

Dr. Yan Jin's Curriculum Vitae

Name: Yan Jin

Current Position: **Professor**, Department of Aerospace and Mechanical Engineering
Director, USC IMPACT Laboratory
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1. EDUCATION

Ph.D. Naval Engineering	University of Tokyo	September 1988
M.S. Naval Architecture	Tokyo Univ. of Marine Science & Technology	March 1985
B.S. Engineering	Dalian Marine University	February 1982

2. HONORS AND AWARDS

Fellow, American Society of Mechanical Engineers (**ASME**) (2010)

Editor-in-Chief, *Int'l Journal of Artificial Intelligence for Engineering Design, Analysis, and Manufacturing* (AIEDAM) Cambridge University Press (2012/1 - 2017/1)

Associate Editor, *Design Science, Int'l Journal*, Cambridge University Press (2014/10 - 2023/10)

Associate Editor, *ASME Transactions – Journal of Mechanical Design* (2005/6 – 2012/6)

Chair, Honors & Awards Committee, ASME Design Engineering Division (2011/7 – 2014/6)

Executive Committee Member, ASME Design Engineering Division (2011/7 – 2014/6)

Editorial Board Member, *Int'l Journal of Design Creativity and Innovation*, Taylor & Francis (2012/7– Present)

Editorial Board Member, *Int'l Journal of Artificial Intelligence in Engineering Design, Analysis and Manufacturing*, Cambridge University Press (2003/1–2011/12; 2017/1—Present)

Editorial Board Member, *Int'l Journal of Advanced Engineering Informatics*, Elsevier (2002/1– Present)

Editorial Board Member, *Journal of Recent Patents on Mechanical Engineering*, Benthan Science Publishers (2007/6—2015/12)

NSF CAREER Award, National Science Foundation (1998/4)

TRW Excellent Teaching Award, University of Southern California (2001/4)

Conference Chair, ASME 17th International Conference on Design Theory and Methodology (2005/9)

Program Chair, ASME 16th International Conference on Design Theory and Methodology (2004/9)

Vice-Chair: ASME Design Theory and Methodology Committee (2001/7 – 2003/6)

Most Viewed Paper, *Journal of Computational and Mathematical Organization Theory* (2005/10)

Xerox Best Paper Award, ASME 14th International Conference on Design Theory and Methodology, Montreal, Canada (2002/9)

Best Paper in Human-Information Systems, 5th World Multi-Conference on Systemics, Cybernetics and Informatics (2001/7)

Youth Best Paper Award, Shanghai Academy of Science (1989/11)

Selected for Inclusion, Marquis Who's Who in America, since the 57th Edition (2002/11), and Who's Who in the World, since 27th Edition (2002/11)

Invited Keynote, "Transfer Reinforcement Learning for Robotic Autonomous Collision Avoidance" at The Second Conference on Big Data Driven Intelligent Manufacturing, July 14, 2019, Shanghai, China

Invited Keynote, Development of Information Technologies for Future Enterprises, 1996 National Conference of Computer Integrated Manufacturing (CIM) for Shipbuilding, Japan (1996/6)

Monbusho Scholarship Award, Education Ministry of Japan (1983/3 – 1988/9)

3. EMPLOYMENT HISTORY

3.1 Academic Experience

2007/5 - Present **Professor**, Dept. of Aerospace & Mechanical Engineering

2010/1 – 2015/8 **Associate Chair**, Dept. of Aerospace & Mechanical Engineering

2011/3 – 2014/12 **Guest Professor**, Shanghai Jiao Tong University

1999/9 – 2007/4 **Associate Professor**, Dept. of Aerospace & Mechanical Engineering,

2001/3 - Present **Director**, USC IMPACT Laboratory, University of Southern California

2004/6 - 2005/10 **UPS Foundation Visiting Professor**, Department of Civil & Environmental Engineering, Stanford University

2002/10 - 2004/3 **Visiting Associate Professor**, Department of Civil & Environmental Engineering, Stanford University

1996/9 - 1999/8 **Assistant Professor**, Department of Mechanical Engineering,
Associate Director, IMPACT Laboratory, University of Southern California

1995/9 - 1996/8 **Senior Research Scientist**, Dept. of Civil Engineering, Stanford University

1992/4 - 1995/8 **Research Associate**, Dept. of Civil Engineering, Stanford University

1991/6 - 1992/3 **Postdoctoral Research Fellow**, Dept. of Civil Engineering, Stanford University

1990/3 - 1991/5 **Visiting Research Scientist**, Department of Naval Architecture & Ocean Engineering, The University of Tokyo

1989/1 - 1990/2 **Postdoctoral Research Fellow**, Department of Automatic Control, Shanghai Jiao Tong University

1985/4 - 1988/9 **Research Assistant**, Department of Naval Architecture & Ocean Engineering, The University of Tokyo

1983/4 - 1985/3 **Research Assistant**, Institute of Industry Science, The University of Tokyo

