stability of NCS as a function of network-induced delays, control of time-delay systems, real implementations.
- ***Renewable Energy Systems*** (EC 5243, 3 credit hours, offered in Fall 2012) an undergraduate /graduate elective course on the principles of renewable energy, marketing, price dynamics, smart grids, wind turbines, solar power systems, interoperability and cyber security issues and cost-benefit aspects of renewable energy projects.
- ***Computational Intelligence for Data Analytics*** **– Big Data** (EC 5243, 3 credit hours, offered in Spring 2013) a graduate elective course on the principles of CI (fuzzy expert systems, neural computing, evolutionary computing, clustering, data mining and pattern

recognition) for information and knowledge extraction of "Big Data". Applications are energy, financial markets, bio-engineering, etc.

**INTERNATIONAL PROFESSIONAL CONFERENCES:**

1. General Chairman, First Iranian Congress in Electrical Engineering, May, 1974, Shiraz, IR
2. Registration Chairman, IEEE Conf. Decision and Control (CDC), 1980.
3. General Founding Co-Chairman, 1st ISR (International Symposium on Robotics) - Nov., 1986, Albuquerque, NM, USA
4. General Chairman, 2nd ISR (International Symposium on Robotics) - Nov., 1988, Albuquerque, NM, USA
5. Chairman, Symposium on Circuits, Systems, and Information, May, 1990, Los Angeles, CA
6. General Chairman, 3rd ISRAM (Int. Symposium on Robotics and Manufacturing) - July, 1990, Vancouver, BC, Canada
7. Publication Chairman, 4th American Nuclear Society Topical Meeting on Robotics and Remote Systems, 1991, Albuquerque, NM, USA
8. General Founding Co-Chairman, 1st Int. Congress on Environmentally Conscious Manufacturing, September, 1991, Santa Fe, NM, USA
9. Chairman, Symposium on Fundamentals of Discrete-Time Systems (A meeting in honor of Professor Eli Jury), June 1992, Chicago, IL.
10. General Chairman, 4th ISRAM - November 1992, Santa Fe, NM, USA
11. General Co-Chairman, 2nd Int. Congress on Environmentally Conscious Design and Manufacturing, 1993, Washington, DC, USA
12. General Chairman, 5th ISRAM and 1st World Automation Congress - WAC, August 1994, Maui, HI, USA
13. General Chairman, 2nd WAC - World Automation Congress, May 1996, Montpellier, France
14. General Chair - Inaugural NASA University Research Centers Technical Conference, URC-TC '97 (Honorary Co-Chairs: The Honorable Dan Goldin, NASA Administrator and the Honorable Senator Peter Dominici, R-New Mexico), Albuquerque, NM, USA, February 14-16, 1997.
15. Program Chairman, 1997 IEEE Robotics and Automation Conf., April 1997, Albuquerque, NM, USA
16. General Chairman, 3rd WAC - World Automation Congress, May, 1998, Anchorage, AK, USA
17. General Chairman, 1st ACE – NASA PURSUE Student Conference - APSC '99, Univ. of New Mexico, April 19-20, 1999, Albuquerque, NM
18. General Chairman, 4th WAC-World Automation Congress, June 11-16, 2000, Maui, HI, USA.
19. General Chairman, 5th WAC-World Automation Congress, June 9-13, 2002, Orlando, FL, USA.
20. General Chairman, 6th WAC-World Automation Congress, June 28-July 1, 2004, Seville, Spain

21. General Chairman, IEEE International Conference on Systems, Man and Cybernetics, Big Island, Hawaii, USA, Oct. 10-12, 2005 (http://ieeesmc2005.unm.edu).
22. General Chairman, 2006 IEEE International Conference on System of Systems Engineering, April 24-26, 2006, Los Angeles, CA, USA.
23. General Chairman, 7th (20th Anniversary) WAC-World Automation Congress, July 25-28, 2006, Budapest, Hungary (wacong.org)
24. General Chairman, 2007 IEEE International Conference on System of Systems Engineering, April 24-26, 2006, San Antonio, TX, USA (*ieeesose2007.org*)
25. General Chairman, 8th WAC-World Automation Congress, September 28 – October 1, 2008, Waikoloa, Hawaii, USA (wacong.org)
26. General Chairman, 2008 IEEE International Conference on System of Systems Engineering, June 1-5, 2008, Monterey, CA, USA (*ieeesose2008.org*)
27. General Chairman, 2009 IEEE International Conference on System of Systems Engineering, June 1-3, 2009, Albuquerque, NM, USA (*ieeesose2009.org*)
28. General Chairman, 9th WAC-World Automation Congress, September 19 – 23, 2010, Kobe, Japan (wacong.org)
29. Founding General Chairman, 2010 IEEE International Conference on System of Systems Engineering, June 22-24, 2010, Loughborough, UK (*ieeesose2010.org*)
30. Founding General Chairman, 2011 IEEE International Conference on System of Systems Engineering, June 27-20, 2011, Albuquerque, NM, USA (*sose2011.org*)
31. General Chairman, 10th WAC-World Automation Congress, June 24-27, 2012, Puerto Vallarta, Mexico (wacong.org) http://www.icsu.org/icsu-latin-america/what-we-do/activities-outreach/intarnational-institutions/world-automation-congress-2012
32. Founding General Chairman, 2012 IEEE International Conference on System of Systems Engineering, July 13-16, 2012, Genoa, Italy (*sose2012.eu*)
33. Founding General Chairman, 2013 IEEE International Conference on System of Systems Engineering, June 2-6, 2013, Maui, HI, USA (*sose2013.org*)
34. General Chairman, 3rd Annual World Conference on Soft Computing, Dec. 16-18 2013, San Antonio, TX
35. Founding General Chairman, 2014 IEEE International Conference on System of Systems Engineering, June 9-13, 2014, Adelaide, Australia, (http://sosengineering.org/2014/)
36. Founding General Chairman, 2015 IEEE International Conference on System of Systems Engineering, May 18-20 2015, San Antonio, TX, USA, (http://sosengineering.org/2015/)
37. Founding General Chairman, 2016 IEEE International Conference on System of Systems Engineering, June 12-16, 2014, Kongsberg, Norway, (http://sosengineering.org/2016/)

**TECHNICAL REVIEWER**

1. National Science Foundation
2. *IFAC J. Automation*
3. *Computers & Electrical*
4. *IEEE Trans. Sys. Man. Cybernetics*
5. *Intelligent and Robotic Systems*
6. *Robotic Systems*
7. *IEEE Trans. Automatic Control*
8. *IEEE Transactions on Fuzzy Systems*

9. *IEEE Trans. Robotics and Automation*
10. Canadian Research Council (NSERC)
11. *ASME J. Dynamic and Control*
12. *IEEE Control Systems Magazine*
13. American Control Conference
14. IEEE Conf. Decision and Control
15. IFAC World Congress
16. *Robotics & CIM Journal*
17. *Robotica Journal*
18. *Journal of Intelligent and Fuzzy Systems*
19. *Journal of Intelligent and Robotic Systems*
20. *Journal of Robotic and Autonomous Systems*
21. *Journal of Intelligent Manufacturing*
22. World Automation Congress
23. *Journal of Intelligent Automation and Soft Computing - AutoSoft*
24. IEEE International Conference on Robotics and Automation
25. IFAC International Conference on Large-Scale Systems
26. IEEE Conf. on Sys. Manufacturing and Cybernetics
27. Fuzzy Days Conference, Dortmund, Germany
28. NASA Surface Systems (Rover) Technology
29. NASA Office of Equal Opportunity (Code EU)
30. State of Texas University System
31. University of Bridgeport (Conn.) Computer Science Doctoral Program
32. North Carolina A&T State University, Chair of PhD Review Committee
33. University of United Arab Emirates, Al-Ain, UAE
34. University of Bahrain, Bahrain
35. Georgia State University, USA
36. University of Sharjah, UAE
37. American University of Beirut, Lebanon
38. DOE Idaho Laboratory
39. DOE HQ Office of Renewable Energy and Energy Efficiency
40. IEEE Transaction on System, Man and Cybernetics, Part A
41. IEEE Systems Journal
42. Indian Institute of Technology – Kanpur, India
43. NSF Center for MEMS and Nanotechnology, State of Arkansas, 2008-2010.
44. Indian Institute of Technology – Rorkee, India
45. National University of Singapore, Singapore.
46. US DOE Smart Grid Program
47. Dubai University Global Drone Competition, 2015

## EDITORIAL ASSIGNMENTS OF PROFESSIONAL JOURNALS

1. Associate Editor - *IFAC J. Automatica*, Pergamon Press, UK, - (1976-1990).
2. Founding Editor, Editor of *IEEE Control Systems Magazine*, NY, NY (1980-1984).
3. Editor-in-Chief, *Computers and Electrical Engineering - An International Journal*, Elsevier Publishing Company, Oxford, UK, (1989-present)

