

# PUBLICATIONS

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Tuesday, October 04, 2022

*Moncrief-O'Donnell Endowed Chair, Professor of Electrical Engineering, UTA*

Fellow, National Academy of Inventors

Professional Engineer, State of Texas

Chartered Engineer, U.K. Engineering Council

Fellow, International Federation of Automatic Control (IFAC)

Life Fellow, Institute of Electrical and Electronics Engineers (IEEE)

Fellow, Institute of Measurement and Control, U.K.

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Fellow American Association for the Advancement of Science (AAAS)

*University Distinguished Scholar Professor, UTA*

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*Texas Regents Outstanding Teacher*

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**Lewis is Ranked as number 19 in the world of all scientists in Electronics and Electrical Engineering by Research.com**

<https://research.com/scientists-rankings/electronics-and-electrical-engineering>

**Lewis is ranked number 5 in the world in the subfield of Industrial Engineering and Automation according to a Stanford University Research Study in 2021.**

**F. Lewis is a Top 1% Highly Top Cited Researcher by Clarivate Web of Science, November, 2021. Cited as a Highly Cited Researcher every year since 2019. 75,555 google citations, h-index 123.**

Thomson Reuters Web of Science Highly Cited Researcher 2018-2020.

**Author of 23 books, 465 journal papers, 35 reprint volumes/journal special issues, 63 book chapters, 429 fully refereed & published conference papers.**

**Textbooks.** Author of 23 books, including 5 textbooks currently in use in universities worldwide- *Optimal Control, Optimal Estimation, Aircraft Control and Simulation, Applied Optimal Control, Robot Manipulator Control.*

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## Books

- [1] Hao Liu, Deyuan Liu, Yan Wan, Frank L. Lewis, and Kimon P. Valavanis, *Robust Formation Control for Multiple Unmanned Aerial Vehicles*, Taylor and Francis book series, accepted Sept 2022. \*\*
- [2] Yan Wan, K.G. Vamvoudakis, Yangquan Chen, and F.L. Lewis, *Smarter Cyberphysical Systems: Enabling Technologies and Applications*, CRC Press, Taylor and Francis, 2021, to appear.
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[This book was translated into Chinese.](#)  
[This book reached 38,782 chapter downloads in 2016. It is a top 25% Springer downloaded book.](#)
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- Note: these two books resulted in the receipt of the American Society of Engineering Education (ASEE) Frederick Emmons Terman Award in 1989.*

## Journal Papers

### **Reinforcement Learning, Intelligent Control, Game Theory, Optimization**

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**Listed as a 2018 Publication Spotlight of the IEEE Computational Intelligence Society**

**Paper recognized as one of the 2018 Google Scholar Classic Papers in the area of Automation and Control Theory.**

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***This was the top most downloaded paper for the month of February 2017. It was listed as a top CSM 50 cited paper in June 2020.***

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## **Neural Networks for Control**

*Note: For additional papers on neural network control see ‘Intelligent Control and Adaptive Critics’ and ‘Mobile Robots’*

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