3.2 Industrial Experience

2015/2 – 2018/2	Technical Advisor, Monohakobi Technology Institute , Japan
2009/4 – 2013/3	Senior Engineer (Adjunct), RAND Corporation
2007/2 – 2012/3	Technical Advisor, Japan Marine Science Incorporated , Japan
2003/4 - 2005/3	Technical Advisor, ePM LLC , Austin, Texas
1996/7 - 2003/3	Co-Founder, VP, Board Director, Technical Advisor, Vite Inc. Palo Alto, California
2002/3 - 2002/6	Invited Consultant, JAXA - Japan Aeronautics & Space Development Agency
2001/7	Invited Consultant, Intel Corporation . Chandler, Arizona
2000/5	Invited Consultant, AT&T Wireless , Cerritos, California
1999/10	Invited Consultant, John Deere (Deere & Company), Dubuque, Iowa.
1998/4 - 2001/3	Technical Advisor, Mitsubishi Research Institute , Tokyo, Japan
1994/8 - 1996/12	Technical Advisor, Japan CIMS for Shipbuilding Consortium , Tokyo, Japan
1995/6 - 1995/12	Invited Consultant, Design Power Inc. , Cupertino, California
1994/8 - 1995/9	Technical Advisor, Toyota Caelum Incorporated , Nagoya, Japan
1994/8	Invited Consultant, Mitsui Engineering and Shipbuilding Co. Ltd. Tokyo, Japan
1994/4	Invited Consultant, Det Norske Veritas (DNV) , Oslo, Norway
1990/6 - 1991/5	Technical Advisor, Mitsui Zosen System Research Incorporated , Tokyo, Japan
1990/3 - 1991/5	Technical Advisor, CIMS for Shipbuilding Consortium , Tokyo, Japan

4. PUBLICATIONS

4.1 Refereed Journals:

1. Zhang, Z, and Jin, Y., “Toward Computer Aided Visual Analogy Support (CAVAS): A Deep Learning Approach”, to be submitted to *ASME Transactions – Journal of Mechanical Design*, 2021
2. Zhang, Z, and Jin, Y., “Data-enabled sketch search and retrieval for design by visual analogy”, submitted to *International Journal of Artificial Intelligence for Engineering Design, Analysis and Manufacturing (AIEDAM)*, 2020
3. Ji, Hao, Jin, Yan. “Designing Self-organizing Systems: Acquiring knowledge with Deep Multi-agent Reinforcement Learning” submitted to *ASME – Journal of Computer and Information Science for Engineering*, 2020.
4. Liu, X, Jin, Yan, “Reinforcement Learning based Collision Avoidance: Impact of Reward Function and Knowledge Transfer” in *Artificial Intelligence for Engineering Design, Analysis and Manufacturing, Vol.34/2*, 2020.
5. Williams, E., Jin, Yan “Dynamic Probability Fields for Risk Assessment and Guidance Solutions” in *Annual of Navigation*, 2019, DOI: 10.1515/aon-2019-0004

6. Ji, Hao, Jin, Yan. "Adoption of Social Rules in Teams of Different Sizes" in *Engineering Management Reviews*, 2017, 6(1), 6-15. doi: 10.14355/emr.2017.0601.002
7. Zhang, Z, Gong, L., Jin, Y., Xie, J., Hao, J. "A quantitative approach to design alternative evaluation based on data-driven performance prediction", *International Journal of Advanced Engineering Informatics*, 32, pp.52-65, Elsevier, 2017
8. Zhang, J., Y. Jin, J. Xu, "Integrating resources of enterprises and universities for closer industry-institution collaboration," *Journal of World Education*, No.418 (2017, No.10), pp.25-31. 2017
9. Liu, B. Huang, S. Fan, W. Xiao, T., Humann, J., Lai, Y. and Jin. Y. "Data Driven Uncertainty Evaluation for Complex Engineered System Design" in *Chinese Journal of Mechanical Engineering*, 29 (5), 889-900; May 2016, Springer
10. Newsha, K., Humann, J. and Jin, Y. "Effect of Social Structuring in Self-Organizing Systems," *ASME Journal of Mechanical Design*, Vol.138, 041101.1-11, 2016
7. Sauder, J. and Jin, Y. "A qualitative study of collaborative stimulation in group design thinking," appear in *Design Science*, Vol.2, e4, Cambridge Univ. Press, 2016
8. Moore, D., Sauder, J. and Jin, Y. "Exploring Dual-Processes of Iteration in Conceptual Design", *International Journal of Engineering Education*, Vol.32 (3), 2016.
9. Jin, Y. "An exploratory study of integrated online and onsite learning" in *Journal of Open Learning*, Vol.95/1, 2016. Beijing Open University Press
10. Suzuki, Y., Koyama, H. and Jin, Y. " A Simulation-based-approach for Examining the Influences of Human Resource Allocation on Manufacturing Process Performances", in *Journal of Japan Association for Management Systems*. Vol.32, No.2, pp. 111-121, 2015
11. Suzuki, Y., Koyama, H. and Jin, Y. "A Study on the Quantitative Method for Choosing an Appropriate Skill Developing Strategy", in *Transactions of the Japan Society of Mechanical Engineering, Series C*. Vol.80, No.812, pp.1-16, 2014, doi: 10.1299/transjsme.2014dsm0107
12. Humann, J. Khani, N. Jin, Y. "Evolutionary Computational Synthesis of Cellular Self-Organizing Systems", in *Artificial Intelligence for Engineering Design, Analysis and Manufacturing*, Vol.28/3, pp.259-275, August 2014. doi: 10.1017/S0890060414000213
13. Jin, Y. and Chen, C. "Field Based Behavior Regulation for Self-Organization in Cellular Mechanical Systems", in *Artificial Intelligence for Engineering Design, Analysis and Manufacturing*, Vol.28/2, pp.115-128, May 2014. doi:10.1017/S0890060414000031
14. Sauder, J. and Jin, Y. "Collaborative Stimulation of Memory Retrieval in Design," in *International Journal of Design Creativity and Innovation*, Vol.2/2, pp. 63-81. 2014, doi:10.1080/21650349.2013.847533
15. Suzuki, Y. Yahyaei, M. Jin, Y., Koyama, H. Kang, G. "Simulation Based Process Design: Modeling and Applications," in *Advanced Engineering Informatics*, Vol.26/4, pp.763-781, October 2012.
16. Huang, Z. and Y. Jin, "Validation and Adjustment of Prior and Data for Bayesian Reliability Analysis in Engineering Design", *Journal of Mechanical Design – Transactions of ASME*, Vol.133 pp.051003-1 – 12, 2011.
17. Jin, Y. and Oren, B, "Creative Patterns and Stimulation in Conceptual Design", *International Journal of Artificial Intelligence for Design, Analysis, and Manufacturing (AIEDAM)*, Vol.24, pp.191-209, 2010.