4. Associate Editor, *J. Large-Scale Systems* and later *Information and Decision Technologies*, North Holland, Amsterdam (1978-1989).
5. Associate Editor, *ASME Manufacturing Review*, ASME Press, NY (1990-1993).
6. Editorial Advisory Board, *J. of Intelligent and Robotics Systems,* Kluwer Academic Publishers, Dordrecht, the Netherlands (1987-2007).
7. Editorial Advisory Board, *Int. J. Control and Computers*, ACTA Press, Canada (1985-Present).
8. Editorial Advisory Board, *Encyclopedia of Physical Sciences and Technology*, Academic Press, San Diego, CA (1986 - present).
9. Editorial Advisory Board, *Electrosoft*, Computational Mechanics Publications, Dorchester, UK (1989 - 1992)
10. Associate Editor (1974-79) and Member of the editorial board, *Iranian Journal of Science & Technology* (1984-Present).
11. Series Editor, *ASME Press series on Robotics and Manufacturing - Recent Trends in Research, Education, and Applications*, New York, NY, 1986-1996.
12. Series Editor, *Prentice Hall Series on Environmental and Intelligent Manufacturing Systems*, Upper Saddle River, NJ, 1991-1998.
13. Regional Editor, *Scientia Iranica - International Journal of Sciences and Technology*, Sharif University of Technology Press, IR (1992-present).
14. Co-Editor-in-Chief, *International Journal of Environmentally Conscious Design and Manufacturing*, ECM Press, (1991-1994)
15. Founding Co-Editor-in-Chief, *International Journal of Intelligent and Fuzzy Systems* - Applications in Engineering and Technology, Wiley & Sons, New York, and IOS Press, Amsterdam, the Netherlands, (1992-2006) and since 2006, Co-Editor-in-Chief Emeritus.
16. Series Editor, *Intelligent Automation and Soft Computing*, TSI Press, Albuquerque, NM (1994-Preset).
17. Consulting Editor, *Encyclopedia of Life Support Systems - EOLSS*, UNESCO, Paris, France, 1994-1998.
18. Chairman, International Advisory Board, *Journal of Intelligent Automation and Soft Computing - AutoSoft*, AutoSoft Press, Albuquerque, NM (1994-2002).
19. Advisory Board Member, *International Journal on Soft Computing*, Springer Verlag, Germany, (1996-2002).
20. Editor-in-Chief, *Intelligent Automation and Soft Computing Journal*, (Official Journal of World Automation Congress), TSI Press, San Antonio, TX, USA, (2002-present)
21. Editorial Board Chairman, *Intelligent Computing for Medical Sciences and Image Processing, icmedejournal.org,* (Official Journal of International Forum on Biomedicine and image processing – IFMIP), TSI Press, San Antonio, TX, USA, (2007-present)
22. Editorial Advisory Board , *Journal of Enterprise Transformation*, Taylor & Francis (INCOSE Publisher), USA, (2011-present)
23. Editor-in-Chief, *IEEE Systems Journal*, IEEE, NY, NY, USA, (2006--2012)
24. Honorary editor, International Journal of Complex Systems, TSI Press, USA, (2014-present)

**UTSA ANNUAL STUDENT CONFERENCE** Since 2006, we have launched an annual research conference at UTSA for Engineering, Science and Business students. These conferences have been welcomed by students from engineering and science disciplines. Deans

of both Science and Engineering and Associate Dean of Academic Affairs of Engineering (Dr. M. Shadaram) have been among supporters of this event. SwRI (via Mr. Walt Downing, Executive VP), Rackspace The Open Cloud Company (via Ms. Melisa Gray) are the primary industrial sponsors and supporter of this event from the beginning. Every element of these conferences from general chair, program chair, and finance chair on to award chair are all students from doctoral level to undergraduates.

**MINORITY STUDENTS RECRUITMENT** During the past 4 years or so, several student groups have been set up with undergraduate and graduate minority and majority students at ACE Laboratory. Jamshidi has helped educate 65 MS and 20 Ph.D. students at ACE Center (NM and Texas) since 1984. Jamshidi was featured in a national magazine -- in ***Outlook on Hispanic Education,*** pp. 19-21 under the title of "Mo Jamshidi – Big Thinker with a Big Heart", by Tony and Alison Martinez on January 9, 2006. Jamshidi has used an innovative approach to educating minorities, called VI-P® (vertically-integrated projects, see Figure below), at UTSA from the very beginning.

## COMMITTEE ASSIGNMENTS AT UTSA

Member, DFRAC, ECE Department tenure and promotion committee, 2006-present.
Chair of search committee for 3 junior positions, 2007-2009.
Member, Special Session of DFRAC, Civil Engineering Department tenure and promotion committee, 2008
Member, CFRAC, College of Science promotion and tenure, 2008-2010
Chair of Department Graduate Studies Committee, responsible for all graduate admissions, reports to graduate School and Dean's office and coordinate biannual qualifying exam (2007-2009)
Member, UFRAC (All university promotion and tenure committee), UTSA, 2008-2010
Member, UTSA Scholarship Committee, 2008-2010
Began establishing a Personal UTSA Scholarship Fund for ECE Department, 2006 – present
Member, UTSA University tenure and promotion Committee UFRAC, 2008-2009.
Chair, UTSA University tenure and promotion Committee UFRAC, 2009-2010.
Chair, ECE Chair Search Committee, 2011-2012.
Member, ECE Department Senior Council, 2012-

## INTERNATIONAL TRAVEL AND SPEECHES:

Mo Jamshidi has traveled to nearly 109 countries, many of the engagements as invited keynote speaker at national and international conferences. His books are housed in special sections of libraries in many parts of the world. Latest invitation is European Union's systems and control conference, October 5-7, 2009, Brussels, Belgium.

## INTERNATIONAL AGREEMENTS AND RELATIONS

Our effort has connected UTSA with Institutions in all continents except for Africa.
**IIT – Kanpur** This relationship started with a trip of COE Dean to Indian Institute of Technology, Kanpur (among the top Institutions in India). Control engineering professors at IIT-K came to

attend IEEE SoSE Conference in 2007. The relation strengthened by a visit of a doctoral student from IIT-K to the Laboratory and subsequent co-advisorship of Jamshidi for that particular student. The student graduated from IIT-K in June of 2009. In 2008 a joint proposal between the Laboratory and similar group of Prof. L. Behera led to a grant from INDO-US science and technology Forum for a workshop on SoSE (approved funding at $ 45K). This workshop will be held in Kanpur on October 26-28, 2009 with 8 top US and 15 Indian top scientists attending. Proceeds of this workshop will be published by CRC Taylor & Francis Publishers. The doctoral student has graduate at IIT-K in June 2009.

**Deakin University** – In summer of 2006 Deakin University Vice Chancellor designated Jamshidi as an honorary professor and approved a grant to visit there for 4 weeks. Deakin University approved 2 visits of 6 and 13 months of their doctoral students to the Laboratory. These visits led to 2 graduations of Ph.D. degrees based on their research works at UTSA.

**Cardiff University**, Wales, UK - Shared an honorary position as UK Royal Academy of Engineering Distinguished Fellow for 2009-2010. Cardiff University's Manufacturing Engineering Center has welcomed SoSE technology and plan to send a visiting PhD student to ACE Laboratory at UTSA.

**University of East London –** Upon my IEEE SMC Lecture in London at UEL this summer, their Computing School is planning to prepare an agreement with UTSA to send their students to visit ACE Laboratory.

**University of Ulster**, Derry, N.I., UK - Upon my UK-RAE Lecture at Ulster, in Northern Ireland, this summer, their Intelligent Systems Center is also planning to prepare an agreement with UTSA to send their Ph.D. students to visit ACE Laboratory.

**Universidad de Polytechnic de Madrid** (UTSA-UPM Agreement signed) - Upon my Summer 2008 Lectures at UPM their Image Processing and DSP Laboratory has chosen to join our Consortium and currently we are hosting one of their Ph.D. students at ACE Laboratory.

**CINVESTAV** – Guadalajara, Mexico (UTSA-CINVESTAV – Mexican National Research Center group official agreement signed). This agreement was formalized by UTSA Administration and the first exchange was an MS student visited ACE Laboratory for 7 months. His research was consisted of a quad-rotor helicopter design.

**University of Birmingham –** As an Honorary Professor of this prestigious Institution, major collaborations are being planned between UTSA and possibly other Institutions of the University of Texas System during summer, 2012 in UK.

**Obuda University –** As an Honorary Professor of this Budapest Hungary Institution, September, 2012.

**Energy-Related Activities:**

My **energy research career** goes back 35 years ago as follows:

a) Research work on coal-fired power plants and air pollution effects at IBM Research Center (Yorktown Heights, NY, 1975-77)
b) Work on energy modeling and forecasting at Technical University of Denmark (Lyngby, Denmark, Spring 1977)
c) Research work on solar energy on funded work at UNM (1982-83).
d) Research and consulting with Oak Ridge National Laboratories on nuclear energy and nuclear reactors modeling, instrumentation and control (1989-1992).

Two year prior to the arrival of Dr. Shepherd, I and two graduate students begun forming an energy team and contacted SECO (State Energy Conservation Office, Austin). Soon, we invited Dr. Kelley to join in and later on added Dr. Hari Krishnaswamy, Dr. Shuo Wang, Dr. Ram Krishnan and Dr. C J Qian. Today, the group also has 14 graduate students (8 MS and 6 Ph.D.). From this group of students, I act as advisor or co-advisor to 5 Ph.D.'s and 5 MS students. The energy initiative has produced the following funding opportunities:

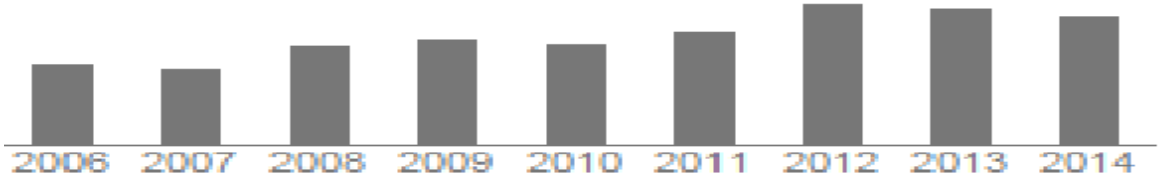
1) SECO1 ((Kelley PI, I and Krishnaswamy Co-PI's), $ 1.39 ML (152 KWh solar energy for UC-III and EB buildings), 2009-2011, supporting 2 PhD and 2 MS students.
2) SECO2 (Kelley PI, I am a senior advisor), $ 0.91 ML (130 KWh solar energy and electric vehicle level 2 charging station for UTSA Downtown Campus (Durango Building), 2010-2011, supporting 1 PhD and 2 MS students.
3) CPS Energy (I serve as PI, Krishnaswamy as Co-PI), $ 400K (leading to a distributed energy grid laboratory, on West Campus, 2nd space allocated to me when I joined UTSA). The laboratory was inaugurated in September 2011, supporting 4 PhD and 4 MS students.
4) Software gift to UTSA Energy Research team ($ 200K) from Power Analytics:

**Paladin® DesignBase™** … Designs, models, simulates, certifies behavior of complex electrical distribution systems and creates a virtual schematic (or "DesignBase") containing expert knowledge of the distribution system. MOU has been signed between Power Analytics and UTSA via TSERI.

