

Invited/Plenary/Keynote/Tutorial Presentations

Desineni *Subbaram* Naidu, PhD, Life Fellow IEEE¹

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- **Name:** Desineni “Subbaram” Naidu
- **Citizenship:** United States of America (USA)
- **Current Positions:**
 - Member, IEEE Press Editorial Board
 - Minnesota Power Jack Rowe Endowed Chair- **Emeritus**
 - Professor of Electrical Engineering- **Emeritus**
 - University of Minnesota Duluth (UMD)
 - 1023 University Drive, Duluth, MN 55812, USA
 - Ph: (218) 726-6531; Email: dsnaidu@d.umn.edu
 - URL:<http://www.d.umn.edu/~dsnaidu>
 - Idaho State University - Professor **Emeritus**

Having obtained MTech/MS and PhD degrees in Electrical Engineering with specialization in Control System Engineering, from Indian Institute of Technology (IIT), Kharagpur and moved to the United States of America (USA), and worked at NASA Langley Research Center, USA and US Air Force Research Laboratory, I have done most of the roles at a university (professor, department chair, Associate Dean of the College of Engineering, director/dean of School of Engineering etc). I am now at a stage of my career (see my website below) that I would like give a Plenary /Keynote /Invited presentation at any organization or conference.

A list of recent invited, accepted and presented plenary/keynote talks (**over 70 and counting**) made in over **25 countries** (in alphabetical order): **Argentina** (Buenos Aires - 2010); **Australia - 2008** (Adelaide, Perth); **Belgium 2022** (Brussels); **Brazil** (Rio de Janeiro); **Canada**, (Montreal, 2002; Vanquer - 2023); **China - 2007, 2009, 2011, 2017, 2022** (Beijing, Chengdu- 2016, Guangzhou, Nanjing, Nantong - 2007, Shanghai-2011, Wuxi); **Croatia** (Dubrovnik- 2016); **Cuba** - 2016; **Denmark - 2023** (Copenhagen) ;**Egypt** (Cairo- 2010); **Germany** (Frankfurt-2018); **Greece** (Athens- 2012, Corfu Island, Crete Island, Halkidiki, Rhodes); **Hong Kong - 2022** (Hong Kong - 2014, 2022); **India - 2010 2017, 2019, 2020, 2022, 2024** (Chennai, Bengaluru, Coimbatore, Delhi, Goa, Kharagpur, Hyderabad, Tirupati, Vellore); **Italy** (Turin); **Japan** (Osaka); **Malaysia** (Bangkok);

¹The Institute of Electrical and Electronics Engineers (IEEE), “the world’s largest professional association for Advancing Technology for Humanity”. IEEE was formed by the merger (on 01 January 1963) of The American Institute of Electrical Engineers (AIEE), founded in 1884, a United States based organization of electrical engineers, with the Institute of Radio Engineers (IRE), founded in 1912, a United States based organization of radio/electronic engineers. The IEEE, in the year 2024, celebrated 140 years of serving as “the professional home for the engineering and technology community worldwide”.

Malta (Malta- 2016); **Mexico** Cancun, 2022; **Morocco - 2020** (Marrakesh); **Norway 2004** (Trondheim); **Portugal** (Lisbon- 2015); **Russia - 2012, 2018** (Moscow, Nizhny Novgorod-2012, Novosibirsk- 2018, St. Petersburg -2004); **Singapore - 2020**; **Spain** (Velencia- 2013, 2015); **Switzerland - 2004** (Zurich); **Thailand - 2019** (Bangkok); **Turkey** (Istanbul-2012); **UAE - 2018** (Dubai); **United Kingdom (UK)** (England-Brighton -1991, Ireland - Belfast 2016, Scotland-Edinburgh 2022); **United States (US)** (Several Cities); **Vietnam - 2019** (Hanoi, Tra Vinh city); is given below.