18. Jin, Y. and Geslin, M. "A Study of Argumentation Based Negotiation in Collaborative Engineering Design", *International Journal of Artificial Intelligence for Design, Analysis, and Manufacturing (AIEDAM)*. Vol.24, pp.35-48, 2010
19. Huang, Z. and Jin, Y. "Extension of Stress and Strength Interference Theory for Conceptual Design-for-Reliability", *Journal of Mechanical Design – Transactions of ASME*, 131(7), pp.071001:1-11 2009.
20. Jin, Y. and M. Geslin "Argumentation Based Negotiation for Collaborative Engineering Design", *International Journal of Collaborative Engineering*, Vol. 1/1, pp.125-151, 2009
21. Tomiyama, T. P. Gu, Y. Jin, D. Lutters, C. Kind, F. Kimura, "Design Methodologies: Industrial and Educational Applications", *CIRP Annals – Manufacturing Technology*, Vol. 58/2, pp.543-565, 2009.
22. Jin, Y. G. Zouein, S. Lu, "A Synthetic DNA based Approach to Design of Adaptive Systems", *CIRP Annals – Manufacturing Technology*, Vol. 58/1, pp.153-156, 2009
23. Yang, M. and Jin. Y. "An Examination of Team Effectiveness in Distributed and Co-located Engineering Teams", *International Journal of Engineering Education*, Vol.24, No.2, pp.400-408, 2008.
24. Jin, Y. and Li, W. "Design Concept Generation: A Hierarchical Co-Evolutionary Approach", in *ASME Transactions - Journal of Mechanical Design*, Vol. 129, pp.1012-1022, October 2007
25. Jin, Y., G. Geslin, and S. C-Y. Lu, "Impact of Argumentative Negotiation on Collaborative Engineering", in *CIRP Annals – Manufacturing Technology*, Vol. 56/1, 2007.
26. Jin, Y. and Y. Ishino "DAKA: Design Activity Knowledge Acquisition through Data-Mining", in *International Journal of Production Research*, Vol.44, No.14, pp.2813-2837, July 2006
27. Ishino, Y. and Y. Jin, "Information Value Based Design Procedure Capture", *International Journal of Advanced Engineering Informatics*, Vol.20 (2006), pp.89-107.
28. Chusilp, P. and Y. Jin, "Impact of Mental Iteration on Conceptual Design Performance", *Journal of Mechanical Design – Transactions of ASME*, Vol.128, pp.14-25, 2006.
29. Jin, Y. and Chusilp, P. "Study of Mental Iteration in Different Design Situations", *Design Studies*, Vol. 27, pp.25-55, 2006
30. Jin, Y. Li, W., and Lu, S.C-Y, "A Hierarchical Co-Evolutionary Approach to Conceptual Design", in *CIRP Annals – Manufacturing Technology*, Vol.54/1, pp.155-158, 2005.
31. Horii, T., Y. Jin, and R.E. Levitt "Modeling and Analyzing Cultural Influences on Project Performance", *Computational and Mathematical Organization Theory*, Vol.10, No.4, pp.305-321, 2004.
32. Jin, Y. and S. Lu, "Agent-Based Negotiation for Collaborative Design Decision Making" *CIRP Annals*, Vol.53/1, pp.122-125, 2004.
33. Ishino, Y. and Y. Jin, "Estimate Design Intent: A Multiple Genetic Programming and Multivariate Analysis based Approach", in *Journal of Advanced Engineering Informatics*, No. 16, pp.107-125, 2002
34. Ishino, Y. and Y. Jin, "Acquiring Engineering Knowledge from Engineering Processes", in *Journal of AI in Engineering Design, Analysis and Manufacturing*, No.16, pp.73-91, 2002

