

# Dr.Srikanth Kavirayani

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## Education

- 2013–2019 Ph.D., Electrical and Electronics Engg, GITAM(Deemed to be University), Visakhapatnam, Awarded 31 Dec,2019
- 2003–2005 M.S., Electrical Engineering, Electrical and Computer Engineering Department, College of Engineering, University of Missouri-Columbia, USA
- 1998–2002 B.Tech.,Electrical and Electronics Engineering ,Gayatri Vidya Parishad College of Engineering, Affiliated to JNT University, Kakinada, India

## Appointments

- 2014– Asst. Professor, Gayatri Vidya Parishad College of Engg(A), Department, Visakhapatnam, Andhra Pradesh, India
- 2010–2013 Head of Dept, Raghu Inst. of Technology, Visakhapatnam,Andhra Pradesh, India
- 2009–2010 Asst Professor, Raghu Engineering College, Visakhapatnam, Andhra Pradesh, India
- 2006–2007 Programmer Analyst, FugenIT Solutions, Newark, New Jersey,USA
- 2005–2005 Teaching Assistant, Dept of EEE, University of Missouri-Columbia, USA
- 2004–2005 Student Assistant, Vet.bio medical sciences University of Missouri-Columbia,USA
- 2004–2004 Research Assistant, Dalton Cardiovascular research center, University of Missouri-Columbia, USA
- 2003–2004 Consultant, IATS, University of Missouri-Columbia,USA

## Selected Honours and Awards

- 2004     Editor's Choice award
- 2005     MU mites robot team, Technical Innovation award
- 2017     Best paper award

## Publications

### Latest Journals

- [1] **S. Kavirayani**, D. S. Uddandapu, A. Papasani and T. V. Krishna, "Robot for Delivery of Medicines to Patients Using Artificial Intelligence in Health Care," 2020 IEEE Bangalore Humanitarian Technology Conference (B-HTC), Vijiyapur, India, 2020, pp. 1-4. doi: 10.1109/B-HTC50970.2020.9297948
- [2] **Srikanth .K.**, Umme Salma (2020) Link between lyapunov equation and lack of optimality in energy for underactuated dynamic systems validated with parseval's condition, Journal of Dynamics of Continuous, Discrete and Impulsive Systems, Vol 27, Issue 3, Pg 167-179, Watam Press
- [3] Chakravarthy, R., Supriya, S., **Srikanth, K.**, Uddandapu, D. S., Rout, A. K., Krishna, A. M., Tangudu, S. (2020), Verification of Zener Voltage Regulation Phenomenon Using Remote Engineering. In: Auer M., Ram B. K. (eds) Cyber-physical Systems and Digital Twins. REV2019 2019. Lecture Notes in Networks and Systems, vol 80. Springer, Cham.
- [4] **Srikanth .K.**, (2019) Enhanced electromagnetic swarm yields better optimization, International journal of Swarm intelligence, ,Vol. 4, No. 2, pg (127-142), Inderscience, Switzerland
- [5] **Srikanth .K.**, U Salma, (2019). Robotic Flexible Artificial Finger Design Using Nanosized DC Motors and Gears for Finger Injuries. In: Panda G., Satapathy S., Biswal B., Bansal R. (eds) Microelectronics, Electromagnetics and Telecommunications. Lecture Notes in Electrical Engineering, vol 521. Springer, Singapore
- [6] **Srikanth .K.**, U Salma, (2018). Fuzzy Granular Computing controls ill-conditioned matrix definitions for triple inverted pendulum, Advances in Intelligent Systems and Computing, Springer, 758(53).
- [7] **Srikanth .K.**, Nagesh Kumar, v G ., (2017). Novel fuzzy preview controller for rotary inverted pendulum under time delays, International Journal of Fuzzy Logic and Intelligent Systems, 17(4), 257–263.
- [8] **Srikanth .K.**, Nagesh Kumar, v G ., (2017). Earth Quake prediction feasible more efficiently with under actuated dynamic system prototype and special transducer design, International Journal of Pure and Applied Mathematics, 114(7), 237–247.
- [9] **Srikanth, Kavirayani.**, & Gundavarapu, Nagesh Kumar. (2017). Flower pollination for rotary inverted pendulum with delay. TELKOMNIKA Telecommunication, Computing, Electronics and Control , 15(41), 245–253.

- [10] **Srikanth, Kavirayani., & Gundavarapu, Nagesh Kumar.** (2016). Hybrid flower pollination and particle swarm controller for stabilization of double inverted pendulum with time delays. *International Journal of Control theory and applications* , 9(32), 321–327
- [11] **Srikanth, Kavirayani., & Gundavarapu, Nagesh Kumar.** (2016). Naturally Inspired Firefly Controller For Stabilization Of Double Inverted Pendulum. *DeGruyter Technological Engineering*, 12(2) , 14–17

## Activities

### Recent Training Activities, 2019-

- [1] Participated in a five day industrial training program on data science using python programming organized by Indian Institute for Production Management, Kansbahala, Odhisha in association with Pantech E Elearning during 21.02.2021 to 26.02.2021.
- [2] Attended a national level faculty development programme on "Research Initiatives in advanced control systems" during 22nd to 26th Feb, 2021 organized by Dept of EEE, Muthoot Institute of Technology and Science, Ernakulam, Kerala
- [3] Attended to a five day national level online faculty development programme on "Insights of control systems and signal processing: Theory to Practice' during 02-07-2020 to 06-07-2020, organized by Department of Electrical and Electronics Engineering, Sasi Institute of Technology and Engineering, Tadepalligudem, West Godavari District, Andhra Pradesh, India.
- [4] Attended a online faculty development programme on "'Designing E-content for curriculum planning and evaluation using animation" organized by Tamil Nadu Teachers Education University, Department of curriculum planning and evaluation from 21<sup>st</sup> June, 2020 to 25<sup>th</sup> June, 2020.
- [5] **Srikanth Kavirayani** has attended to a online international faculty development programme on Avant Garde Trends in Mathematics organized by Bannari Amman Institute of Technology, Sathyamangalam from 17<sup>th</sup> June, 2020 to 23<sup>rd</sup> June, 2020.
- [6] **Srikanth Kavirayani** has successfully attended to a short term Course On Fundamentals of Brain inspired robotics at Indian Institute of Technology, Kanpur in Nov, 2019.
- [7] **Srikanth Kavirayani** has successfully attended to a Winter Course On Machine Intelligence And Brain Research from Indian Institute of Technology, Madras in association with Center for computational brain research in Jan, 2019.
- [8] **Srikanth Kavirayani** has successfully completed a online 4 week course on "Demystifying the brain" from IIT Madras in association with NPTEL, India during Jan-Feb, 2019.

### Research Interests

Control Systems, Robotics, Intelligent Systems