The topics are:

1. **Advanced Control Strategies for Energy Systems based on recent research.**
2. **Singular Perturbations and Time Scales (SPaTS) in Control Theory and Applications - Wind Energy** based on my sustained research for a long time including at Guidance and Control Division, US NASA Langley Research Center; Center of Excellence for Control Theory, US Air Force Research Lab; Center of Excellence for Ships and Ocean Structures (CESOS) Norwegian Univ. of Science and Technology, Trondheim, Norway, etc.
3. **Divide and Defend Control Strategies (DiDeCS) for Cyber, Physical, and Life System for Raising the Resiliency - Electrical Transmission Lines, Infectious Diseases.**
4. **Recent Advances in Closed-Loop Optimal Control of Nonlinear Systems via SDR (State-Dependent Riccati Equation) with Applications to Wind Energy.**
5. **Control Systems for Biomedical/Life Sciences, Engineering and Technology (BMSET) based on the theme of “Convergence and Integration Igniting Innovation between: Physical and Life (& Biomedical) Sciences, Arts (& Humanities), Natural Sciences and Engineering and Technology (PLANET)”**, with specific titles as

- **Recent Research Experiences in Advanced Control Strategies in BMSETb)**
- **Fusion of Hard and Soft (AI) Control Strategies for a Robotic/Prosthetic Hand**
- **Convergence and Integration of Life Sciences and Engineering - Infectious Diseases - HIV/AIDS, and**
- **Convergence and Integration of Applied Mathematics and Engineering (Optimal Control)**

Also note my:

1) 2016 TED Talk (<https://www.youtube.com/watch?v=rXyy5XN2boy0>) on the topic, *3-D Printed Prosthetic Hand for the World*, Minneapolis, Minnesota, USA on 12 Aug. 2016.

2) 2017 research monograph/ book (with Dr. Chen) titled, *Fusion of Hard and Soft Control Strategies for a Robotic Hand* - Wiley - IEEE Press, October 2017, under the IEEE Press Series on Systems Science and Engineering.

<http://www.wiley.com/WileyCDA/WileyTitle/productCd-1119273595,subjectCd-EE30.html>

For my previous plenary/keynote talks, the organizers have waived my registration and supported my hotel stay and/or travel from USA and back.

A short biosketch and a full background is found at my website www.d.umn.edu/~dsnaidu

If you are interested, please let me know, I will be happy to attend the conference and deliver the plenary/keynote/invited talk.

Cheers - Subbaram

● Invited/Plenary/Keynote Talks

1. A three-hour tutorial/workshop titled “Fusion of Hard and Soft (AI) Control Strategies for a Smart Prosthetic/Robotic Hand”, was conducted at the Eighth IFAC International Conference on ADVANCES IN CONTROL AND OPTIMIZATION OF DYNAMICAL SYSTEMS (ACODS 2024), held at Shiv Nadar Institution of Eminence, Greater Noida, Uttar Pradesh 201314, India, during 12-15 MARCH 2024.
2. Invited, accepted and presented a talk titled, “*Fusion of Hard and Soft (AI) Control Strategies For a Smart Prosthetic/Robotic Hand*”, Indian Institute of Technology (IIT), Roorkee, Uttarkhand, INDIA, 08 March 2024.
3. Invited, accepted and presented a talk titled, “*Fusion of Hard and Soft (AI) Control Strategies For a Smart Prosthetic/Robotic Hand*”, Federal-University-of-Rio de-Janeiro (UFRJ), Rio de Janeiro, BRAZIL, November 30, 2023.
4. Invited, accepted and presented a plenary talk titled, “*Fusion of Hard and Soft (AI) Control Strategies For a Smart Prosthetic/Robotic Hand*”, at the 2022 International Conference (virtual) on Electronics, Electrical and Control System (EECS2022), Nanjing, China, 2-4 December, 2022
5. Invited, accepted and presented a plenary talk titled, “*Fusion of Hard and Soft (AI) Control Strategies For a Smart Prosthetic/Robotic Hand*”, at the 2nd Global Summit and Expo on Mechanical and Mechatronics Engineering (GSEMME2022), Edinburgh, Scotland during August 25-27, 2022.
6. Invited, accepted and presented a talk (via online) titled, “*Artificial Intelligence (Machine Learning) for a Robotic/Prosthetic Hand*”, at the International Conference on Data and Intelligent Science and Technology (DIST), the official conference of Institute of Data Science and Artificial Intelligence (IDSAI), Singapore, 31 December 2020.
7. Invited, accepted, and presented a keynote address (via online), titled, “*Advanced Control Strategies for Electrical Energy Systems*”, presented at the 21st International Conference Science, Engineering & Technology 2020 (ICSET-2020), Vellore Institute of Technology (VIT), Vellore, Tamil Nadu, India on 30 Nov. 2020.
8. Invited, accepted and to be presented a keynote talk titled, “Fusion of Hard and Soft (AI) Control Strategies for a Smart Prosthetic/Robotic Hand”, at the International Conference on Robotics and Smart Manufacturing (ICRSMA), Marrakesh, Morocco, 12-13 March 2020.
9. Invited, accepted and presented an invited lecture titled, “*Convergence and Integration of Mathematics and Engineering (Optimal Control Systems)*”, Department of Mathematics, Birla Institute of Technology and Science (BITS), Goa, India, on 07 January 2020.