**SCIENCE CITATIONS: https://scholar.google.com/citations?user=OVAWAEUAAAAJ**

**Citation indices**

| | All | Since 2010 |
|---|---|---|
| Citations | 6657 | 2716 |
| h-index | 34 | 23 |
| i10-index | 104 | 53 |




**RESEARCH FUNDING:**

Mo Jamshidi has been the principle investigator or co-principle investigator of several research grants, contracts and cooperative agreements in the US. Among his funding agencies one can name NASA, Department of Defense (US Air Force and DARPA), Department of Energy (Sandia National Laboratories, Los Alamos National Laboratory and Oak Ridge National Laboratory), National Science Foundation, IBM Corporation, General Motors Corporation, AT&T Corporation, Siemens Corporation (France) among others. The total research funding he has brought in at the University of New Mexico is approximately US **$23,274,262** ML from 1983-2014. Detailed list is given below.

**FUNDED RESEARCH GRANTS AND COOPERATIVE AGREEMENTS**:

1. Principal investigator for over $21.877 million from various agencies since 1983. A partial list follows:
2. 1983 - $55,000 Funding acquired from: IBM Information Products Division (Modeling and design of print head electronics of laser printers). Student support: 1 Ph.D.
3. 1984 - $99,000 Funding acquired from: GM Research Laboratories (Automobile engine modeling and simulation), US Air Force Weapons Laboratory (Phase-array telescopes), UNM Office of Research (establishment of CAD Laboratory). Student support and release time: 1 MS, 1 Ph.D. 15% release time.
4. 1985 - $93,000 Funding acquired from: US Air Force Weapons Laboratory (Phased-array telescopes), Digital Equipment Corporation (optimal pixel location of gray-level images), and Lockheed Corporation (Identification of STAR-LAB project). Student support and release time: 2 MS, 1 Ph.D., 20% release time.
5. 1986 - $67,000 Funding acquired from: US Air Force Weapons Laboratory (Phased-array telescope), SYSCON Corp. (AI use in character recognition). Students' support and release time: 1 MS 20% release time.
6. 1987 - $54,000 Funding acquired from: US Air Force Weapons Laboratory (An Adaptive Control of Phased-array Telescopes). This research produced one US Air Force patent. Student support and release time: 1/2 time Ph.D. and 20% release time. This work lead to a US Air Force Disclosure.
7. 1988 - $84,000 Funding acquired from: Sandia National Laboratories (Intelligent control of a robotic gripper). US Air Force Weapons Laboratory (Simulation environment for Phased array imaging telescopes). Student support and release time: 3 MS
8. 1989 - $150,000 Funding acquired from: US Air Force Weapons Laboratory (Phased-Array Imaging Telescopes), Sandia National Laboratories (Neural Networks-based control of robot manipulators), and Oak Ridge National Laboratories (Control and simulation

environment for nuclear reactors). Students' support and release time: 3 MS, 3 Ph.D., 20% release time.

9. 1990 - $214,000 Funding acquired from US Air Force Weapons Laboratory (Modeling of Phased-array imaging telescopes), Sandia National Laboratories (Control and teach pendant design of an Adept II robot), Oak Ridge National Laboratory (Simulation and control of nuclear reactors). Canadian Research Council (Robotics and manufacturing education and research evaluations). Student support and release time: 3 MS and 3 Ph.D.
10. 1991 - $268,000 Funding acquired from US Air Force Phillips Laboratory (Image restoration by optimization), Sandia National Laboratories (Adaptive force Control of an Adept II robot. Simulation and control of nuclear reactors, intelligent control of robot manipulators), US Air Force Office of Scientific Research (Research on imaging telescopes), Los Alamos National Laboratory (Fuzzy control of chemical process control systems) Student support and release time: 3 MS and 4 Ph.D., 10% release time.
11. 1992 - $89,000 Funding acquired from NASA Jet Propulsion Laboratory (Primary PI for NASA's initial minority students graduate research program, other co-PIs are T. Ross, Civil Engr., G. Starr, ME, C. Abdallah and D. Peterson, EECE, and R, Colbaugh, ME-NMSU) Student support: 2 MS and 1 Ph.D.
12. 1993 - $13,000 Funding acquired from WERC Waste Education and Research Consortium (Co-PI with R. D. Colbaugh, NMSU) Research on fault-tolerant robotics Student support: 2 Ph.D., partial.
13. 1992 - $50,000 Funding acquired from Polaroid Corporation Research on fuzzy control of a video printer Student support: 1 Ph.D. The work lead to a US Patent in 1996.
14. 1995 - $6,400,000 Funding acquired from NASA to establish Center for (5-year grant) Autonomous Control Engineering - ACE, Student support to graduation to date: 65 MS and 17 Ph.D. Minority Students (see http://ace.unm.edu)
15. 1996- $165,000 Funding acquired from WERC (Co-PI with N. Vadiee). Research (2-year grant) on intelligent control of environment clean-up: 2 MS students
16. 1996- $35,000 Funding acquired from University of New Mexico Development Fund (1-year grant) of a fuzzy logic film printing unit, 1 MS and 1 PhD students
17. 1997- $76,000 Funding acquired from Montana State University (NSF) (3-year grant Applications of a fuzzy logic to power systems transient stability, 1 PhD student
18. 1998- $2,490,000 Funding acquired from NASA for Undergraduate (5-year grant) Research for Space Applications (Co-PI. D. Kauffman). Funds has supported over 250 undergraduate research students (see http://pursue.unm.edu)
19. 1999- $26,000 Funding acquired from University of Arizona (1-year grant) (Prime for DARPA) for Applications of Discrete-Event Systems to Autonomous Robotic Agents
20. 2000- $1,070,000 Funding acquired from NASA Cross Enterprise (NRA) (3-year grant) for Stochastic Learning Automata and Intelligent Approaches to Multi-Physics Modeling
21. 2001 - $6,000,000 Funding acquired from NASA to continue URC-2 Program (5-year grant) Autonomous Control Engineering - ACE, Proposed schedule is for 50 MS and Ph.D. Minority Students (see http://ise.unm.edu).
22. 2002- $ 160,000 Funding acquired from US Air Force Research Laboratory (2 years) Diagnostic and Prognostics of Hardware Systems via Neural network Paradigms
23. 2003- $ 22,000 Funding acquired from Missile Defense Agency (1/2 year) Diagnostic and Prognostics of Laser Borne Systems

24. 2004 - $ 30,000 Funding acquired from DOE Headquarters via Oak Ridge National Laboratory (2 years) Applications of robotic Manipulation in Efficient Energy Consumption of 10 US industries of the Future
25. 2004 - $ 65,000 Funding acquired from US Air Force Research Laboratory (1 year) Diagnostic and Prognostics of Hardware Systems via neural network Paradigms
26. 2006 $ 250,000 Funding from University of Texas System, Austin, Texas to build ACE at UTSA, San Antonio, Texas.
27. 2006-present $ 500,000 Lutcher Brown Endowment Fund, Mobile Robotics and Anti-Terror Technology.(Progress of this work has been featured on NBC and FOX Affiliates in October 2006 in San Antonio and Houston, TX) and was on PBS in 2007 in Austin, Texas.
28. 2008 $ 45,000 INDO-US Workshop on System of Systems Engineering, held in Kanpur, India, October 26-28, 2009.
29. 2009, $30,000 MedPod Corporation Foundation, Donation for Research in Environmental Systems, 2009-2011.
30. 2009, $80,000, WorldCar Foundation, Donation for Research in Green energy Systems, 2009-2011.
31. 2006, $ 150,000, IEEE, Headquarters of the IEEE Systems Journal. 2006-2012.
32. 2010, $ 1,397,000, Texas State Energy Conservation Office, Smart Micro-Grid for Solar Energy of UTSA Campus, (Co-investigators B. Kelley and H. Krishnaswami), 2010-2011.
33. 2010, $ 305,000, CPS Energy Company, San Antonio, Texas, Sustainable Energy Systems Modeling, Control and Optimization, (Co-investigators H. Krishnaswami), 2010-2011.
34. 2011, $ 900,000, Texas State Energy Conservation Office, Smart Micro-Grid for Solar Energy of UTSA Downtown Campus, (PI: B. Kelley), 2010-2011. Texas State Energy Conservation Office, Smart Micro-Grid for Solar Energy of UTSA Campus.
35. 2011-2013, $ 35,000, European Commission, EU, Brussels, Belgium (UTSA is partner with Purdue and Loughbrough University, UK).
36. 2011, $ 200,000 Paladine© Software Environment Gift, Power Analytics Corp., Raleigh, NC.
37. 2012, $ 45,000 STTR Grant from MDA, DOD through 5-D Systems Inc., Austin, TX, Phase 1 (6/1/2012 to 12/31/2012).
38. $ 172,262 CPS Solar Forecasting for City Public Service, 08/28/2013 R Vega (PI) Co-PI M. Jamshidi
39. 2015-2020, $ 1,300,000 Center of Autonomy- Autonomous Vehicles, USAFRL, PI M. Jamshidi.

**Subtotal Funding - $22,999,262**

**EQUIPMENT GRANTS:**

Funding agencies: IBM, AT&T, National Semiconductor, DEC, Polaroid, and UNM Foundation.

1984 - 1993 $210,000 Equipment Grants: Assorted new equipment (DEC terminals, industrial Robot, Adept-II Robot, AT&T workstations, computers, video printer, camera, etc.).

2006 $ 45,000 BEI Technology – Sensor equipment, UTSA.

