

**1. Name:** Yogendra P. Kakad

**Academic Rank:** Professor

**2. Degrees:**

BSE	University of Baroda	1967
MSE	University of Florida	1970
PhD	University of Florida	1975

**3. Number of years at UNC Charlotte: 40**

- Professor: 1992 - present
- Associate Professor: 1982-1992
- Assistant Professor: 1976- 1982

**4. Other related experience:**

- University of Florida, Graduate Research Assistant, 1968 – 1975
- Engineer, Madhvani Groups of Industries, Jinja, Uganda, East Africa, 1967-1968

**5. Certifications or professional registrations:** None

**6. Current membership in professional organizations:**

- IEEE, Life Senior Member, 1970 - present
- AIAA, Senior Member, 1986 - present

**7. Honors and awards:**

- Bank of America Outstanding Teacher Award Finalist 2011.
- Outstanding Graduate Faculty Award, William States Lee Collage 2011.

**8. Institutional and professional service in the last five years:**

- UNC Charlotte Honors Council Member, 2012-present...
- Member, UNC Charlotte Provost's Special Committee to revise University Promotion & Tenure Document 2013-2014.
- University Academic Planning and Budget Committee 2013.

**9. Principal publications of last five years:**

- Douglas Isenberg, Seung Back, Mark Caddell, Michael Miller, David Hill, and Y. P. kakad, "A Method of Gravity Offloading with SCARA Manipulator", Proceedings of 21<sup>st</sup> International Conference on Systems Engineering, pp.165-170, August 2011.

- Amengonu Yawo, Y. P. Kakad, “Dynamics and Control of Nonholonomic Wheeled Mobile Robots”, Proceedings of 22<sup>nd</sup> International Conference on Systems Engineering, pp.16-21, September 2012.
- Benjamin Walker, Y. P. Kakad, and Bharat Joshi, “Design of a Supervisor for a Fault Tolerant System”, Proceedings of 22<sup>nd</sup> International Conference on Systems Engineering, pp.271-276, September 2012.
- Vikram Karwal, Y. P. Kakad and, Barry Sherlock, “Independently updating the DCT and DST for shifting windowed data”, Journal of the Franklin Institute, vol.350, pp. 1345-1357, March 2013.
- Amengonu Yawo , Y. P. Kakad, and Douglas Isenberg, “The Control Moment Gyroscope Inverted Pendulum”, Advances in Intelligent Systems and Computing, Vol. 240 Springer International Publishing, Switzerland, pp.109-118, January 2014.
- Y. H. Amengonu, Y. P. Kakad, ” Dynamics and Control of Constrained Multibody Systems Modeled with Maggi’s Equations Part I” , IOP Conference Series: Materials Science and Engineering, Volume 65, 2014, 27<sup>th</sup> International Conference on CAD/CAM Robotics and Factories of the Future 2014, 22-24 July 2014, London, UK. 012017.
- Y. H. Amengonu, Y. P. Kakad, ” Dynamics and Control of Constrained Multibody Systems Modeled with Maggi’s Equations Part II” , IOP Conference Series: Materials Science and Engineering, Volume 65, 2014, 27<sup>th</sup> International Conference on CAD/CAM Robotics and Factories of the Future 2014, 22-24 July 2014, London, UK. 012017.
- Isenberg, Y.P. Kakad, “.A Quadratic Angular Velocity Approximation of the Minimum Mean Squared Angular Acceleration Attitude Quaternion Interpolation”, Submitted to the Journal of the Astronautical Sciences, November 2015

#### **10. Professional development activities in the last five years:**

- Participated at the 22<sup>nd</sup> International Conference on Systems engineering as the international conference committee member, technical session program chair and as a presenter, Coventry, U. K. September, 2012.
- Participated at the 23<sup>rd</sup> International Conference on Systems engineering as the international conference committee member, technical session program chair and as a presenter, Wroclaw, Poland, September, 2013.
- Participated at the 27<sup>th</sup> International Conference on CAD/CAM Robotics and Factories of the Future as the international conference committee member, technical session program chair and as a presenter, London, U. K., July 2014.
- Participated at the 25<sup>th</sup> International Conference on Systems engineering as the international conference committee member, technical session program chair and as a presenter, Coventry, U. K. September, 2015.