10. Invited, accepted and presented an invited lecture titled, “*Fusion of Hard and Soft (AI) Control Strategies for a Smart Prosthetic/Robotic Hand*”, at the Division of Electrical Sciences, Indian Institute of Technology, Goa, India, on 06 January 2020.
11. Invited, accepted and presented a keynote talk titled, “Convergence, Integration, and Collaboration Igniting Innovation in Sciences, Engineering, Technology and Beyond: Benchmarks with Robotic Hand and Infectious Diseases”, at the International Conference on Science, Engineering and Technology, Goa, India, 30-31 December 2019.

A certificate was presented for presenting the keynote address to Professor Naidu by the conference organizers. Another certificate was presented to Professor Naidu for chairing the session at the conference.

12. Invited, accepted, and presented a plenary talk titled, “*Divide and Defend Control Strategies for Raising Resiliency in Cyber-Physical Systems - Proof of the Concept: Overhead Power Transmission Lines*”, 51st North American Power Symposium (NAPS), IEEE Power & Energy Society -Technical Co-Sponsor, Wichita State University, Wichita, Kansas, October, 1315, 2019.
13. Invited, accepted and presented a plenary talk titled, “*Fusion of Hard and Soft (AI) Control Strategies for a Robotic/Prosthetic Hand*”, Department of Automatic Control, School of Electrical Engineering, Hanoi University of Science and Technology (HUST), Hanoi, Vietnam, on June 20, 2019.
14. Invited, accepted and presented a seminar titled, “*ABET for Engineering Programs How to Begin with ABET*”, School of Engineering and Technology, Tra Vinh University, Tra Vinh city, Tra Vinh Province, Vietnam, on June 17, 2019.
15. Invited, accepted and presented a keynote talk titled, “*Fusion of Hard and Soft (AI) Control Strategies for a Robotic/Prosthetic Hand*”, School of Engineering and Technology, Tra Vinh University, Tra Vinh city, Tra Vinh Province, Vietnam, on June 17, 2019. A Certificate of Contribution was presented to Professor Naidu by Rector, Tra Vinh University.
16. Invited, accepted and presented a plenary talk titled, “*Fusion of Hard and Soft (AI) Control Strategies for a Robotic/Prosthetic Hand*”, Mechatronics Group, Department of Industrial Systems Engineering, School of Engineering and Technology, Asian Institute of Technology (AIT), Bangkok, Thailand, June 13, 2019.
17. Invited, accepted and presented a plenary talk titled, “*Convergence and Integration of Life Sciences and Engineering - Infectious Diseases*”, at the *2nd Global Congress on Bacteriology and Infectious Diseases: Theme-Developing novel technologies & treatment to cure Infectious Diseases*, June 12-13, 2019 in Bangkok, Thailand, 12 June 2019. A *Certificate of Recognition* was presented to Professor Naidu for his *phenomenal and worthy keynote presentation*.
18. Invited, accepted and presented a plenary talk titled, “*Fusion of Hard and Soft (AI) Control Strategies for a Robotic/Prosthetic Hand*”, 19th Annual IEEE International Conference on Electro Information Technology (EIT), Brookings, South