2006-1012, SwRI, San Antonio, TX, $ 10,000 grant
2010-2012, Rackspace Hosting, San Antonio, TX. $ 10,000 grants

**Total Grants and Equipment $23,274,262 (1983-2015)**

**MS THESES AND PhD DISSERTATIONS SUPERVISED:**

Jamshidi has supervised (or co-supervised) or currently supervising the following 57 MS theses and 48 Ph.D. dissertations since1984.

**Master of Science Theses: (**Ethnic minority or Female Student)**

1. "Hierarchical model and structural properties of large-scale energy systems" - Theiry Portas, 1985.
2. "Sun tracking by peak power positioning for photovoltaic concentrator arrays" - Daniel A. Pritchard, 1986.
3. "Hierarchical control of time-delay discrete-time systems" - Jane M. Brideau**, 1987.
4. "Optimization of large-scale non-linear systems with time-delay" - C.-M. Wang, 1988.
5. "Software engineering design of linear control systems" - Robin S. Morel**, 1989.
6. "On the computational aspects of Kalman filtering" - Tom C. Yenn, 1990.
7. "Software engineering design and analysis of multivariable control systems" - Gerald L. Schotik**, 1990.
8. "The design of device independent and system independent computer application packages" - John T. McGuffin, 1990.
9. "On the computer aided robust decentralized control design of a five-axis robot" - Chung-Shi Tseng, 1991.
10. "Robot-S: An interactive design and simulation language for robot manipulators," Steven R. O'Neill, 1991.
11. "On the connection-based control architecture for robot manipulators" - William Horne, 1992.
12. "Modeling and control of an optical phase array imaging telescope with a wide field of view" - Joseph A. Meinhardt, 1993.
13. "A MATLAB-based ToolBox for robot manipulators" - William Honey, 1992.
14. "Modeling and control of fuzzy control systems with applications to industrial systems" - Denis Barak, 1993.
15. "Adaptive Optics System Control Using Linear Quadratic Methods" - Scott Peterson, 1993.
16. " Nonlinear and fuzzy control of electric power systems" - Elli Kristjansson, 1993
17. "Applications of fuzzy logic to stock markets and financial planning" - Douglas Miller**, 1993
18. "Fuzzy Control of Automotive Engines Idle Speed," A. Martinez**, 1993.
19. "Adaptive fuzzy control of electric power systems" - Huimin Xue, 1994.
20. "A control approach for laser guidance systems" - Steve Baugh** 1995
21. "A software environment for risk assessment " - Jay Bhata (Co-advisor: S. Heger), 1996
22. "Fuzzy control of multi-stage flash desalination systems" - Finnur Olaffsen (LAAS-CNRS, France), 1995

23. "Fuzzy control of complex systems using rule hierarchy and sensory fusion" - Jasper Bruinzeel (LAAS-CNRS, France), 1995.
24. "On the stability of fuzzy logic control systems" – Ali Jadbabaie, 1997. (Currently, Professor, University of Pennsylvania)
25. "Intelligent simulation for cooperative robots" - Olivier Pages (INSA France), 1997.
26. "Fuzzy Logic Image Enhancement of Film Printing" - Aly El-Osery, 1998
27. "SoftLab© - Neural network applications" - Daniel Aznar (INSA, France), 1998
28. "Intelligent control of electric power systems" - Remi Lecointe (INSA, France), 1999
29. "SoftLab© - Neurcomputing and Adaptive Fuzzy systems" - Francois Lhomme (INSA, France), 1999
30. "Intelligent navigation of mobile robots" - Tanya Lippincott**, 1999
31. "Numerical Solutions of Dynamic Mode Inverse Kinematics Problem for Robotic Manipulators," X. Zhu (Mechanical Engineering), 2000
32. "Dynamic Modeling and Optimal Control of Satellite Arrays," A. Rommel (University of Seigen, Germany) 2001
33. "Fuzzy Control of Water Desalination Systems," V. Vakipuram, 2002
34. "Fuzzy Control of Electric Power Systems," Y. Lu, 2002
35. "Stability of Fuzzy Control Systems with Application to Power Systems," S. Murali, 2002
36. "Fuzzy logic applications of mobile rovers," S. Sheikh-Bahaei, 2003
37. A virtual discrete-event simulation and modeling of intelligent agents," Prasanna Sridhar, 2003.
38. "A genetic algorithm optimized fuzzy control of intelligent agents," Shan Xia**, 2004.
39. "Predictive control of intelligent agent systems," Alireza Naddaf, 2004.
40. "Intelligent Navigation of All-Train Rovers," Umesh Dole, 2004.
41. "Simulation of a Spacecraft Electrical Power Distribution System Using the Simulink Power System Block set and Soft Computing Techniques," Scott Beatty, 2005.
42. "Autonomous control and sensor fusions of robotic agents," Vikraman Raghavan, 2007.
43. "Underwater communication among Rovers," Kranthi Manooj, 2009
44. "Design and Simulation of a DC Thruster Motor," Srujana Eega**, 2009
45. "Design and implementation of hybrid fuzzy and adaptive autopilot for UAVS," Jose Gomez**, 2009
46. "Analysis, design and implementation of UAV's and ground stations," Aldo Jaimes**, 2009
47. "Swarm robotics via Network Control," Peymon Gazi, 2010
48. "Design of a Swarm of Autonomous Ground vehicles for Use in Remote Sensing Applications," Patrick Benavidez**, 2010
49. "PV - Wind Energy, Meryem Fennich**, Graduated in May 2013
50. "Design of Hydrogen Gas Micro Turbine", K. Kheradmand, Graduated in December 2014
51. "Cyber-Physical Sustainable Energy and Electric Cars", Gerardo Trevino**, 2012 Graduated
52. "Control of Space Debris, "Joaquin Labrado**, 2013. Graduated in Dec 2013.
53. "Adaptive Rehabilitation of Spinal Cord Injured Persons," Rubin de Albo,** BME Student, 2012 (Co-advisor: Prof. Ong).
54. "Optimal management of Smart Grids," Amir Rajaee, Graduated in Dec. 2012.
55. "Robotic Navigation using SLAM and Image Processing," Mohan Kumar, Graduated December 2014.

56. “Image compression using genetic algorithms,” Maryam Ezell**, Graduated in July 2015.
57. “TSP Problem via Robotics,” Rafik Benmansour, Graduated in May 2014.
58. “Forecasting Sustainable Energy through Big Data Analytic,” Barney Tannahill, Graduated in May 2014.
59. “Energy Forecasting of Turkey up to 2023,” Levent Sari Graduated in May 2014.
60. “Data Analytic Studies for Turkey’s Energy Forecast,” Halid Kaplan, Graduated, May 2014.
61. Chetan Manikanta Puppala , ” SLAM based navigation of quadrotors,:, MS in progress, 2014
62. “Cooperative Monocular Simultaneous Localization and Mapping of the Quadcopters using Sensor Fusion,” Satish Vaishnav, Graduated, July 2015.
63. Eric Weinman, “Machine learning for mobile robotics,” Current, 2015.
64. Jack Richey, “Solar energy maximization for robotic actuation,”, In progress.
65. Ikram Hussain, “ABB Industrial robot kinematics and control,” In progress.
66. Ibrahim Mohammed, “Industrial robotics,” In progress.

**Doctor of Philosophy Dissertations (** Ethnic Minority or Female Student)**

1. "On the extensions of Aoki's aggregation conditions to large-scale stochastic systems" - R. E. Salters**, 1984. (Last known employer: University of Denver, USA, Deceased)
2. "Modeling and multivariable control of multi-link robot manipulators" - Young-Tae Kim (Co-advisor: M. Shahinpoor), 1986. (Last known employer: Donggu University, S. Korea)
3. "On Lyapunov stability of bilinear large-scale systems" F. Asamoah**, 1985. (Last known employer: West Indies University, Caribbean Islands)
4. "On the extensions of the balanced approach of model reduction with applications to large flexible space structures" - John M. Santiago**, 1985. (Last known employer: Colorado College, Colorado Springs, CO, USA)
5. "On decentralized pole placement problem with application to robotics" – M. Tarokh, 1987. (Last known employer: San Diego State University, USA)
6. "On adaptive control of robot manipulators" – B. -J. Oh, 1988. (Last known employer: Hannam University, S. Korea)
7. "Control and stability of two-dimensional systems" - Z. Geng (Co-advisor R. L. Caroll, George Washington University), 1988. (Last known employer: Chinese Academy of Sciences. Beijing)
8. "On the Lyapunov stability of large-scale nonlinear systems with time delay” - S.-R. Lee, 1990. (Last known employer: Korean Army Academy, S. Korea)
9. "On adaptive robust force control of robot manipulators" – J.-N. Lieu, 1991. (Deceased)

