

Dr. Kuo-Chi “Kurt” Lin

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EDUCATION:

Ph.D., Aerospace Engineering, University of Michigan, 1990
M.S., Aerospace Engineering, University of Michigan, 1986
M.S., Mechanical Engineering, National Cheng-Kung University, Taiwan, 1979
B.S., Mechanical Engineering, National Cheng-Kung University, Taiwan, 1975

EXPERIENCE:

1990 - present

Associate Professor and Associate Chair

(Assistant Professor: 1990, Associate Professor: 1995, Associate Chair of MMAE: 2006)

Joint Faculty between Department of Mechanical, Materials & Aerospace Engineering (MMAE) and Institute for Simulation and Training (IST)

University of Central Florida, Orlando, Florida

1995, 1996, 1999, 2000, 2003, and 2005: Summer Faculty, AFRL, Wright-Patterson AFB, Ohio

1997 and 2001: Summer Faculty, AFRL, Rome, New York

2002: Summer Faculty, US Army TACOM, Warren, Michigan

HONORS AND AWARDS

2003 Department of Mechanical, Materials & Aerospace Engineering Excellence in Undergraduate Teaching Award

2003 College of Engineering and Computer Science (CECS) Excellence in Undergraduate Teaching Award

CURRENT RESEARCH PROJECTS

Selected list as the Principal Investigator:

1. “Study the Critical States of the Large Human-Robot System”, US Army Research Laboratory, \$37K, 1 year.
2. “Modeling and Simulation of Out-of-Control Rockets for Range Safety”, NASA KSC, \$25K, 1 year.
3. “Probabilistic Modeling of the CNT-PNC Based Sensor”, IST in-house grant, \$5K, 6 months.

PAST RESEARCH PROJECTS

Selected list as the Principal Investigator or Co-PI:

1. "Modeling and Simulation of Out-of-Control Rockets for Range Safety ", Space Research Initiative, \$80K, 2 year.
2. "Distributed Collaborative Decision Support Technologies - Automated Decision Support Study", AFRL through SAIC, \$15K, 1 year.
3. "AEE Functionality Methods and Tools Baseline", NASA through ASRC Aerospace Corporation, \$17K, 1 year.
4. "Automatic Decision Support Study", AFRL through SAIC, \$29K, 1 year. "Space Mission Enhancements via Autonomous Robotic Systems", UF-UCF SRI, \$80K, 1 year.
5. "Deployable 3D Trauma Training Center: Modules One and Two", STRICOM/NAWCTSD, \$200K, 1 year.
6. "Workshop in Fostering Innovation in Command, Control and Intelligence Technology", AFRL, \$25K, 6 months.
7. "Development of a Projection Head-Mounted Display for Integration with the Mannequin for the Military Medics II", STRICOM/NAWCTSD, \$315K, 2 year.
8. "Interoperability Testbed of Synchronous Parallel Environment for Emulation and Discrete-Event Simulation (SPEEDES)", SAIC, \$20K, 1 year.
9. "Simulation of a Swarm of UCAV's", AFRL, \$10K, 1 year.
10. "3-D Dynamic Anatomy: Virtual Reality Prototype", NIH, \$500K, 5 years.
11. "Automatic Program Partitioning Study", SAIC, \$20K.
12. "Development of a Projection Head-Mounted Display for Integration with the Mannequin for the Military Medics", STRICOM/NAWCTSD, \$190K.
13. "Spray Cooling for Computer Applications", Sun Microsystems, \$56K, 1 year.
14. "Research on a Soft-Touch/Multi-Arm Robotic System", I-4 Matching, \$50K.
15. "An Electrical Motion Platform", Presidential Initiative to Fund Major Research Equipment project, \$52K.
16. "Distributed Web Simulation", AFOSR, \$25K.
17. "Vibration and Particle Measurement of the PST MGTL", BCC \$22K.
18. "Development of an MEMS-Based Motion Testing System for Open-Access Cleanroom at BCC", USDC \$45K.
19. "Standard Software Architecture for Reconfigurables (SSAR) Project", Veda, \$8K.
20. "Development of Improved Dead Reckoning Algorithms for Distributed Interactive Simulation", \$600K.
21. "Pitting Data Correlation", USBI, 10K.
22. "Mathematical Testbed for System Controller Development—M1 Tank Modeling", GD Land Div., \$10K.
23. "Helicopter Rotor Model", Loral, \$100K.