- Dakota, USA, May 20-22, 2019. A *plaque* was awarded to Professor Naidu “*in appreciation of your significant contributions as a Keynote Speaker*”.
19. Invited, accepted and presented a talk titled, “*Advanced Control Strategies For Smart Grid and Clean Energy*”, Electrical and Computer Engineering Department, Khalifa University, Abu Dhabi, United Arab Emirates (UAE), 15 November 2018.
 20. Invited, accepted and presented a key note talk titled, “*Research Experiences in Biomedical Sciences and Engineering: Prosthetic/Robotic Hand*”, at the 2nd World Biotechnology & Health Care Congress, on the theme “To Share Innovative Challenges, Emerging Issues and practical Experiences in Biotechnology and Healthcare, held in Dubai, United Arab Emirates (UAE), 12-Nov-2018 to 14-Nov-2018. A *Certificate of Appreciation* was awarded to Professor Naidu for his *phenomenal and worthy keynote presentation*.
 21. Invited, accepted and presented a plenary talk titled, “*Research Experiences in Biomedical Sciences and Engineering: Prosthetic/Robotic Hand*”, on 25 October 2018, at the 2nd World Congress on Biotechnology, held in Frankfurt, Germany, October 25-26, 2018. A *Certificate of Recognition* was awarded to Professor Naidu for *phenomenal and worthy keynote presentation*.
 22. Invited, accepted and presented a plenary talk titled, “*Fusion of Hard and Soft Control Strategies for a Smart Prosthetic/Robotic Hand*”, on 23 October 2018, at the International Conference on Robotics and Automation, held in Frankfurt, Germany, October 22-23, 2018. A *Certificate of Recognition* was awarded to Professor Naidu for *phenomenal and worthy keynote presentation*.
 23. Invited, accepted and presented a plenary talk titled, “*Fusion of Hard and Soft Control Strategies for a Smart Prosthetic/Robotic Hand*”, on 23 October 2018, at the International Conference on Robotics and Automation, Mercure Hotel Kaiserhof, Frankfurt City Center, October 22-23, 2018. A *Certificate of Recognition* was awarded to Professor Naidu for *phenomenal and worthy keynote presentation*.
 24. Invited, accepted and presented a plenary talk titled, “*Research Experiences in Biomedical Sciences and Engineering: Prosthetic/Robotic Hand*”, on 22 October 2018, at the International Conference on Biomedicine & Pharmacotherapy, Frankfurt, Germany, October 22-23, 2018. A *Certificate of Recognition* was awarded to Professor Naidu for *phenomenal and worthy keynote presentation*.
 25. Invited, accepted and presented a seminar/lecture titled, “*Nonlinear, Closed-Loop, Optimal Regulation and Tracking via SDREs*”, Federal Research Center (FRC), Computer Science and Control (CSC), Institute of Control Sciences (ICS), Russian Academy of Sciences (RAS), Moscow, Russia, 3:00 PM, 05 July 2018. SDREs: State-Dependent Riccati Equations.
 26. Invited, accepted and presented seminar/lecture titled, “*Fusion of Hard and Soft Control Strategies for Prosthetic/Robotic Hand*”, V. A. Trapeznikov Institute of Control Sciences (ICS), Russian Academy of Sciences (RAS), Moscow, Russia, 11:30 AM, 05 July 2018.

“*The Russian Academy of Sciences (RAS) consists of the national academy of Russia; a network of scientific research institutes from across the Russian Federation; and additional scientific and social units ... located at Leninsky Ave, 14,*

Moskva, Russia, 119991, Founder: Peter the Great, Founded: February 8, 1724, Saint Petersburg, Russia”.

“(V.A. Trapeznikov) Institute of Control Sciences (ICS), Russian Academy of Sciences. V.A. Trapeznikov Institute of Control Sciences, Russian Academy of Sciences, was founded in 1939. The Institute was named after Academician Vadim Alexandrovich Trapeznikov (1905 - 1994) and Institute Director in 1951 - 1987, in 1998”.

The accommodation at discounted rates was provided for 3 nights (of July 4,5,6) at the Foreign Guest Rooms of the Steklov Mathematical Institute (SMI), Division of Mathematical Sciences (DMS), Russian Academy of Sciences (RAS), Moscow, Russia.

27. Invited, accepted and presented an invited lecture titled, “*Fusion of Hard and Soft Control Strategies for Prosthetic/Robotic Hand*”, the 19th International Conference of Young Specialists on Micro/Nanotechnologies and Electron Devices, EDM 2018, (June 29 - July 3, 2018) in **Erlagol**, Altai Province, Siberia, Russia, Organized by Novosibirsk (*New Siberian*) State Technical University (NSTU) and IEEE Russia Siberia Section, Novosibirsk (New Siberia), Russia, 30 June 2018.