10. "On a Programmable fuzzy logic array based on a new soft fuzzy reasoning paradigm" – N. H. Vadiee (Co-advisor: T. J. Ross), (Last known employers: University of New Mexico and Southwest Indian Polytechnic Institute, USA)
11. "Strong stabilization using fixed-order dynamic compensators," – M. Jacobus, 1991. (Last known employer: Sandia National Laboratories, USA)
12. "Advance control architectures for nuclear reactors" – J. B.-Read**, 1992. (Last known employer: Mexican Nuclear Energy Agency, Mexico)
13. "Image restoration using nonlinear optimization techniques on an imaging system." – R. A. Carreras**, 1994. (Last known employer: US Air Force Research Laboratory, USA)
14. "A neural network for Phase Diversity: Simulation and Experiment" – N. Miller**, 1992. (Last known employer: National University of Malaysia, Malaysia)
15. "A neural-network fuzzy logic controller for fault-tolerant robot manipulators" – K. Kumbla, 1997. (Last known employer: Hitachi Corporation, USA)
16. "Fuzzy control and Evolutionary optimization of Complex Systems" – M. Akbarzadeh – Totoonchi, 1998. (Last known employer: Ferdowsi University at Mashhad, Iran)
17. "Monitoring and control of nuclear reactors via a parameter estimation tuning fuzzy controller" – N. Alang-Rashid (Co-advisor S. Heger), 1993. (Last known employer: Malaysian Atomic Energy Agency, Malaysia)
18. "Adaptive hierarchy of distributed fuzzy control: Application to behavior control of Rovers." - Eddie Tunstel** (JPL Minority Fellow), 1996. (Last known employer: Applied Physics Laboratory, John Hopkins University, USA)
19. "An Intelligent Approach to Image Enhancement" – A. Asgharzadeh, 1999. (Last known employer: UAE Telecom, Dubai, UAE)
20. "Intelligent modeling and control of Flexor-Tendon Repairs via Soft Computing" – M. Johnson**, 2002. (Last known employer: Aerospace Corporation, USA)
21. "Hierarchical intelligent control of multi-agent systems" – M. de Oliviera, 2001). (Last known employer: Brazilian National University, Brazil)
22. "Modeling, simulation, design and control of a two-stage desalination pilot plant" – P. Sarkar (Mechanical Engineering, 2002) (Last known employer: Tyco Healthcare Valleylab Corp., USA)
23. Optimal Control for the Autonomous Deployment of a Remote Sensing Spacecraft Array" - Paul De Rego**, 2003. (Last known employer: Honeywell Corporation, USA)
24. "Optimal Power Control of CDMA Based Cellular Systems" – A. El-Osery, 2002. (Last known employer: New Mexico Institute of Technology, USA)
25. "Intelligent control of industrial autonomous systems" - W. G. Parkinson, 2002. (Last known employer: Los Alamos national Laboratory, USA, Retired in 2004.)
26. "Intelligent Navigation of Automatic Guided Vehicles for Flexible Manufacturing." – S. Berman** (Co-advisor Y. Edan, Ben-Gurion University, Beer-Sheva, Israel), 20023. (Last known employer: Ben-Gurion University, Israel)
27. "Antenna Baseline Estimation Coherent Interferometric Synthetic Aperture Radar Image Registration - Ana Martinez**, 2003. (Last known employer: Sandia National Laboratories)
28. "Intelligent enhancement and recognition in magnetic resonance imaging," Tao Song, 2004. (Last known employer: University of California, San Diego, USA)
29. "Fuzzy logic solutions of structural engineering systems," Jonathan Lucero**, 2004 (Co-advisor T. J. Ross, 2004). (Last known employer: Los Alamos National Laboratory, USA)

30. “Intelligent pattern recognition and remote sensing, “Yan Wang**, 2004. (Last known employer: Searching employment).
31. “Cardiac output modeling and simulation using soft computing, “Jingyu Liu**, 2004. (Last known employer: Mine Institute, University of New Mexico, Albuquerque, NM, USA)
32. “Hierarchical Aggregation and Intelligent Monitoring and Control in Fault-Tolerant Wireless Sensor Networks,” Prasanna Sridhar, 2007 (Last known employer: Microsoft Corporation, Seattle, WA, USA)
33. “Haptic control of a rover in a system of robots framework,” Ben Horan, (Co-advisor, S. Nahavandi, Deakin University, Australia), Completed, 2009 (Last known employer: Deakin University, Australia)
34. “Hypercomplex Number Based Automated Robotic Vanilla Pollination System with Vision Sensing,” Ted Shaynefelt, graduated (Co-advisor: SoS Agaian), 2012. Working at University of Hawaii, Hilo.
35. “Design of Virtual environments for Simulation of Wireless Networks,” Aleksander Panchul, (Co-advisor, D. Akopian, University of Texas, San Antonio), Completed, 2010.
36. “Navigation and control of robotic swarms in unstructured environments,” Anjan Kumar Ray, (Co-advisor: Laxmidhar Behera, Indian Institute of Technology, Kanpur, India), Completed, 2009.
37. “Design and implementation of a system of underwater rovers,” Matthew Joordens, (Co-advisor, S. Nahavandi, Deakin University, Australia), Completed, 2009 (Last known employer: Deakin University, Australia)
38. “Image processing Advances for Underwater,” Somayeh Bakhtiari**, graduated, (Co-advisor: SoS Agaian), 2012. Last known Employer: Sony, Inc.
39. “Optimization Model for Low Power Computing in Cloud Data Centers,”,” J. Jeff Prevost, Graduated in October 2013.
40. “Cloud Centers in Smart Grid Data Analysis,” Kranthimanooj Nagothu, graduated 2013 (co-advisor B. Kelley), Last Employer: Theatro Labs**,** Dallas, TX, USA.
41. “Smart Energy Homes,” Dariush Shahgoshtasbi, graduated, 2012, (Last known employer: ServiceNow Company, Seattle, WA, USA)
42. “System identification of Complex Systems,” Elmira M. Bonab**, Graduated in May, 2015 (Co-advisor: Yufang Jin, UTSA).
43. “Implementation of Harmonic Estimators based on Maximally Flat FPGA Target,” Miguel A P Garza**, 2011(Co-advisor: Jose’ A. de la O Serna, UANL, Mexico).
44. “Modeling and Simulation of Brian Tumors,” Amy Daali**, Graduated in May 2015.
45. “Design of a Swarm of Autonomous Ground Vehicles Design and Implementations,” Patrick Benavidez**, Graduated July 2015.
46. “Adaptive Intelligent energy control framework for electrical micro-grids based on energy market and solar energy forecast”, Yashar Manjili, Graduated Dec., 2014.
47. “Deep architecture paradigms for big data analytic in transportation and biological systems,” Arezou Moussavi**, in progress 2015.
48. “Machine vision with Humanoid Robots,” Aldo Jaime**, in Progress 2014.
49. “Complex energy systems modeling and control for Turkey” Yunus Yetis in progress
50. “Cyber-physical control of robotic systems,” Baret Erol, in progress 2014
51. “Big data and Open Stack Cloud Data Centers,” Paul Rad, In Progress 2014.
52. “Solar powered robotics and power electronics,” Abdulrahman Akuzum, 2014
53. “Cloud Architecture, Ali Miraftabzadeh, 2015 In progress

54. Autonomous vehicles modeling and control," Joaquin Labrado**, 2015
55. Remote control of Baxter Robots, Michael Mortimer, Deakin University (Co-Adviser: Ben Horan, Deakin University), In progress, 2015
56. Underwater cooperative rovers, Ben Champion, Deakin University (Co-Adviser: Matthew Joordens, Deakin University), In progress, 2015
57.

**ACE Supported Center Minority Other Ph.D. Fellow Graduates**

**Ayanna Howard** (USC, now Professor at GA Tech)

**Alberto Behar** (USC, now Associate Professor, Arizona State University)

**John Moya** (UNM, now associate Professor, UTEP)

**SPECTRUM OF FOMER STUDENT ADVISEES CARREERS**

Academics 14 (9 are full professors in US and overseas universities, e.g. San Diego State University, University of Denver, University of New Mexico, University of West Indies, New Mexico Institute of Technology, University of Texas at El Paso, National University of Brazil, University of Pennsylvania, Dongku University, Korea, Korean Army Academy, Deakin University, etc.)

Industry 23 (all in US companies such as Boeing, IBM, Lockheed Martin, Aerospace Corporation, Allied Signals, Honeywell, XLINK, Microsoft, United Technologies, Woodward Industrial Controls, etc.)

US Government 12 (in US Government agencies such as NASA, JPL, Sandia National Laboratories, Los Alamos National Laboratory, US Air Force Research Laboratory, NORAD, etc. One advisee is a Full Colonel in USAF)

Overseas 22 (Australia, France, Germany, Brazil, Iran, Korea, Taiwan, Mexico, Norway, Netherlands, Egypt, India, Malaysia. One former advisee was the Deputy Director of Atomic Energy Commission of Malaysia)

Own Business 3 (Own their own companies in the US); one is a multi-million dollar industrialist in Maryland.

**PUBLICATIONS**

(* Denotes graduate students, ** Minority Graduate students)

**Publication activities at a glance:**

Total Number of published works = 730- CD ROMS = 14, Books = 68 (Textbooks = 11), book chapters = 32, Reviewed Conference papers = 368, Reviewed Journal papers =198, Special issues

of journals =33 and Technical reports = 18

Known languages in which Jamshidi's books have been translated: Mandarin (4), Russian (2), and French (1).

The publication is grouped into seven categories of CD ROMS, books and book chapters, technical reports, conference papers, journal papers, and special issues of journals.

**CD ROMS**

1. M. JAMSHIDI, R. Lumia, E. Tunstel, Jr., B. White, J. Malone, and P. Sakimoto, *Proceedings NASA URC Conference on Education, Earth, Environment and Space*, Vol. 1, ACE Center Series, Albuquerque, NM: ACE Center, 1997.
2. M. JAMSHIDI, C. W. de Silva, F. Pierrot, M. Fathi and M. Kamel, *Proceedings World 3rd Automation Congress* - Anchorage, AK, TSI Press, Albuquerque, NM, May 1998
3. M. JAMSHIDI, P. Borne, A. A. Macijewski, M. Fathi, S. Nahavandi, R. Lumia, and T. Furuhashi, *Proceedings 4th World Automation Congress* - Maui, HI, USA, TSI Press, Albuquerque, NM, June, 2000
4. M. JAMSHIDI, Y. Hata, F. Proctor, J. Fedemma, B. Shafai and A. Homaifar, *Proceedings 5th World Automation Congress* – Orlando, FL, USA, TSI Press, Albuquerque, NM, June, 2002
5. M. JAMSHIDI, A. Ollero, L. Foulloy, M. Reuter, A. Kamrani and Y. Hata, *Proceedings 5th World Automation Congress* – Seville, Spain, TSI Press, Albuquerque, NM, USA, June, 2004
6. M. JAMSHIDI, Y. Hata, M. Reuter, D. Cox, S. Nahavandi, J. S. Jamshidi, *Proceedings 6th World Automation Congress* – Budapest, Hungary, TSI Press, San Antonio, TX, USA, July 2006.
7. M. JAMSHIDI, W. Pedrycz, K. W. Bonfig, R. Aliev and R. Lewerenz, *Proceedings 7th International Conference on Application of Fuzzy Systems and Soft Computing* – Siegen, Germany, September 2006.
8. R. A. Aliev, K. W. Bonfig, M. JAMSHIDI, W. Pedrycz and I. B. Turksen (Eds.), *Proceedings 8th International Conference on Applications of Fuzzy Systems and Soft Computing*, b-Quadrat Verlag, ISBN393 3609-26-7, Helsinki, Finland, September 1-3, 2008.
9. M. JAMSHIDI, Y. Hata, G. Parker, M. Reuter, M. Sadat and D. Cox , *Proceedings 7th World Automation Congress* – Waikoloa, HI, TSI Press, San Antonio, TX, USA, September 2008.
10. R. A. Aliev, K. W. Bonfig, M. JAMSHIDI, W. Pedrycz and I. B. Turksen (Eds.), *Proceedings 9th International Conference on Applications of Fuzzy Systems and Soft Computing*, b-Quadrat Verlag, ISBN393 3609-26-7, Prague, Czech Republic, August 26-27, 2010.
11. M. JAMSHIDI, Y. Hata, S. Kobashi, G. Parker, D. Andina, B. Ane, , *Proceedings 8th World Automation Congress* – Kobe, Japan, TSI Press, Albuquerque, NM, USA, September 2010.