PUBLICATIONS:

- [1] Howe, R. M., Lin, K. C., "The Use of Function Generation in the Real-time Simulation of stiff systems", *Proc. of the AIAA Flight Simulation Technologies*, Dayton, OH, September 1990, pp. 217-224.
- [2] Lin, K. C., Howe R. M., "The Use of Staggered Integration Steps in the Simulation of Dual-Speed Systems", *Proc. of the 1991 Simulation Multiconference*, New Orleans, LA, April 1991, pp. 409-414.
- [3] Lin, K. C., Howe R. M., "A New Approach to the Real-time Simulation of Control Systems with Discontinuities", *Proc. of the 1991 American Control Conference*, Boston, MA, June 1991, pp. 2122-2127.
- [4] Lin, K. C., Howe R. M., "Speed and Memory Requirements for Different Methods of Multivariable Function Generation in Real-Time", *Proc. of the 1991 Summer Computer Simulation Conference*, Baltimore, MD, July 1991, pp. 252-256.
- [5] Goldiez, B, Lin, K. C., "Representation of Vehicle Orientation in Networked Simulation", *Proc. of the AIAA Flight Simulation Technologies Conference*, New Orleans, LA, August 1991, pp. 271-276.
- [6] Lin, K. C., Howe R. M., "A Series of Modified Predictor Algorithms", *Proc. of the Simulation Technology Conference International*, Orlando, FL, October 1991, pp. 106-110.
- [7] Bergsneider, C., Lin, K. C., Browder, B., "Reusable Helicopter Modeling for Simulation", *Proc. of the 1992 Simulation Multiconference*, Orlando, FL, April 1992, pp. 47 - 51.
- [8] Lin, K. C., "Using System Identification to Improve the Performance of a Low-Cost Flight Simulator", *Proc. of the 1992 American Control Conference*, Chicago, IL, June 1992, pp. 1539 - 1543.
- [9] Lin, K. C., "Dead-Reckoning in Distributed Interactive Simulation" *Proc. of the Third Annual Conference of the Chinese-American Scholars Association of Florida*, Miami, FL, June 1992, pp. 1 - 5.
- [10] Goldiez, B, Lin, K. C., Ng, H., "Orientation Representation for Vehicles in Distributed Interactive Simulation", *Position Paper 92-29, The Seventh Workshop on the Standard for the Interoperability of Defense Simulation*, Orlando, FL, September 1992, pp. A53 - A56.
- [11] Lin, K. C., Howe, R. M., "Real-Time Simulation of Stiff Systems Using Function Generation", *International Journal in Computer Simulation*, Vol. 3, No. 1, pp. 43-59 (1993).
- [12] Lin, K. C., Ng, H., "Coordinate Transformation in Distributed Interactive Simulation", *Proc. of the 1993 Simulation Multiconference*, Arlington, VA, March 1993, pp. 459 - 463.
- [13] Pickerine, J. A., Lin, K. C., Lisle, C. R., Guruprasad, G., "Reusable Code Structures for Simulation", *Proc. of the 1993 Simulation Multiconference*, Arlington, VA, March, 1993, pp. 434 - 439.
- [14] Lin, K. C., Howe, R. M., "Real-Time Simulation of Control Systems with Discontinuities", *Journal of Control Systems and Technology*, Vol. 1, No. 2, pp. 155-161 (1993).