28. Invited, accepted and presented a lecture titled, “*Fusion of Hard and Soft Control Strategies for a Smart Prosthetic/Robotic Hand (Part-2)*”, Novosibirsk (*New Siberian*) State Technical University (NSTU), Novosibirsk (New Siberia), Russia, 27 June 2018.

“Siberian Branch of the Russian Academy of Sciences is the largest integrator and the main expert of research and development, scientific educational, experimental design and industrial organizations in the Eastern Russia”.

29. Invited, accepted and presented a lecture titled, “*Advanced Control Strategies For Smart Grid and Clean Energy*”, Conference on Electric Power Supply Systems, Novosibirsk (*New Siberian*) State Technical University, Novosibirsk (New Siberia), Russia, 26 June 2018.

30. Invited, accepted and presented a lecture titled, “*Lecture for students Fusion of Hard and Soft Control Strategies for a Smart Prosthetic/Robotic Hand (Part-1)*”, Novosibirsk (*New Siberian*) State Technical University (NSTU), Novosibirsk (New Siberia), Russia, 25 June 2018.

The expenses for boarding and lodging during the period (13 days) of stay at NSTU during June 22, 2018 to July 3, 2018 were born by the Department of Automatic Control Systems of the Faculty of Automation and Computer Engineering, and the Department of Electrotechnology of the Faculty of Mechatronics and Automation, of the host institution NSTU.

Novosibirsk (*New Siberian*) State Technical University (NSTU), Novosibirsk, Russia (<http://en.nstu.ru/>) “*is one of the leading universities in Russia and is one of the largest universities in Siberia. The university offers about 120 programs of study in technical, economic, and humanitarian fields at the Bachelors, Masters, Ph. D., and post-doctoral levels. Approximately 3000 faculty members and employees work at the university. Total number of enrolled students exceeds 25 thousand*”.

31. Invited Panelist, Plenary Panel Session on “*Trends in Research on Multi-agent Systems*”, 4:00-6:00pm, June 14, 2018, the 2018 IEEE 14th International Conference on Control and Automation (ICCA), June 12-15, 2018. Anchorage, Alaska, USA.
32. Invited, accepted and presented a keynote presentation on “Fusion of Hard and Soft Control Strategies in Biomedical Engineering: Robotic /Prosthetic hand”, at the 5th International Summit on Medical Biology & Bioengineering, held during September 27-28, 2017 in Chicago, IL, USA, on 28 September 2017. A Certificate of Recognition was presented after the presentation for “his phenomenal and worthy keynote presentation”.
33. Invited, accepted and presented a lecture, “Biomedical Engineering: 3-D Printed Prosthetic Hand TED Talk (12 Aug. 2016) Reenacted”, Indian Institute of Technology (IIT), Madras, Chennai, India, on 28 April 2017.
34. Invited, accepted and presented a lecture, “Closed-loop, Optimal Control of Non-linear Systems via State-Dependent Riccati Equation (SDRE)”, Indian Institute of Science (IISc), Bengaluru, India, on 18 April 2017.
35. Invited, accepted and presented a lecture, “State-Dependent Riccati Equations (SDREs) for closed-loop optimal control of nonlinear systems under stochastic environment”, Indian Institute of Science (IISc), Bengaluru-560 012, India, on 24 April 2017.
36. Invited, accepted and presented a keynote address, “Startup Strategies in USA and India”, International Conference on Trends in Innovation and Entrepreneurship, Sri Padmavathi Mahila (Women) Visvavidyalayam (University), Tirupati, Andhra Pradesh, India, March 29-31, 2017.
The mission of the Women’s University is “Emancipation of Women through acquisition of knowledge and Empowerment through skill up-gradation, involvement and participation in various occupations in the society, towards the end of establishing a progressive egalitarian society”.
37. Invited, accepted and presented a lecture, “Singular Perturbations and Time Scales (SPaTS) in Control Theory and Applications: Part 3 of 3”, Indian Institute of Science (IISc), Bengaluru-560 012, India, on 21 March 2017.
38. Invited, accepted and presented a lecture, “Singular Perturbations and Time Scales (SPaTS) in Control Theory and Applications: Part 2 of 3”, Indian Institute of Science (IISc), Bengaluru-560 012, India, on 14 March 2017.
39. Invited, accepted and presented a lecture, “Time Scales in Control of Wind Energy Conversion Systems”, Department of Electrical Engineering, Indian Institute of Science (IISc), Bengaluru-560 012, India, on 23 March 2017.
40. Invited, accepted and presented a lecture, “Time Scales in Control Theory and Applications”, Vellore Institute of Technology (VIT), Vellore, Tamil Nadu, INDIA, on 11 March 2017.
41. Invited, accepted and presented a lecture, “Biomedical and Prosthetic Hand Technology for the World”, Vellore Institute of Technology (VIT), Vellore, Tamil Nadu, INDIA, on 10 March 2017.