35. Danesh, M. and Y. Jin, "An Agent-Based Decision Network for Concurrent Engineering", in *Journal of Concurrent Engineering Research and Application*, Vol.9, No.1, pp.37-47, 2001
36. Levitt, R.E., J. Thomsen, T.R.Christiansen, J.C. Kunz, Y. Jin, C. Nass, "Simulating Project Work Processes and Organizations: Toward a Micro-Contingency Theory of Organizational Design", in *Management Science*, pp.1479-1495, Vol.45, No.11, 1999
37. Jin, Y. and Stephen C-Y. Lu "An Agent Supported Approach to Collaborative Design", in *CIRP Annals*, Vol. 47/1, pp.107-110, 1998
38. Kunz, J.C., T.R. Christiansen, G.P. Cohen, Y. Jin, and R.E. Levitt "VDT-A Computational Simulation Model of Project Organizations", in *Communications of the Association for Computing Machinery*, Vol.41, No.11, pp.84-92. 1998.
39. Christensen, L.C., T.R. Christiansen, Y. Jin, J.C. Kunz, and R.E. Levitt, "Modeling and Simulating Coordination in Projects", in *Journal of organizational Computing and Electronic Commerce*, 1998.
40. Lee, J. M. Grunninger, Y. Jin, T. Malone, A. Tate, G. Yost, "The PIF Process Interchange Format and Framework" in *Knowledge Engineering Review*, Vol.13, No.1. pp.91-120, 1998
41. Jin, Y., and R. E. Levitt, "The Virtual Design Team: A Computational Model of Project Organizations," in *Journal of Computational and Mathematical Organization Theory*, Vol. 2, No.3, pp.171-196, 1997.
42. Christensen, L.C., T.R. Christiansen, Jin, Y., J.C. Kunz, and R.E. Levitt, "Object-Oriented Enterprise Modeling and Simulation of AEC Projects", in *Microcomputers in Civil Engineering*, Vol.12, pp.157-170, 1997.
43. Kunz, J.C., Y. Jin, R.E., Levitt, S-D Lin, and P.M. Teicholz, "The Intelligent Real-Time Maintenance Management (IRTMM) System: Support for Integrated Value-Based Maintenance Planning", *IEEE Expert: Intelligent Systems and Their Applications*, Vol.11, No.4, pp.35-44, August 1996
44. Christensen, L.C., T.R. Christiansen, Jin, Y., J.C. Kunz, and R.E. Levitt, "Modeling and Simulation in Enterprise Integration - A Framework and an Application in the Offshore Oil Industry," in *Journal of Concurrent Engineering: Research and Applications*, Vol.4, No.3, pp.229-246, 1996
45. Kunz, J.C., G.T. Luiten, M.A. Fischer, Y. Jin, and R.E. Levitt, "CE4: Concurrent Engineering of Product, Process, Facility and Organization", in *Journal of Concurrent Engineering: Research and Applications*, Vol.4, No.2, pp.187-98, 1996.
46. Jin, Y., R. E. Levitt, T. Christiansen, and J. Kunz "The Virtual Design Team: Modeling Organizational Behavior of Concurrent Design Teams," in *International Journal of Artificial Intelligence for Engineering Design, Analysis and Manufacturing*, Vol.9, No.2, pp.145-158, April 1995.
47. Jin, Y., R.E. Levitt, and T.R. Christiansen, J.C. Kunz, "The Virtual Design Team: A Computer Simulation Framework for Studying Organizational Aspects of Concurrent Design", in *Simulation*, Vol.64, No. 3, pp.160-174, March 1995.
48. Tabuchi, H. Y. Jin, "GPME: A General Product Modeling Environment", in *Techno Marine - Magazine of Society of Naval Architects of Japan*. No. 769, pp.25-40, October 1995.

49. Jin, Y. and R.E. Levitt, "i-AGENTS: Modeling Organizational Problem Solving in Multiagent Teams", in *International Journal of Intelligent Systems in Accounting, Finance and Management*, Vol.2, No.4 pp.247-270, December 1993.
50. Levitt, R.E., Y. Jin, and C. Dym, "Knowledge-Based Support for Management of Concurrent, Multidisciplinary Design", in *International Journal of Artificial Intelligence for Engineering Design, Analysis and Manufacturing*, Vol.5, No.3, pp.77-95, 1991.
51. Jin, Y., Z.J. Zhang, and W. Liu, "Distributed Problem Solving: An Overview", In *Journal of Control and Decision-Making*, Vol. 5, No.3, pp.65-72, May 1990.
52. Jin, Y. and T. Koyama, "On the Design of Marine Traffic Control System (2nd Report) – A distributed problem solving approach", in *Journal of the Society of Naval Architects of Japan*, Vol. 164, pp.240-252, December 1988.
53. Jin, Y. and T. Koyama, "On the Design of Marine Traffic Control System (1st Report)", in *Journal of the Society of Naval Architects of Japan*, Vol. 162, pp.183-192, December 1987.
54. Jin, Y. and T. Koyama, "A Systematic Study of Automatic Berthing Control (1st report)", in *Journal of the Society of Naval Architects of Japan*, Vol. 162, pp.201-210, December 1987.
55. Maeda, H. and Y. Jin, "On Motions of a Boat in the Vicinity of a Large Vessel", in *Journal of the Society of Naval Architects of Kansai*, Vol.198, pp.62-80, June 1985.