12. M. JAMSHIDI, S. Kobashi, G. Muscato, N. Sepehri, D. Andina, and R. Valerdi, , *Proceedings 8th World Automation Congress* – Puerto Vallarta, Mexico, TSI Press, Albuquerque, NM, USA, September 2012.
13. R. A. Aliev, K. W. Bonfig, M. JAMSHIDI, and I. B. Turksen, Proc. 7th International Conference on Soft Computing, Computing with Words and Perceptions in System Analysis, Decision and Control", Izmir, Turkey, September 2-3, 2013.
14. R. A. Aliev, K. W. Bonfig, M. JAMSHIDI, W. Pedrycz and I. B. Turksen (Eds.), *Proceedings 10th International Conference on Applications of Fuzzy Systems and Soft Computing*, b-Quadrat Verlag, Paris, France, August 26-27, 2014.

**BOOKS** (see site http://wacong.org/freepublicationsbymojamshidi/ for free selected books and of the author)

1. J. M. Davis and M. JAMSHIDI, *Solution Manual of Engineering of Dynamic Systems* ( W. R. Perkins and J. B. Cruz, Jr.) John Wiley and Sons, Inc. New York, NY, 1969.
2. M. JAMSHIDI, An*alog Simulation of Dynamic Processes*, University of Illinois, School of Engineering Publications Office, Urbana, IL., 1971.
3. M. JAMSHIDI and M. H. Nehrir, *Proceedings 4th Iranian Conference* (1st Congress) on Electrical Engineering, (eds.) Volume 1, Shiraz, Iran, Shiraz University Press, May, 1974
4. M. JAMSHIDI and M. H. Nehrir, *Proceedings 4th Iranian Conference* (1st Congress) on Electrical Engineering, (eds.) Volume 2, Shiraz, Iran, Shiraz University Press, May, 1974
5. M. JAMSHIDI, *Large-Scale Systems - Modeling and Control*, Elsevier North- Holland, New York, NY, 1983.
6. M. JAMSHIDI, *Large-Scale Systems - Modeling and Control*, Elsevier North- Holland, New York, NY, 1983. Russian Edition, see http://urss.ru/cgi-bin/db.pl?lang=en&blang=en&page= Book&id=107181
7. M. JAMSHIDI, *Large Scale Systems - Modeling and Control*, (Chinese Edition) Science Publishers, Beijing, P. R. China,1986.
8. M. JAMSHIDI and C. J. Herget, *Computer-Aided Control System Engineering*, eds., North-Holland, Amsterdam, 1985.
9. M. JAMSHIDI and C. J. Herget, *Computer-Aided Control Systems Engineering*, Majinostroni Publishing House, (Russian Edition) Moscow, USSR, 1989, this translation sold 20,000 copies in USSR.
10. M. JAMSHIDI and M. Malek-Zavarei, *Linear Control Systems - A Computer- Aided Approach*, Pergamon Press, Oxford, England, 1986.
11. M. JAMSHIDI and M. Malek-Zavarei, *Linear Control Systems - A Computer Aided Approach*, NAI Press, (Chinese Edition) Beijing, P. R. China, 1989.
12. Malek-Zavarei and M. JAMSHIDI, *Time Delay Systems: Analysis, Optimization and Applications*, North-Holland Amsterdam, The Netherlands 1987.
13. M. JAMSHIDI, J. Y. S. Luh, and M. Shahinpoor, *ADVANCES IN ROBOTICS: Modeling, Control and Education*, eds., Elsevier Publishing Co., New York, 1986.
14. M. JAMSHIDI, J. Y. S. Luh, H. Seraji, and G. P. Starr, *ROBOTICS AND MANUFACTURING: Recent Trends in Research, Education, and Applications*, eds., vol. 2, ASME Press, New York, NY, 1988.
15. M. JAMSHIDI, M. Tarokh*, and B. Shafai, *Computer-Aided Analysis and Design of Linear Control Systems*, Prentice Hall, Englewood Cliffs, NJ, 1992.

16. M. JAMSHIDI and M. Saif, *ROBOTICS AND MANUFACTURING: Recent Trends in Research, Education, and Applications*, (eds.), vol. 3, ASME Press, New York, NY, 1990.
17. M. JAMSHIDI, M. Ahmadi, and M. Nahvi, (eds.) *Circuits, Systems, and Information*, TSI Press, Albuquerque, NM, 1991.
18. M. JAMSHIDI and P. J. Eicker, (eds.*) Robotics and Remote Systems*, U.S. Government Printing Office, Washington, DC. Feb. 1991.
19. M. JAMSHIDI, M. Shahinpoor and J. H. Mullins, (eds.) *Environmentally Conscious Manufacturing*, ECM Press, Vol. 1, Albuquerque, NM, 1992.
20. M. JAMSHIDI and C. J. Herget, *Advances in Computer-Aided Control System Analysis and Design*, Eds. North-Holland, Amsterdam, The Netherlands 1992.
21. M. JAMSHIDI and P. J. Eicker, (eds.) *Robotics and Remote Systems in Unstructured Environments*, Englewood Cliffs, NJ: Prentice Hall, 1993.
22. M. JAMSHIDI , N. Vadiee, and T. Ross, (eds.) *Fuzzy Logic and Control: Software and Hardware Applications*, Englewood Cliffs, NJ: Prentice Hall, 1993.
23. M. JAMSHIDI, R. Lumia, J. Mullins, and M. Shahinpoor, *Robotics and Manufacturing: Recent Trends in Research, Education, and Applications*, (eds.), Vol. 4, ASME Press, New York, NY, 1992.
24. M. JAMSHIDI, M. Mansour, B. D. O. Anderson, and N. K. Bose (eds.) *Fundamentals of Discrete-Time Systems*, Albuquerque, NM: TSI Press, 1993.
25. M. JAMSHIDI and H. Parsaei, (eds.) *Design and Implementation of Intelligent Manufacturing Systems*, Englewood Cliffs, NJ: Prentice Hall, 1993.
26. M. Shahinpoor, M. JAMSHIDI, B. Granhoff, and C. Berger, (eds.) *Environmentally Conscious Manufacturing*, ECM Press, Vol. 2, Albuquerque, NM, 1994.
27. F. Aminzadeh and M. JAMSHIDI, (eds.) *Soft Computing*, Englewood Cliffs, NJ: Prentice Hall, 1994.
28. M. JAMSHIDI, C. C. Nguyen, R. Lumia, and J. Yuh (eds.) *Robotics and Manufacturing: Robotics Research and Applications*, Vol. 5, New York: ASME Press, 1994.
29. M. JAMSHIDI, C. C. Nguyen, R. Lumia, and J. Yuh (eds.) *Intelligent Automation and Soft Computing*, Vol. 1, Albuquerque, NM: TSI Press, 1994.
30. M. JAMSHIDI, C. C. Nguyen, R. Lumia, and J. Yuh (eds.) *Intelligent Automation and Soft Computing*, Vol. 2, Albuquerque, NM, 1994.
31. M. JAMSHIDI, *Large-Scale Systems: Modeling, Control, and Fuzzy Logic*, Englewood Cliffs, NJ: Prentice Hall, 1997.
32. M. JAMSHIDI, F. Pin, and P. Dauchez, *Robotics and Manufacturing: Robotics Research and Application*s, Vol. 6, New York: ASME Press, 1996.
33. M. JAMSHIDI, F. Pin, and F. Pierrot, *Robotics and Manufacturing: Robotics Research and Applications*, Vol. 3, Albuquerque, NM: TSI Press, 1996.
34. M. JAMSHIDI, J. Yuh, and F. Pierrot (eds.) *Intelligent Automation and Control*, Vol. 4, Albuquerque, NM: TSI Press, 1996.
35. M. JAMSHIDI, M. Fathi, and P. Dauchez (eds.) *Soft Computing for Industry*, Vol. 5, Albuquerque, NM: TSI Press, 1996.
36. M. JAMSHIDI, N. Vadiee, and T. Ross, (eds.) *Fuzzy Logic and Control: Software and Hardware Applications*, (Persian Edition), by M. Makrechi and A. Katebi, Shiraz, Iran, 1996.