VIT, established in 1984, with over 25,000 students in 53 undergraduate and graduate programs, is ranked as # 1, "among all Private Engineering Institutions of India", in 2016.

42. Invited, accepted and presented a lecture, "Biomedical and Prosthetic Hand Technology for the World", Amrita University, Ettimadai, Amritanagar, Coimbatore, Tamil Nadu, India, on 03 March 2017.

43. Invited, accepted and presented a lecture, "Biomedical and Prosthetic Hand Technology for the World", Amrita University, Ettimadai, Amritanagar, Coimbatore, Tamil Nadu, India, on 03 March 2017.

Amrita University was started in 2003 by a renowned humanitarian leader and spiritual teacher, Sri Mata Amritanandamayi.

44. Invited, accepted and presented a lecture, "Biomedical and Prosthetic Hand Technology for the World", PSG Institute of Technology, Coimbatore, Tamil Nadu, India, on 02 March 2017.

PSG College of Technology "is one of the foremost institutions founded by the PSG & Sons' Charities Trust (1926). The College was established in the year 1951 and the Founders wisely decided to locate it in the same campus as the PSG Industrial Institute for effective industry-institute interaction".

45. Invited, accepted and presented a lecture, "Singular Perturbations and Time Scales (SPaTS) in Control Theory and Applications: Part 1 of 3", Indian Institute of Science (IISc), Bengaluru-560 012, India, on 28 February 2017.

46. Invited, accepted and presented a lecture, "Biomedical and Prosthetic Hand Technology Part 2 of 2", Indian Institute of Science (IISc), Bengaluru-560 012, India, on 21 February 2017.

47. Invited, accepted and presented a lecture, "Control Systems: Industrial Applications", Acharya Institute of Technology (AIT), Acharya Dr. Sarvepalli Radhakrishnan Road, Bangalore-560 107, India, on 16 February 2017. The Sanskrit word "Acharya" means "TEACHER", epitomizes the quintessential values of Acharya Institution, where traditional respect for teachers is of paramount importance.

48. Invited, accepted and presented a lecture, "Biomedical and Prosthetic Hand Technology Part 1 of 2", Indian Institute of Science (IISc), Bengaluru, India, on 14 February 2017.

49. Invited, accepted and presented a lecture, "Biomedical and Prosthetic Hand Technology for the World", on the occasion of the Research Scholars Day, Department of Electrical Engineering, Indian Institute of Technology (IIT), Kharagpur, India, on 11 February 2017. I was an alumnus of IIT-Kharagpur having got my MTech and PhD degrees.

IIT-Kharagpur was the first IIT, started in May 1950 (soon after India got independence in 1947) in Hijli, Kharagpur, in the eastern part of India. "IIT Kharagpur started its journey in the old Hijli Detention Camp where some of India's great freedom fighters toiled and sacrificed their lives for the independence of the country. The history of IIT Kharagpur is thus intimately linked with the history of the Hijli Detention Camp. This is possibly one of the very few Institutions all over the world which started life in a prison house".

50. Invited, accepted and presented a lecture, “My Research Experiences from IIT-KGP(INDIA) to Uni.Minnesota (USA)”, to faculty of Indian Institute of Technology, Tirupati (IIT-P), India, on 08 February 2017.
51. Invited, accepted and presented a lecture, “My Educational Experiences from SVUCE (INDIA) to Uni.Minnesota (USA)”, Sri Venkateswara University College of Engineering (SVUCE), Tirupati, India, on 07 February 2017. I am an alumnus of SVUCE having got my BE in Electrical Engineering in December 1963 (first batch of graduates).