4.2 Book and Edited Works

1. Jin, Y. and S. Lu (Eds.) *Multimedia Technology for Collaborative Design and Manufacturing*, International Institute of Production Engineering (CIRP), October 1997.

4.3 Book Chapters:

1. Jin, Yan "Innovation Led by Design: Aspects of Cognition and Computing" in Li, Yongmei (Ed.) *Dialogue with Global Masters*, pp.151-163, Orient Publishing Center, Beijing, 2019, ISBN 978-7-5473-1459-3
2. Humann, J., Y. Jin and A.M. Madni "Scalability in Self-Organizing Systems: An Experimental Case Study on Foraging Systems", in Azad M. Madni, Barry Boehm, Roger G. Ghanem, Daniel Erwin, Marilee J. Wheaton (Eds.) *Disciplinary Convergence in Systems Engineering Research*, pp.543-557, Springer, 2018.
3. Nissen, M.E. and, Y. Jin. "Co-Evolution and Co-Design of Agile Organizations and Information Systems through Agent-Based Modeling", in Desouza, K.C. (Eds.) *Agile Information Systems*, pp.266-284, Butterworth-Heinemann (An imprint of Elsevier), Burlington, MA, USA, 2006.
4. Jin, Y. and, M. Danesh. "Value Aggregation for Collaborative Design Decision-Making", in Lewis, K, Chen, W. and Schmidt L. (Eds.) *Decision-Making in Engineering Design*, Chapter 24, pp.293-301, The ASME Press, New York, 2006.
5. Lee, J. Grunniger, M. Jin, Y. Malone, T., Tate, A., Yost, G. "Process Interchange Format", in Bernus, P, Mertins, K. and Schmidt, G. (Eds.) *Handbook on Architectures of Information Systems*, pp.173-195, Springer, 2005.
6. Lee, J. Grunniger, M. Jin, Y. Malone, T., Tate, A., Yost, G. "The PIF Process Interchange Format and Framework", in Malone, T, Crowston, K. and Herman G. (Eds.) *Organizing Business Knowledge*, pp.553-575, The MIT Press, Cambridge, MA.2003.

7. Ishino, Y. and Y. Jin "Data Mining for Knowledge Acquisition in Engineering Design", in *Data Mining for Design and Manufacturing: Methods and Applications*, D. Braha (Eds.), pp.145-160, Kluwer Academic Publishers, 2001.
8. Levitt, R.E., Y. Jin, G.A. Oralkan, J.C. Kunz, and, T.R. Christiansen, "Enterprise Models: Toward Analysis Tools for Designing Organizations", in *Coordination Theory and Collaboration Technilocy*, Olson, G. and Malone, T. (eds). pp.623-649, Laurence Erlbaum Associates, Publishers, 2001
9. Jin, Y. and S. Lu "Toward a Better Understanding of Engineering Design Models", in *Universal Design Theory*, H. Grabaowski, S. Rude, and G. Grein (Eds.), pp.71-86, Shaker Verlag, Aachen, Germany, 1998.
10. Levitt, R.E., G. Cohen, J. Kunz, J., C. Nass, T. Christiansen, and Y. Jin, " The Virtual Design Team: Simulating How Organization Structure and Information Processing Tools Affect Team Performance", in *Computational Organization Theory*, Carley, K. and Prietula, M. Eds., Lawrence Erlbaum Associates, Hillsdale, New Jersey, Autumn 1993, pp.1-18.

4.4 Refereed Conference Papers:

1. Ji, H. and Jin, Y. "Designing Self-Assembly Systems with Deep Multiagent Reinforcement Learning," to appear in *Proceedings of Ninth International Conference on Design Computing and Cognition (DCC2020)*. December 14-16, 2020, Atlanta, USA.
2. Milojevic, H, Y. Jin, A. Patel, P. Chastain-Howley, and NK Brown "Adapted Ethnographic Approach to Social Cognition and Cognitive Apprenticeship in Design learning Experience" *ASME 2020 International Design Engineering Technical Conferences & Computers and Information in Engineering Conference*, IDETC2020-22405, Aug. 16-19, 2020, St. Luis, MO, USA
3. Zhang, Z. and Jin, Y. "An Unsupervised Deep Learning Model to Discover Visual Similarity between Sketches for Visual Analogy Support" *ASME 2020 International Design Engineering Technical Conferences & Computers and Information in Engineering Conference*, IDETC2020-22394, Aug. 16-19, 2020, St. Luis, MO, USA
4. Ji, H. and Jin, Y. "Design Self-Organizing Systems with Deep Multiagent Reinforcement Learning", *ASME 2019 International Design Engineering Technical Conferences & Computers and Information in Engineering Conference*, IDETC2019-98268, Aug. 18-21, 2019, Anaheim, CA, USA.
5. Williams, E., Jin, Y., Low Earth Orbit Debris Avoidance Using Situation-Risk Assessment Modeling, in *Proceedings of AIAA/SPACE Forum 2018*, September 17-19, 2018, at the Hyatt Regency Orlando, Orlando, Florida
6. Ji, H. and Jin, Y. "Modeling Trust in Self-Organizing Systems with Heterogeneity", *ASME 2018 International Design Engineering Technical Conferences & Computers and Information in Engineering Conference*, IDETC2018-86006, Aug. 26-29, 2018, Quebec City, Quebec, Canada.
7. Liu, X. and Jin, Y. "Design of transfer reinforcement learning under low task similarity", *ASME 2018 International Design Engineering Technical Conferences & Computers and Information in Engineering Conference*, IDETC2018-86013, Aug. 26-29, 2018, Quebec City, Quebec, Canada.
8. Liu X. and Jin, Y. "Design of Transfer Reinforcement Learning Mechanisms for Autonomous Collision Avoidance", in *Proceedings of Design Computing and Cognition DCC'18*, July 2-4, 2018, Milan, Italy.