- [15] Lin, K. C., Goldiez, B, Ng, H., “Representation of Vehicle Location in Networked Simulations”, *Proc. of the AIAA Flight Simulation Technologies Conference*, Monterey, CA, August 1993, pp. 222-226.
- [16] Lin, K. C., Lu, P., Smith, M., “The Numerical Errors in Inverse Simulation”, *Proc. of the AIAA Flight Simulation Technologies Conference*, Monterey, CA, August 1993, pp. 251-256.
- [17] Pickerine, J. A., Lin, K. C., Lisle, C. R., Guruprasad, G., “Reusable Code for Helicopter Simulation”, *Proc. of the AIAA Flight Simulation Technologies Conference*, Monterey, CA, August 1993, pp. 281-288.
- [18] Lin, K. C., “Comment on 'Generalized Technique for Inverse Simulation Applied to Aircraft Maneuvers'”, *AIAA Journal of Guidance, Control, and Dynamics*, Vol. 16, No. 6, 1993, pp. 1196-1197.
- [19] Lin, K. C., Ng, H., “Coordinate Transformation in Distributed Interactive Simulation”, *Simulation*, Vol. 61, No. 5, 1993, pp. 326-331.
- [20] Pickerine, J. A., Lin, K. C., “Reusable Code for Flight Simulation”, *Proc. of the Simulation Technology Conference International*, San Francisco, CA, November 1993, pp. 35-40.
- [21] Lin, K. C., Howe, R. M., “Simulation Using Staggered Integration Steps, Part I: Intermediate-Step Predictor Methods”, *Trans. of the Society for Computer Simulation*, Vol. 10, No. 3, 1993, pp. 153-164.
- [22] Lin, K. C., Howe, R. M., “Simulation Using Staggered Integration Steps, Part II: Implementation on Dual-Speed Systems”, *Trans. of the Society for Computer Simulation*, Vol. 10, No. 4, 1993, pp. 285-297.
- [23] Lin, K. C., Lu, P., “State-Tracking Controller Design for a Tracking Vehicle”, *Journal of Control Systems and Technology*, Vol. 1, No. 4, 1993, pp. 297-302.
- [24] Lin, K. C., Schab, D., “The Performance Assessment of the Dead Reckoning Algorithms in DIS”, *Proc. of the 1994 Summer Computer Simulation Conference*, LaJolla, CA, July 1994, pp. 848-853.
- [25] Lin, K. C., Schab, D., “Study on the Network Load in Distributed Interactive Simulation”, *Proc. of the 1994 AIAA Flight Simulation Technologies Conference*, Scottsdale, AZ, August 1994, pp. 202-209.
- [26] Lu, P., Lin, K. C., “Nonlinear Control of an Autonomous Tracked Vehicle”, *Trans. Institute of Measurement and Control*, Vol. 16, No. 4, 1994, pp. 214-220.
- [27] Lin, K. C., Wang, J., “Transformation from Geocentric to Geodetic Coordinates Using Newton's Iteration”, *Bulletin Géodésique*, Vol. 69, 1995, pp. 300-303.
- [28] Lin, K. C., Schab, D., “The Performance Assessment of the Dead Reckoning Algorithms in DIS”, *Simulation*, Vol. 63 No. 5, 1994, pp. 318-325.
- [29] Lin, K. C., Schab, D., “Study on the Network Load in Distributed Interactive Simulation”, *AIAA Journal of Aircraft*, Vol. 32, No. 6, 1995, pp. 1392-1394.
- [30] Lin, K. C., Lu, P., “Inverse Simulation - An Error Analysis”, *Simulation*, Vol. 65 No. 6, 1995, pp. 385-392.
- [31] Wang, M. C., Lin, K. C., “Self-validating Computation for Selected Probability Functions”, *Proc. of the 1995 International Quality Forum, Applications of Interval Computations: International Workshop*, El Paso, TX, February 1995, pp. 222-223.

- [32] Lin, K. C., “Dead reckoning and Distributed Interactive Simulation”, *Proc. of SPIE's International Symposium on Aerospace, CR58*, Orlando, FL, April 1995, pp. 16-36.
- [33] Wang, J., Lin, K. C., Yeh, J., “Application of Digital Image Processing Techniques in Corrosion Pitting Evaluation” *Proc. of the Sixth Annual Conference of the Chinese-American Scholars Association of Florida*, Boca Raton, FL, June, 1995, pp. 11 - 18.
- [34] Salehi, A., Li, J., Lin, K. C., Lu, P., “Motion Controller Design of Autonomous Vehicles”, *Proc. of the 1995 AIAA Guidance Navigation and Control Conference*, Baltimore, MD, August 1995, pp. 1575-1579.
- [35] Lin, K. C., Wang, M., Wang, J., Schab, D., “The Smoothing of Dead Reckoning Image in Distributed Interactive Simulation”, *Proc. of the 1995 AIAA Flight Simulation Technologies Conference*, Baltimore, MD, August 1995, pp. 83-87.
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- [37] Lin, K.C., Blair, J., Woodyard, J., “Study on Dead Reckoning Translation in High Level Architecture”, *Proc. of the 15th Workshop on the Interoperability of Distributed Interactive Simulation*, Orlando, FL, September 1996, pp. 395-401.
- [38] Lin, K.C., “Study on the System Instability Caused by Time Delay”, *Proc. of the 1997 Spring Simulation Interoperability Workshop*, Orlando, FL, March 1997, pp. 277-283.
- [39] Lin, K.C., Zhang, B., “Function Generation in Real-Time Simulation”, *Simulation*, Vol. 68, No. 3, 1997, pp. 157-163.
- [40] Li, J., Lin, K. C., “Robust Adaptive Control of Robot Manipulators”, *Proc. of the Eighth Annual Conference of the Chinese-American Scholars Association of Florida*, Orlando, FL, June 1997, pp. 27-30.
- [41] Lin, K. C., “Time Delay and System Stability in DIS”, *Proc. of the 1997 Summer Computer Simulation Conference*, Arlington, VA, July 1997, pp. 631-634.
- [42] Lin, K. C., “Dead Reckoning Dynamic Accuracy Determination in HLA”, *Proc. of the 1997 Summer Computer Simulation Conference*, Arlington, VA, July 1997, pp. 635-638.
- [43] Lin, K. C., Blair, J., Woodyard, J., “Study on Dead-Reckoning Translation in High-Level Architecture”, *Simulation*, Vol. 69, No. 2, 1997, pp. 103-109.
- [44] Lin, K. C., “Simulation of Distributed Dynamic Systems with Time Delays”, *Proc. of the 1997 Fall Simulation Interoperability Workshop*, Orlando, FL, September 1997, pp. 101-108.
- [45] Lin, K. C., Sisti, A., Chow, L., “Study on Crowded Two-Dimensional Airspace—Self Organized Criticality”, *AIAA Journal of Aircraft*, Vol. 35, No. 2, March-April 1998, pp. 301-306.
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- [47] Huang, J. Y., Chang, J. L., Lee, A.-J., Lin, K. C., “Design of a Multiple Participant 3D War Game System over WWW”, *Proc. of the Conference of Enabling Technology for Simulation Science II*, Orlando, FL, April, 1998, pp. 303-312.