“A university stands for humanism, for tolerance, for reason, for the adventure of ideas and for the search for truth. It stands for the onward march of the human race towards even higher objectives. If the universities discharge their duties adequately then it is well with the nation and the people.” Jawaharlal Nehru (1889 - 1964), the first prime minister of India (from 1947 - until his death in 1964), while laying the foundation stone for the college Main Building on 13th October, 1959.
52. Invited, accepted and delivered a TED Talk entitled, *3-D Printed Prosthetic Hand for the World* for TEDxMinneapolis, Minneapolis, MN (www.TEDxMinneapolis.com) at Tedd Mann Concert Hall, a world-class concert auditorium, (<http://campusmaps.umn.edu/ted-mann-concert-hall>) located in the School of Music, on West Campus of University of Minnesota, Twin Cities (address: 2128 4th Street S Minneapolis, MN, 55455) during the annual IN SIGHT event scheduled from 4:00 PM to 11:00 PM on Friday, August 12, 2016. “TED is a nonprofit devoted to spreading ideas, usually in the form of short, powerful talks (18 minutes or less). TED began in 1984 as a conference where Technology, Entertainment and Design (TED) converged, and today covers almost all topics from science to business to global issues”.

This TEDx Video is available for public at <https://www.youtube.com/watch?v=rXyy5XN2oY0>
53. Invited, accepted and presented a lecture, “Recent Results on Nonlinear, Optimal Regulation and Tracking: Theory and Applications”, 1st International Conference on: Applied Physics, System Science and Computers (APSAC '16), Dubrovnik, Croatia, 28-30, September, 2016.
54. Invited, accepted and presented a keynote lecture titled, “My Journey of Educational Experiences from IIT to UMD” (IIT: Indian Institute of Technology - KGP and UMD: University of Minnesota Duluth), Department of Electrical Engineering, Government College of Engineering, Aurangabad, Maharashtra, India, 15 January 2015.
55. Invited, accepted and presented a keynote lecture titled, “My Journey of Educational Experiences in Control Systems Engineering from IIT to UMD” (IIT: Indian Institute of Technology - KGP and UMD: University of Minnesota Duluth), 2014 International Conference on Power, Control and Embedded Systems (ICPCES), Department of Electrical Engineering, Motilal Nehru National Institute of Technology, Allahabad, Uttar Pradesh, India, 26-28 December 2014.
56. Invited, accepted and presented a *Webinar* (through Go-To-Meeting) on “Our Institution and Twinning Programs, for Indo US Collaboration for Engineering

- Education (IUCEE) (www.iucee.org) on 17 December, 2013.
57. Invited, accepted and presented a *Webinar* (through Go-To-Meeting) on “Outcomes Based Engineering Education, for Indo US Collaboration for Engineering Education (IUCEE) (www.iucee.org) on 17 November, 2013.
 58. Invited Plenary Lecture titled, “Research Experiences in Control Systems Engineering from IIT 1965) to ISU (2012)”, WSEAS² Proceedings of the WSEAS-NAUN³ 4th International Conference on CIRCUITS, SYSTEMS, CONTROL, SIGNALS (CSCS '13), Valencia, Spain, pp. 11, August 6-8, 2013
 59. Invited, accepted and presented a talk titled, “Smart Prosthetic Hand Technology at Idaho State University”, at Control Engineering Department, Istanbul Technical University (ITU), Istanbul, Turkey, August 24, 2012 (ITU one of the top technical universities in the world, was established in 1773 (compared to MIT established in 1861 in USA).
 60. Invited, accepted and presented a talk titled, “Singular Perturbations and Time Scales (SPaTS) in Control Theory and Applications”, at Department of Mathematics, Faculty of Physics, M.V. Lomonosov Moscow State University, Moscow, Russia, June 24, 2012.
 61. Invited, accepted and presented *Plenary Lecture 2* titled, “Singular Perturbations and Time Scales (SPaTS) in Control Theory and Applications”, 12th WSEAS⁴ International Conference on Advances in Systems Theory, Signal Processing and Computational Science, pp. 124-129, Istanbul, Turkey, August 21-23, 2012.
 62. Invited, accepted and presented *plenary lecture 1* titled, “Smart Prosthetic Hand Technology at Idaho State University”, at the 6th International Conference on Circuits, Systems and Signals (CSS'11), Vouliagmeni Beach, Athens, Greece, March 7-9, 2012
 63. Invited, accepted and presented a talk titled, “Smart Prosthetic Hand Technology at Idaho State University”, at the Institute of Systems Science, Academy of Mathematics and Systems Science, Chinese Academy of Sciences (CAS), Beijing, China, December 26, 2011.
 64. Invited, accepted and presented a talk titled, “Singular Perturbations and Time Scales (SPaTS) in Control Theory and Applications”, at Department of Mathematics, Shanghai Jiao-Tong University (SJTU), Shanghai, China, December 22, 2011.
 65. Invited, accepted and presented a talk titled, “Smart Prosthetic Hand Technology at Idaho State University”, at Nantong University, Nantong, China, December 17, 2011.
 66. Invited, accepted and presented a talk titled “My Research Experiences from IIT, ... ,ISU: An Overview”, at the International Conference on Aerospace, Electronics, Communications and Instrumentation (ASECI) organized by the Dept. of Electronics & Instrumentation Engineering, V.R.Siddhartha Engineering College,