9. Milogevic, H. and Jin, Y. "Building a Social-Cognitive Framework for Design: Personality and Design Self-Efficacy Effects on Pro-Design Behaviors", in *Proceedings of Design Computing and Cognition DCC'18*, July 2-4, 2018, Milan, Italy.
10. Williams, Edwin, Jin, Yan, Use of Situation and Risk Modeling in Guidance Solutions, in *Proceedings of IEEE/ION PLANS 2018 Conference*, April 23-26, 2018, at the Hyatt Regency Monterey, Monterey, California
11. Humman, J., Jin, Y., Madni, A. "Scalability in self-organizing systems: an experimental case study on foraging systems", *15th Annual Conference on Systems Engineering Research Disciplinary Convergence: Implications for Systems Engineering Research*, March. 23-25, 2017, Redondo Beach, California, USA.
12. Milogevic, H., Girardello, A., Zhang, Z., Jin, Y. Influence of Thinking Style on Design Creativity. Submitted to *The 4th International Conference on Design Creativity (ICDC2016)*. 2016
13. Humman, J., Khani, N. Jin, Y. "Adaptability Trade-offs in the Design of Self-Organizing Systems", *ASME 2016 International Design Engineering Technical Conferences & Computers and Information in Engineering Conference*, IDETC2016-60053, Aug. 21-24, 2016, Charlotte, North Carolina, USA.
14. Lu, D, and Jin, Y. "A Self-Organizing Map Based Approach to Adaptive System Formation", in *Proceedings of Design Computing and Cognition DCC'16*, June 27-29, 2016, Evanston (Chicago), USA.
15. Milogevic, H., Jin, Y. "Influence of Mindset on Design Performance", In *Proceedings of Design Creativity Workshop 2016*, Evanston (Chicago), USA, June 26, 2016.
16. Moore, D., Sauder, J. and Jin, Y. "Exploring Dual-Processes of Iteration in Conceptual Design", *Eighth Mudd Design Workshop*, May. 28-30, 2015, Claremont, CA, USA.
17. Moore, D., Sauder, J. and Jin, Y. "A Dual Process Analysis of Design Idea Generation", *ASME 2014 International Design Engineering Technical Conferences & Computers and Information in Engineering Conference*, DETC2014-34657, Aug. 17-20, 2014, Buffalo, New York, USA.
18. Moore, D., Ristock, G., Jin, Y. "Enhancing Design Creativity with Intuitive Thinking", In *Proceedings of 2014 Design Creativity Workshop*, London, United Kingdom, June 22, 2014.
19. Humann, J. and Jin, Y. "Toward a Design Ontology for Self-Organizing Systems", submitted to *ASME 2014 International Design Engineering Technical Conferences & Computers and Information in Engineering Conference*, DETC2014-34659, Aug. 17-20, 2014, Buffalo, New York, USA.
20. Khani, N. and Jin, Y. "Dynamic Structuring in Cellular Self-Organizing Systems", in *Proceedings of Design Cognition and Computing'14*, June 23-25, 2014, London, UK.
21. Sauder, J. Lian E., and Jin, Y. "The Effect of Collaborative Stimulation on Design Novelty" in *Proceedings of the ASME 2013 International Design Engineering Technical Conferences & Computers and Information in Engineering Conference*, DETC2013-12289, Aug. 4-7, 2013, Portland, Oregon, USA.
22. Humann, J. and Jin, Y. "Evolutionary Design of Cellular Self-Organizing Systems" in *Proceedings of the ASME 2013 International Design Engineering Technical Conferences & Computers and Information in Engineering Conference*, DETC2013-12485, Aug. 4-7, 2013, Portland, Oregon, USA.