37. M. JAMSHIDI, A. Titli, L. A. Zadeh, and S. Boverie, *Applications of Fuzzy Logic - Towards High Machine Intelligence Quotient (MI?) Systems*, Upper Saddle River, NJ: Prentice Hall, 1997.
38. M. JAMSHIDI, R. Lumia, E. Tunstel, Jr., B. White, J. Malone, and P. Sakimoto, *Proceedings NASA URC Conference on Education, Earth, Environment and Space*, Vol. 1, ACE Center Series, Albuquerque, NM: ACE Center, 1997.
39. M. JAMSHIDI, *Large-Scale Systems: Modeling, Control, and Fuzzy Logic*, (French Edition) Paris, France, 1999.
40. M. JAMSHIDI and C. W. de Silva (eds.) *Intelligent Automation and Control*, Vol. 6, Albuquerque, NM: TSI Press, 1998.
41. M. JAMSHIDI, F. Pierrot and M. Kamel (eds.) *Robotics and Manufacturing*, Vol. 7, Albuquerque, NM: TSI Press, 1998.
42. M. JAMSHIDI, Z. Bien and M. Fathi (eds.) *Soft Computing, Multimedia and Image Processing: Research and Applications*, Vol. 8, Albuquerque, NM: TSI Press, 1998.
43. M. JAMSHIDI, D. Kauffman and N. Vadiee *Proceedings of ACE-PURSUE Student Conference, ACE-Center Series*, Vol.2, Albuquerque, NM, April 19-20, 1999.
44. M. JAMSHIDI, P. Borne and J. S. Jamshidi (eds.) *Intelligent Automation and Control* (Proc. ISIAC 2000), Vol. 9 (Intelligent Automation and Soft Computing Series), Albuquerque, NM: TSI Press, 2000.
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**A CHRONOLOGICAL LIST OF MO JAMSHIDI'S CAREER - 1967-2015**

| Year | Achievement | Comments |
|---|---|---|
| 1962 | High School Diploma, Hadaf No. 1 Campus | Tehran, Iran |
| 1963 | English Language Proficiency, Queens College | New York, NY |
| 1967 | BS EE degree from Oregon State University | Cum Laude, full 4-years scholarship |
| 1969 | MS from the University of Illinois, utilizing multi-time scale nature of hybrid physical nature of many systems, proposed a new approach to nonlinear control of nonlinear systems via parameter sensitivity. | Cum Laude, Research assistantship.<br><br>Examples of such systems were all electro-mechanical systems, from a DC motor to steel mills, to radars, to robots, etc. |
| 1971 | PhD from the University of Illinois, he built upon his MS work to provide a new approach to modeling, model reduction and control and optimization of nonlinear systems with very high dimensions. By 1978, his work reached a degree of maturity, being called "large-scale systems" (LSS) within systems and controls communities. | Cum Laude, Fellowship, research assistantships. |
| 1973 | He extended most of his design techniques to time-delay systems | Results were published in *Int. Journal of Control (*UK) and *Proc IEE* (UK) |
| 1975 | *Proc. IEE Journal* (UK) published his main results based on doctoral work. | Foundation of design approach to large-scale systems |
| 1975-77 | As an IBM World Trade Fellow, at the IBM Corporate Research Center in NY, he extended the LSS theory to environmental systems – | The approach for environmental-economic power dispatch is now a division for research at the Electric |

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| | water resources, air quality and electric power generation | Power Research Institute (EPRI) |
| 1976 | *Information and Control Journal* (USA) published his results based on masters work in nonlinear control | This was one of the earliest works on design of nonlinear systems via parameter embedding approach. |
| 1975-79 | Needing to solve very large-scale optimal control problems, he developed computational algorithms to solve algebraic and differential matrix Riccati equations. | In 1980, he published a very detailed journal paper on solutions of matrix Riccati and Lyapunov equations, referring to over 300 references. |
| 1980 | He established the, as its founding editor-in-chief, *IEEE Control Systems Magazine* now one of the strongest magazines in the IEEE family. | IEEE CSM is now one of the most popular of all IEEE magazines |
| 1980-84 | Member, IEEE Control Systems Society Executive Committee and Board of Governors As founding | Editor-in-Chief, *IEEE Control Systems Magazine*. |
| 1983 | He published his book, *Large-Scale Systems – Modeling and Control* (North Holland, NY), cementing all of his contributions and many others up to that date. The book received an overwhelming success, being reviewed by many and was reportedly adopted in 55 countries. | This book turned out to be the *first text* in the area and was subsequently translated into Chinese, Russian, French, Romanian, among others. |
| 1984-present | He extended the theory and techniques of large-scale systems to other electro-mechanical systems, *robots*, including open-chain robots, mobile robots and Stewart platforms. | He has published over 24 volumes in the general areas of robotics and manufacturing |
| 1983-84 | At IBM Boulder, he developed large-scale systems stability and control approaches for pint head electronics of then IBM Copiers line of products. | His techniques provided stability analysis of such systems |
| 1984 | He received the IEEE Centennial Medal from the Control Systems Society.<br>A summer at GM Technology Center (Warren, MI), he developed large-scale systems approach model and design techniques for a future GM engine, which turned out to be the “Saturn” | engine later on. He co-edited an IEEE Centennial issue of the *IEEE CSM* with late Nat Nichols and George Axelby. |
| 1984-1990 | At US Air Force weapons laboratory, he extended his large-scale systems approaches to | A USAF patent resulted for adaptive optics. Some of his techniques were |

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| | electro-optic systems for phased array telescopes and multi-mirror space systems. | considered in the operational phases of the Hubble telescope. |
| 1985 | He was elected as a “Distinguished member” of the IEEE Control Systems Society. | |
| 1986 | He published two of the first books (one text and one edited) on computer-aided control systems design utilizing algorithms to model, optimize and design large and small-scale systems. | These books were translated into Chinese and Russian. Russian edition sold 20,000 copies in former Soviet Union. |
| 1986-1992 | He served as the editor for ASME Press series on robotic and manufacturing systems | 10 volumes were printed in this series. |
| 1986-present | Honorary Chaired Professor, Nanjing Aeronautical<br>University Nanjing, P. R. China<br>Honorary Chaired Professor, Xia'n Institute of Technology Xia'n. P. R. China | Honorary Chaired Professor, East China Industrial Institute, Nanjing, P. R. China |
| 1987 | He co-authored a book covering all his extensions of large-scale systems to time-delay systems in a research monograph by Elsevier publishers, as one of the most readable books on the subject. | This book was considered the most readable one in the field. |
| 1987-88 | Spent a sabbatical leave at George Washington University as well as consulting work at National Institute of Standards and Technology (NIST). | He was also a visiting professor at the University of Virginia – Charlottesville for Spring 1988. |
| 1988 | He was selected as the AT&T Professor of Manufacturing for his key role in establishing the UNM’s manufacturing engineering’s graduate program. Now a multi-million dollar research and education center. | UNM’s Manufacturing Engineering Program is now a multi-million dollar per year research and educational endeavor. |
| 1988-92 | He was hired as an advisor to Oak Ridge National Laboratories breeder reactor control program. | He applied many large-scale systems approaches in modeling and design for these reactors. |
| 1988-1996 | He served as the editor for Prentice Hall book series on environmental manufacturing systems | 12 volumes were printed in this series. |
| 1989 | He was elected as an IEEE Fellow. | For “contributions to theory and applications of large-scale systems” |

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| 1993 | He won the top engineering researcher award of the University of New Mexico. | |
| 1993-1997 | He was one of the 10 US professors acting as advisors to the NASA JPL's Pathfinder Mars mission. | Mission landed on Mars on July 4th, 1997. |
| 1994 | He established the World Automation Congress (WAC), now as a premier technical meeting held every 2 years around the world, covering robotics, manufacturing, controls, automation, artificial intelligence, multi-media, image processing, biomedical engineering and financial engineering. | As WAC's official journal, *International Journal on Intelligent Automation and Soft Computing (AutoSoft)* was established in 1994 as well. WAC has a tradition of helping 3rd world scientists attend at very minimal fees. |
| 1994-95 | Spent a sabbatical leave as a distinguished professor of French NSF (CNRS) at LAAS Center in Toulouse, France working on autonomous control of mobile robots and applications of AI to large-scale systems. | control of mobile robots and Second edition of Large-Scale Systems was finished and published by Prentice-Hall, Inc., in 1997 |
| 1995 | He led a team of researchers as Principle Investigator and received $ 6.4 M contract from NASA HQ to build a Center on Autonomous Control Engineering (ACE). | ACE is now a well-known center around the world. All total, ACE has received $14 M worth of funding since its inception. |
| 1995 | He was inducted into TWAS – Third World Academy of Sciences for his contributions to "control and optimization of complex systems…" | As a member of TWAS, he has donated to 3rd world science & engineering libraries with over 1000 volumes of books, journals and CD ROMs. |
| 1995-2004 | ACE has produced over 120MS and PhD degrees from UNM, former partner ACEIT Center in North Carolina, and now at ACE Laboratory at UTSA. | Great many of these graduates are among America's ethnic minorities. ACE graduates are now professors, scientist and industry leaders all around the world. |
| 1996 | He received a US Patent (# 5,590,246) on intelligent enhancement of analog and digital images with commercial applications in photography, manufacturing inspection, internet images, etc.<br><br>The technology has produced two commercial products ---- *SmartPhotoLab*© (http://ace.unm. | For color image printing from the Internet or other sources as well as enhancing the quality of color film printing. |