²World Scientific and Engineering Academy and Society

³North Atlantic University Union

⁴World Scientific and Engineering Academy and Society

- and P.V.P.Siddhartha Institute of Technology, Vijayawada, Andhra Pradesh, India, January 6-7, 2010.
67. Invited, accepted and presented a talk titled, "Guidance and Control Strategies for Aerospace Systems: An Overview". Jiangsu College of Information Technology, Wuxi, Jiangsu, China, December 22, 2009.
 68. Invited, accepted and presented a talk titled, "Research Experiences in Singular Perturbations and Time Scales (SPaTS)- Overview", at the Center for Applied and Interdisciplinary Mathematics, Department of Mathematics, East China Normal University (ECNU), Shanghai, China, December 14, 2009.
 69. Invited, accepted and presented a talk titled, "Fusion of Soft and Hard Control Strategies for Biomedical Engineering", at the Center for Applied and Interdisciplinary Mathematics, Department of Mathematics, East China Normal University (ECNU), Shanghai, China, December 13, 2009.
 70. Invited, accepted and presented a talk titled, "Research in Singular Perturbations and Time Scales (SPaTS) for Aerospace", at the Center for Applied and Interdisciplinary Mathematics, Department of Mathematics, East China Normal University (ECNU), Shanghai, China, December 12, 2009.
 71. Invited, accepted and presented a talk titled, "Research Experiences in Automatic Control Systems", Dept. of Electrical Engineering, the University of Western Australia, Crawley, Perth, Australia, during March 17, 2008.
 72. Invited, accepted and presented a talk titled, "Research Experiences in Automatic Control Systems", at the Center for Industrial and Applied Mathematics (CIAM), Institute of Sustainable Systems and Technologies (ISST), Division of Information Technology (IT), Engineering and Environment, University of South Australia, Adelaide, Australia, 05 March 2008.
 73. Invited, accepted and presented a talk titled, "Research Experiences in Singular Perturbations and Time Scales (SPaTS)- Overview", Department of Mathematics, Nantong University (NTU), Nantong, Jiangsu, China, May 2007.
 74. Invited, accepted and presented a talk titled, "Research Experiences in Singular Perturbations and Time Scales (SPaTS)- Overview", Department of Electrical Engineering, Nantong University (NTU), Nantong, Jiangsu, China, May 2007.
 75. Invited, accepted and presented a talk titled, "Overview of Research at Measurement and Control Engineering Research Center (MCERC), Idaho State University (ISU) USA, at Measurement and Control Laboratory (IMRT: Institut für Mess- und Regeltechnik) at Swiss Federal Institute of Technology (ETH: Eidgenössische Technische Hochschule), Zurich, Switzerland, July 04, 2004.
 76. Invited, accepted and presented a talk titled, "Overview of Research at Measurement and Control Engineering Research Center (MCERC), Idaho State University (ISU) USA, at the Department of Electrical Engineering, Norwegian University of Science and Technology (NTNU), Trondheim, Norway, June 15, 2004.
 77. Invited, accepted and presented a talk titled, "Overview of Research at Measurement and Control Engineering Research Center (MCERC), Idaho State University

(ISU) USA”, at the Center of Excellence for Ships and Ocean Structures at Norwegian University of Science and Technology (NTNU), Trondheim, Norway, June 08, 2004.