23. Sauder, J. and Jin, Y. "Training the Participatory Renaissance Man" in *Proceedings of the ASME 2013 International Design Engineering Technical Conferences & Computers and Information in Engineering Conference*, DETC2013-12288, Aug. 4-7, 2013, Portland, Oregon, USA.
24. Chiang, W., and Jin, Y. "Design of Cellular Self-Organizing Systems" in *Proceedings of the ASME 2012 International Design Engineering Technical Conferences & Computers and Information in Engineering Conference*, DETC2012-71216, November Aug. 12-15, 2012, Chicago, Illinois, USA.
25. Jin, Y. and Chen, C., "Field Based Behavior Regulation for Self-Organization in Cellular Mechanical Systems", in *Proceedings of Fifth International Conference on Design Cognition and computing*, DCC'12, June 7-9, 2012, College Station, Texas, USA.
26. Sauder, J., & Jin, Y. (2012). Collaborative Stimulation of Memory Retrieval in Creative Design. In *Proceedings of the 2nd International Conference on Design Creativity (ICDC2012)*, Vol. 1 (pp. 169-178).
27. Sauder, J., Lian, E., Wang, B., Jin (2012). "Collaborative Stimulation in Design: A Retrospective Protocol Analysis Approach", In *Proceedings of 2012 Design Creativity Workshop*, College Station, Texas, June 6, 2012.
28. Sauder, J. and Jin, Y., "Creative Stimulation in Collaborative Design", in *Posters of Fifth International Conference on Design Cognition and computing*, DCC'12, June 7-9, 2012, College Station, Texas, USA.
29. Chen, C. and Jin, Y., "A Behavior Based Approach to Cellular Self-Organizing Systems Design" in *Proceedings of the ASME 2011 International Design Engineering Technical Conferences & Computers and Information in Engineering Conference*, DETC2011-48833, November August 29-31, 2011, Washington, DC, USA.
30. Chiang, W., and Jin, Y. "Toward a Meta-Model of Behavioral Interaction for Designing Complex Adaptive Systems" in *Proceedings of the ASME 2011 International Design Engineering Technical Conferences & Computers and Information in Engineering Conference*, DETC2011-48821, November August 29-31, 2011, Washington, DC, USA.
31. Zouein, G., Chen, C. Jin, Y., "Create Adaptive System Designs through 'DNA' Guided Cellular Formation" submitted to *First International Conference on Design Creativity*, November 30 - December 2nd, 2010, Kobe, Japan.
32. Suzuki, Y., Jin, Y., Koyama, H., Kang, G. "An Application of Simulation Based Process Design", *Proceedings of 17th ISPE International Conference on Concurrent Engineering*, September 8-12, 2010, Krakow, Poland.
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4.5 Technical Reports:

1. Lee, J, M. Grunninger, Y. Jin, T. Malone, A. Tate, and G. Yost, "The PIF Process Interchange Format and Framework Version 1.1", MIT Center for Coordination Science, Working Paper #194, 1996.
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3. Kunz, J.C., Jin, Y., Levitt, R.E., Lin, S.D., Teicholz, P. "The Intelligent Real-Time Maintenance Management (IRTMM) System: Support for Integrated Value-Based Maintenance Planning" *CIFE Technical Report* No.100, January 1995.
4. Levitt, R.E., Jin, Y., Oralkan, G.A., Kunz, J.C. and, Christiansen R.T., "Enterprise Models: Toward Analysis Tools for Designing Organizations", *CIFE Working Paper* No. 36 Stanford University, March 1994.
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6. Jin, Y. and Levitt R.E., "Modeling Organizational Problem Solving in Multiagent Teams", *CIFE Working Paper* No. 27, Stanford University, February 1994.
7. Oralkan, G., Jin, Y., and Levitt R.E., "Modeling Organizational Change in Response to Information Technology", *CIFE Working Paper* No. 26, Stanford University, February 1994.
8. Jin, Y., Levitt, R.E., and Christiansen T., "A Computer Simulation Framework for Studying Organizational Aspects of Concurrent Design", *CIFE Working Paper* No.24, Stanford University, November 1993.
9. Jin, Y. "Cooperative Distributed Manufacturing Management and Control System", *Technical Report at Laboratory of Design for Naval Engineering*, No.102, The University Of Tokyo, May 1990.

4.6 Other Scholarly Publications:

1. Horii, T., Y. Jin, and R.E. Levitt "Modeling and Analyzing Cultural Influences on Project Performance through Virtual Experiments", in *Proceedings of 2004 Conference of North American Association for Computational Social and Organization Science (NAACSOS)*, Pittsburgh, Pennsylvania, June 27-29, 2004.
2. Kawazoe, K., A. Fujita, and Y. Jin "GPME An Information Modeling and System Integration Environment for Shipbuilding", in *Proceedings of ICCAS'97*, October 1997
3. Lu, Stephen and Y. Jin, "Engineering as Collaborative Negotiation", *Workshop Notes, Engineering Design Workshop*, May 2-3, 1997, Harvey Mudd College, Claremont, California.
4. Christensen, L.C., Christiansen, T.R., Jin, Y., Kunz, J. & Levitt, R.E."A life cycle model of hydraulic systems- extending the CAESAR framework beyond engineering " in *Proceedings of CIB W78 workshop*, Stanford, California, August 1995