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| | edu/spl) and *SmartPhotoCard* | |
| 1997 | 2nd edition of his Large-Scale Systems book was published by Prentice Hall. | This volume was translated into French. |
| 1998 | Received one honorary doctorate degrees from Azerbaijan – | Former Soviet Republic |
| 1999 | He was elected as Fellow of the ASME | For the applications of large-scale systems to robotics and manufacturing. |
| 1999 | He was elected a fellow of the AAAS – American Academy for the Advancement of Science | For modeling, optimization and control of large-scale systems |
| 1999 | Awarded NATO Professorship lecturing on intelligent Control in Portugal. | Nominated by researchers in Portuguese Institutions. |
| 2000 | He became the Regents Professor, a title for life, at the University of New Mexico | Millennium award from IEEE CSS Society |
| 2001 | He was elected as a member of the Russian Academy of Nonlinear Systems and was invited to Moscow for the induction ceremony. | |
| 2001 | He was elected to Hungarian Academy of Engineering and was inducted into the Academy by its President Prof. Rubik. | For contributions to "computer-aided large-scale systems control…" |
| 2002 | Elected into IEEE SMC Board of Governors. | From 2003-2005 he served as VP for Conferences in IEEE SMC Society. |
| 2003 | He was the lead author on a book on applications of genetic algorithms to robust control – the first book of its kind. | This book bridged a gap between robust systems and soft computing tools for design. |
| 2003 | He was chosen as an honorary professor of Deakin University, | Australia |
| 2004 | He was elected as a Fellow of the New York Academy of Science for his work on autonomous control and automation. | His 6th fellow grade membership. |
| 2004 | Received an Honorary Degree in Engineering from the University of Waterloo, Canada. | His 2nd honorary doctoral degrees. |

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| 1995-present | He has graduated his 56th Ph.D. and 65th MS electrical and mechanical engineering students of his own. In addition, he has supported and overseen the graduation of an additional 82 Ph.D. and MS students. Over 45% of Mo Jamshidi's MS and Ph.D. students have been members of USA's ethnic minorities. He initiated an innovative student research/teaching teaming concept, called the VI-P® Model (Vertically Integrated Projects. Currently advising 7 PhD students and 2 MS students at the University of Texas, San Antonio. http://ace.unm.edu, which is now a nationally recognized and adopted by numerous institutions in the United States. | The VI-P® approach has been adopted by many institutions, including in many multi-institutional NSF Center proposals. |
| 2004 | Received an Honorary Degree in Engineering from the Technical University of Crete, Greece. | His 3rd honorary doctoral degrees. |
| 2004 | He is co-authoring two US Patent disclosures – one on enhanced recognitions of MRI images and one for Remote Sensing of Satellite | Images. These disclosures are subject of commercialization with a venture capital company in Northern California |
| 2005 | Chaired the IEEE SMC Conference in Big Island of Hawaii | Over 700 attended the meeting. |
| 2005 | Received the IEEE SMC Norbert Wiener | Best Researcher Award in Oct. 2005 |
| 2005 | Elected into IEEE SMC Board of Governors. | For period 2005-2008. |
| 2006 | Early retired from UNM and joined the University of Texas, San Antonio | As Lutcher Brown Endowed Chaired professor of ECE |
| 2006 | Began re-establishing the ACE Center | San Antonio, Texas. |
| 2006 | Accepted Adjunct Professor of Deakin University, Australia and visited Australia | on a lecture series in 4 cites for 3 weeks in August. |
| 2006 | He was chosen as the Founding Editor of the *IEEE* | *Systems Journal* of the IEEE Systems Council. |
| 2006 | Chaired the IEEE SMC Conference on System of systems in Los Angeles | Over 85 attended the meeting, 51 were from industry and Government. |
| 2006 | Received the IEEE SMC Outstanding | In Taipei, Taiwan |

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| | Contribution Award | |
| 2006 | Awarded Distinguished Alumni in Engineering at Oregon State University (http://engr.oregonstate.edu/oregonstater/2006/MohammadJamshidi.html ) | Honor received in March 2007. |
| 2007 | Elected to rank of Associate Fellow of AIAA | |
| 2007 | Chaired the IEEE SMC Conference on System of systems in San Antonio | Over 200 attended the meeting, 110 were from industry and Government. |
| 2007 | ACE Laboratory's system of rovers to alarm start of a fire. http://stateoftomorrow.com/series/science-and-tech/high-tech-warriors.htm | Shown on all Public TV stations in Texas |
| 2008 | Chaired the 2008 IEEE SMC Conference on System of systems in Monterey, CA | Over 100 attended the meeting, 85 were from industry and Government. |
| 2008 | Distinguished Professor of Systems Engineering, Universidad Polytechnic de Madrid (UPM), Madrid, Spain | Lectures on system of systems engineering |
| 2008 | He published by Wiley (© 2009) in New York (and Canada) and second one by Taylor & Francis CRC (© 2008) in Boca Raton, FL and London. | These are the first books on System of Systems Engineering in the world. |
| 2008 | Chaired the WAC 2008 Congress in Waikoloa, HI, USA | Over 150 from 30 nations attended. |
| 2009 | Nominated and received a fellowship from UK Royal Academy of Engineering, Lecturing on System of Systems Engineering, throughout UK and Northern Ireland. | Nominated by researchers in British Institutions. |
| 2009 | Review Board Member, US-Vietnam Education Foundation | Annual visit to Vietnam and Lecture |
| 2009 | Member, Department of Defense SoSE National Committee | Help set policy on SoSE for national security |
| 2009 | Chaired the 2009 IEEE Conference on System of Systems in Albuquerque, NM | Over 50 attended the meeting. |

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| 2009-2010 | Distinguished Fellow, UK Royal Academy of Engineering, Cardiff University, Wales, UK | Tutorials on SoSE and Keynote speeches at 5 UK Institutions |
| 2009 | Invited Board Member for Dean Leah Jamieson (Purdue University) | Engineering College's Strategic Plan for SoS Institute |
| 2009-2012 | Honorary Professor, Deakin University, Geelong, VIC, Australia | Joint research work and co-advising doctoral students |
| 2009 | http://www.sebokwiki.org/wiki/System_of_Systems_Engineering_%E2%80%93_New_Challenges_for_the_21st_Century | |
| 2010 | Lead for US Network for Complex Systems Engineering | Conducted Network's first workshop at George Mason University, Fairfax, VA. |
| 2010 | Best Paper Award (1st Place) IEEE Systems Conference, San Diego, CA, April 2010 | Among 140 presented papers |
| 2010 | Co-Led for US Network for US Armed Forces in Complex Systems Engineering, August 16-17, 2010 | Conducted at US Air Force Institute of Technology, Dayton, OH |
| 2010 | Two Best Paper Awards (1st and 2nd Place) World Automation Congress, Kobe, Japan, September, 2010 | Among 140 presented papers |
| 2011 | Lead, Sustainable Energy Research Group | Including 6 Faculty and 15 graduate students |
| 2011 | Lecture series at University of Macao and National University of Aeronautics and Astronautics, Nanjing, China | Sponsored by NUAA |
| 2011 | Co-Lead for Texas Center for Human Rehabilitation, encompassing the entire State of Texas. | Co-chair, Workshop, Aug 19, 2011, Houston |
| 2011 | Lecture on cyber physical (System of) Systems at US Patent Office, Washington, DC on October 31, 2011 reaching over 3000+ patent examiners live and webcast. http://utsa.edu/today/2011/12/jamshidiresearch.h | Sponsored by Iranian-American Society of Patent Lawyers |

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| 2011 | Council member of University of Texas System's Chancellor | On October 31, 2011 |
| 2012 | Honorary Professor, University of Birmingham, UK. | 2011-present |
| 2012 | Presidential Award for Advancing Globalization of Institution, UTSA | President Ricardo Romo |
| 2012 | Honorary Professor, Obuda University, Budapest, Hungary. | 2012-present |
| 2013 | Board member, Japanese Ministry of Education, Sport and Culture of the Osaka University Immunology Frontier Research Center | 2013-present |
| 2013 | Member, UTSA selection committee for the Presidential Globalization Advancement Award | 2013 |
| 2013 | Featured in a Rackspace –the Open Cloud Company Blog<br>See<br>http://www.rackspace.com/blog/how-the-open-cloud-powers-academic-and-scientific-research/ | March 19, 2013<br>UTSA Campus |
| 2013 | Received Best Contribution Award from IEEE Systems Council | April 17, 2013<br>Orlando, FL |
| 2013 | Designated as Rackspace Open Cloud Ambassador | Rackspace Company, San Antonio, TX |
| 2013 | Winner Best Paper Award, IEEE SoSE 2013 | June 3, 2013<br>Maui, HI, USA |
| 2013 | Chair, International Advisory Committee, LABEX Project<br>http://www.utc.fr/labexms2t/workshop_ms2t2013/programme.html | Technical University of Compiegne, France |
| 2013 | Chairman, 3rd Annual World Conference on Soft Computing<br>Wacong.org/2013wcsc and<br>http://utsa.edu/today/2013/12/zadeh.html | San Antonio, TX<br>December 16-18, 2013 |

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| 2013 | Member of Technical Advisory Board, Z-Advanced Computing | Potomac, MD, USA |
| 2013 | Board Member, Academic Networking and Services, LLC | San Antonio, TX, USA |
| 2014 | Member, IEEE Fellow Committee (2014-2015) | New York, NY, USA |
| 2014 | Advisor on World Universities Ranking | Quacquarelli Symonds (QS) Ltd, UK |
| 2014 | Winner IEEE USA Career Award for Professional Contributions to Systems Engineering | New York, NY http://engineering2.utsa.edu/index.php/uncategorized/jamshidi-recieves-a-2013-ieee-usa-award/ |
| 2014 | Invited Member of International Advisory Board of European Cyber-Physical Systems network SOCIALCPS, March 2014 | Spain |
| 2014 | Visiting Professor of System of Systems Engineering | Loughbrough University Loughbrough, England |
| 2014 | College of Engineering Best Researcher Award | University of Texas at San Antonio, April 29, 2014 |
| 2014 | Panel member IEEE SMC Norbert Weiner Panel Session http://smc2014.org/node/108 | San Diego, CA Oct 6, 2014 |
| 2014 | Honoree of WAC 2014<br><br>Winner WAC Medal of Honor for outstanding contributions to systems engineering and ethnic American education | Wacong.org<br>August 5, 2014 |
| 2015 | Advisory Board member<br><br>*International Journal of Rapid Manufacturing.* | URL: http://www.inderscience.com/jhome.php?jcode=ijrapidm#edboard |
| 2015 | Invited as an international judge of "Drones for Good Award" being held in Dubai, UAE by President of the University of Dubai. | URL: http://www.roboticsforgood.ae/ |