

**Frank L. Lewis, Ph.D., Fellow, National Academy of Inventors
Fellow IEEE, Fellow IFAC, Fellow U.K. Inst. MC, Fellow AAAS
Professional Engineer Texas, Chartered Engineer U.K.
University Distinguished Scholar Professor, University Distinguished Teaching Professor
Moncrief-O'Donnell Endowed Chair. Head, Advanced Controls & Sensors Group**

UTA Research Institute
The University of Texas at Arlington
7300 Jack Newell Blvd. S, Ft. Worth, Texas 76118
817-272-5972, fax 272-5989, lewis@uta.edu
<http://arri.uta.edu/acs>

Biosketch, October 4, 2022

Dr. Frank L. Lewis was born in Würzburg, Germany, subsequently studying in Chile and Gordonstoun School in Scotland. He obtained the Bachelor's Degree in Physics/Electrical Engineering and the Master's of Electrical Engineering Degree at Rice University in 1971. He spent six years in the U.S. Navy, serving as Navigator aboard the frigate USS Trippe (FF-1075), and Executive Officer and Acting Commanding Officer aboard USS Salinan (ATF-161). In 1977 he received the Master's of Science in Aeronautical Engineering from the University of West Florida. In 1981 he obtained the Ph.D. degree at The Georgia Institute of Technology in Atlanta, where he was employed as a professor from 1981 to 1990. He is Moncrief-O'Donnell Endowed Chair Professor of Electrical Engineering at The University of Texas at Arlington.

Lewis is Ranked as number 19 in the world of all scientists in Electronics and Electrical Engineering by Research.com. Ranked number 5 in the world in the subfield of Industrial Engineering and Automation according to a Stanford University Research Study in 2021. Fellow, National Academy of Inventors. Fellow of the IEEE, Fellow of IFAC, Fellow of the U.K. Institute of Measurement & Control, Fellow European Union Academy of Sciences, Fellow American Association for the Advancement of Sciences, Member of the New York Academy of Sciences. Registered Professional Engineer in the State of Texas and Chartered Engineer, U.K. Engineering Council. 80,800 google citations, h-index 123. Charter Member (2004) of the UTA Academy of Distinguished Scholars. UTA Academy of Distinguished Teachers 2012. IEEE Control Systems Society *Distinguished Lecturer 2012-2014*. Founding Member of the Board of Governors of the Mediterranean Control Association. Served as Visiting Professor at Democritus University in Greece, Hong Kong University of Science and Technology, Bristol University UK, Chinese University of Hong Kong, City University of Hong Kong, National University of Singapore, Nanyang Technological University Singapore.

Received IEEE Computational Intelligence Society Neural Networks Pioneer Award 2012, AIAA *Intelligent Systems Award* 2016, *John Ragazzini Education Award* 2018 from American Automatic Control Council. Received Fulbright Research Award 1988, American Society of Engineering Education F.E. Terman Award 1989, Int. Neural Network Soc. *Gabor Award* 2009, U.K. Inst Measurement & Control *Honeywell Field Engineering Medal* 2009, three Sigma Xi Research Awards, UTA Halliburton Engineering Research Award, UTA Distinguished Research Award, ARRI Patent Awards, various Best Paper Awards, IEEE Control Systems Society Best Chapter Award (as Founding Chairman of DFW Chapter), and National Sigma Xi Award for Outstanding Chapter (as President of UTA Chapter). Received Outstanding Service Award from the Dallas IEEE Section and selected as Engineer of the year by Ft. Worth IEEE Section. Listed in Ft. Worth Business Press Top 200 Leaders in Manufacturing. Appointed to NAE Committee on Space Station in 1995 and IEEE Control Systems Society Board of Governors in 1996. Received the 2010 IEEE Region 5 Outstanding Engineering Educator Award and the 2010 UTA Graduate Dean's Excellence in Doctoral Mentoring Award. Texas Regents Outstanding Teaching Award 2013.

Current interests include autonomous systems, unmanned aerial vehicles, distributed cooperative control on graphs, reinforcement learning, nonlinear systems, intelligent control, process control, and neurobiological systems. Author of 7 U.S. patents, 472 journal papers, 52 chapters and encyclopedia articles, 420 refereed conference papers, and 20 books including *Optimal Control*, *Optimal Estimation*, *Applied Optimal Control and Estimation*, *Aircraft Control and Simulation*, *Control of Robot Manipulators*, *Neural Network Control*, *High-Level Feedback Control with Neural Networks* and the IEEE reprint volume *Robot Control*. Editor of Taylor & Francis Book Series on Automation & Control Engineering. Served as Editor for the flagship journal *Automatica*. Served/serves on many Editorial Boards including *International Journal of Control*, *Neural Computing and Applications*, *Optimal Control & Methods*, and *Int. J. Intelligent Control Systems*. Recipient of NSF Research Initiation Grant and continuously funded by NSF since 1982. He has received \$12 million in funding from NSF, ARO, ONR, AFOSR and other government agencies, including significant DoD SBIR and industry funding. His SBIR program was instrumental in ARRI's receipt of the US SBA *Tibbets Award* in 1996.