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- [52] Lin, K. C., “Path Design for Brittle Material Handling”, *Proc. of the 11th Annual Conference of the Chinese-American Scholars Association of Florida*, Orlando, FL, July 2000, pp. 35-37.
- [53] Lin, K. C., Wu, A. S., Qu, Z., Joshi, Tanmoy, "Path Design of Large Flexible Material Handling", *Proceedings of 2000 ASME International Mechanical Engineering Congress*, DE-Vol. 108, Dynamics, Acoustics and Simulations, Orlando, FL, November 2000, pp. 221-225.
- [54] Jin, W., Qu, Z., Lin, K. C., "Design and Simulation of Robust and Adaptive Controls for a Nonlinear String System", *Proceedings of 2000 ASME International Mechanical Engineering Congress*, DE-Vol. 108, Dynamics, Acoustics and Simulations, Orlando, FL, November 2000, pp. 193-200.
- [55] Tan, S. W., Lin, K. C., Chow, L., Chen, R. H., Griffin, A., Rini, D., “Computer Simulation of Spray Cooling System for FC-72”, *Proceedings of the 12th CASAF Annual Conference*, Boca Raton, FL, June 2001, pp. 11-18.
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- [57] Lin, K. C., Galloway, R. T., “Dynamics Topics in the Proposed Real-Time Simulator Design Course”, *Proceedings of 2001 Summer Computer Simulation Conference*, Orlando, FL, July 2001, pp. 559~560.
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- [59] Alexander, S., Sisti, A., Lin, K. C., “Autonomous UCAVs in a Synthetic Battle Field”, *Proceedings of 2001 Summer Computer Simulation Conference*, Orlando, FL, July 2001, pp. 310~314.
- [60] Lin, K. C., Farr, S., Sisti, A., Alexander, S., “Dynamic Situation Assessment and Prediction on Controlling a Swarm of UCAVs”, *Proceedings of the 3rd Collaborative Technologies and Systems Symposium*, San Antonio, TX, Jan. 2002, pp. 207~212.
- [61] Davis, L., Ha, Y., Frolich, S., Martin, G., Meyer, C., Norfleet, J., Lin, K.C., Rolland, J.P., "Desktop Augmented Reality: Visualization of Anatomical Airways", *Proceedings of the Medicine Meets Virtual Reality Conference*, Newport Beach, CA, January 2002.

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- [63] Lin, K. C., Yu, H., Zhou, L., Xia, Z., Sisti, A., Alexander, S., "Robust Control of a Swarm of UCAVs", *Proceedings of the Conference of Enabling Technology of Simulation Science VI*, SPIE Vol. #4716, Orlando, FL, April 2002, pp 108~115.
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- [70] Albekord, K., Watkins, A., Wiens, G., Fitz-Coy, N., Lin, K. C., "Multiple-Agent Surveillance Mission with Non-stationary Obstacles", *FCRAR 2004*, Orlando, FL, May 2004.
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- [72] Wu, A. S., Yu, H., Jin, S., Schiavone, G., and Lin, K. C., "An Incremental Genetic Algorithm Approach to Multiprocessor Scheduling", *IEEE Transactions on Parallel and Distributed Systems*, Vol. 15 , No. 9 , Sept. 2004, pp. 824 - 834.
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- [87] Lin, K. C., J. Gou, L. An, J. Bai, L. Zhang, D. Lee, “The Conductivity Percolation Model of Carbon Nanofiber Composite”, 11th International Conference on Engineering, Science, Construction, and Operations in Challenging Environments, March 3-5, 2008, Long Beach, CA, accepted.

PROFESSIONAL SOCIETIES:

Senior Member, American Institute of Aeronautics and Astronautics (AIAA), Member, Society for Computer Simulation (SCS)