Dr. Suhada Jayasuriya **(**University Distinguished Professor and Head**)**:

RESEARCH INTERESTS: Cooperative control in multi-agent systems, Formation control under realistic actuator and dynamic constraints, bio-inspired control, mobile sensor networks, directional features of feedback for fault diagnosis, nonlinear systems, frequency domain design for robust performance, active control of vibrations, structural health monitoring, human motor control,.

EDUCATION:

B.Sc	Mechanical Engineering, 1977, University of Sri Lanka, Peradeniya, Sri Lanka
M.S.	Mechanical Engineering, 1980 ,Wayne State University, Detroit, Michigan
Ph.D.	Mechanical Engineering, 1982, Wayne State University, Detroit, Michigan

Recent Publications:

Yunjun Xu, Ming Xin, Jianan Wang, and Suhada Jayasuriya, "Hierarchical Control of Cooperative Nonlinear Dynamical Systems," International Journal of Control, April 18, 2012.

Wei Wu, and Suhada Jayasuriya, "A robust synthesis methodology for neutrally stable uncertain SISO plants under input amplitude saturation," International Journal of Systems Science, August 2011.

Maithripala, D.H.A., Maithripala, D.H.S., and Jayasuriya, S. "Geometric Approach to Dynamically Feasible, Real-time Formation Control," ASME Journal of Dynamic Systems, Measurement and Control, Vol. 133, 021010 1-14, March 2011.

Kerr, Murray, Turner, Matthew C., Villota, Elizabeth, Jayasuriya, Suhada and Postlethwaite, Ian, " A Robust Anti-windup Design Procedure for SISO Systems", International Journal of Control, Vol. 84, Issue 2, 351, February 2011.

Wu, Wei, and Jayasuriya, S., "An Internal Model Control Anti-windup Scheme with Improved Performance for Input Saturation via Loop shaping," ASME Journal of Dynamic Systems, Measurement and Control, Vol. 132, 014504, January 2010.

Yi, J., Wang, H., Zhang, J., Song, D., Jayasuriya, S., and Liu, J., "Kinematic Modeling and Analysis of Skid Steered Mobile Robots with Applications to Low-cost Inertial Measurement Unit-based Motion Estimation," IEEE Transactions on Robotics, Vol. 25, No.5, pp. 1087-1097, October 2009.

Kerr ML, Lan C-Y, and Jayasuriya S., " Non-sequential MIMO QFT Control of the X-29 Aircraft using a Generalized Formulation," International Journal of Robust and Nonlinear Control, Vol. 17, issue 2-3, pp. 107-134, January 2007.

Scientific and Professional Societies:

Fellow ASME

Fellow	AAAS
Senior Member	IEEE
Member	SIAM
Member	Sigma Xi

Honors and Awards:

Gustus L. Larson Memorial Award, 1997, ASME

Henry M. Paynter Outstanding Investigator Award, 2002, Dynamic Systems and Control Division, ASME

Michael J. Rabins Leadership Award, 2008, Dynamic Systems and Control Division, ASME

Distinguished Engineering Alumni Achievement Award, 2009, Hall of Fame, College of Engineering, Wayne State University