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6. Christensen, L. Christiansen, T., Jin, Y., Kunz, J., Levitt, R.E., "Modeling Work Processes of an Enterprise as Projects: Issues, Risks, and Rewards", INFORMS Conference 95, Los Angeles, CA, April 1995.
7. Jin, Y. and Levitt, R.E., "Model-Based and Interactive Planning Approach to Predictive Maintenance Management," in *Proceedings of Fifth International Conference on Computing in Civil and Building Engineering - V-ICCCBE*, pp. 1830-1837, June 1993.
8. Jin, Y. "Object Oriented Technology at Stanford", in *SIGMA Forum*, No. 4, Sigma System Inc., July 1993.
9. Jin, Y. "An Architecture for 3-D CAD Platform", *Technical Report of Mitsui Zosen System Research Inc.*, Dec. 1992.
10. Jin, Y. "New Application Interface Based On Object-Oriented Technology", *Research Report of Mitsui Zosen System Research Inc.*, Dec. 1990.
11. Jin, Y. and Z.J. Zhang, "Representing Manufacturing Job Shops", In *Proceedings of 2nd International Conference on Human Aspects of Advanced Manufacturing and Hybrid Automation*, Hawaii, USA, August 1990.
12. Jin, Y., T. Koyama, and H. Yamato, "A Job Shop Model for CIMS", .In *Proceedings of the 1st Smalltalk-80 Symposium*, pp. 74-82, Tokyo, Japan, June 1990.
13. Jin, Yan and Zhong Jun Zhang, "A Distributed Problem-Solving Approach to Conflict Resolution", In *Proceedings of 2nd National Machine Learning Symposium*, Guilin, China, August 1989.
14. Jin, Y., and Y. Iijima, "On Control of an Automatic Pilot Platform", In *Proceedings of 33th Conference of Tokyo Marine University*, Tokyo, Japan, January 1985.

5. INVITED TALKS AND LECTURES

1. Donghua University, College of Mechanical Engineering, *Innovative Product Design*, July 6, 2020, Shanghai, China
2. Peiking University, Beijing Institute of Collaborative Innovation, *TRIZ (Theory of Inventive Problem Solving) and Its Applications*, December 5, 2020.
3. UNIX-NCT Co. Ltd., *Data-Driven Applications and Artificial Intelligence*, July 8, 2019, Tokyo, Japan.
4. Peking University, School of Engineering, *Development of Smart Systems and Applications*, May 24, 2019, Beijing, China.
5. Donghua University, School of Mechanical Engineering, *Artificial Intelligence: Development and Applications*. May 15, 2019, Shanghai, China.
6. Beijing Institute of Collaborative Innovation (BICI), *Design Thinking and Product Innovation*, October 29, 2018, Beijing, China
7. Chongqing Xiantao Big Data Institute, *Toward Intelligent Enterprises: Background, Present and Future Directions*, October 26, 2018, Chongqing, China

8. National Maritime Research Institute, *Artificial Intelligence and Its Applications in Collision Avoidance*, October 19, 2018, Tokyo, Japan
9. Beijing Institute of Collaborative Innovation (BICI), *LRP: Learning Combined with Research and Production*, August 10, 2018, Beijing, China
10. China Enterprise Confederation, *AI and Machine Learning – Development and Applications*, April 15, 2018, Shenzhen, China
11. Peking University, College of Engineering, *Creative Design & Innovation – Cognition and Computing*, June 2, 2017, Beijing, China
12. FutureLearn Forum, *Integration of Online learning and Classroom Learning*, July 25, 2016, Shanghai, China (FutureLearn Shanghai Branch)
13. Communication University of China, *Creativity and Design*, May 28, 2016, Beijing, China
14. Second Internet + Education Summit, *Lessons Learned from Online+Onsite Learning*, May 27, 2016, Shanghai
15. Gordon Conference on Frontiers of Engineering Design, *Creative Design and Innovation*, May 5, 2016, Hunan University, Chang Sha, China
16. CHEA/CIQG Annual Conference, *Become CHEA/CIQG Quality Platform Provider*, January 28, 2016, Washington DC, USA.
17. Internet + Education Summit at DeTao Masters Academy, *Online+Onsite Learning*, November 20, 2015
18. Global Youth Pioneers (Shanghai Camp), *Circular Economy and Design*, Shanghai, China, June 19, 2015
19. Shanghai Jiao Tong University, *Innovation and Creative Design*, Shanghai, China, June 5, 2015.
20. China Industrial Design Association, Leading Talents Program, *Modern Manufacturing and Innovative Design*, Shenyang, China, May 30th, 2015
21. Dalian University of Technology, School of Mechanical Engineering. *Research on Engineering Design*, Dalian, China, May 28th, 2015
22. Tsinghua University, Departments of Automation and Online Education, *An Introduction to O+O Engineering Education Program*, Beijing, China, May 27th, 2015.
23. DeTao Masters Academy, *An Online-To-Onsite Approach to Engineering Design Education*, Shanghai Songjiang, China, December 18, 2014.
24. Nanjing Tech University, School of Mechanical and Power Engineering, *Complex Systems Engineering – A Self-Organizing Approach*, Nanjing, China, December 15, 2014.
25. Peking University Shenzhen Graduate School, *Creative Thinking and Design*, Shenzhen, China, June 9, 2014.
26. The Oriental No.1 Creative Park, *The Trend of Engineering Design and Management*, Dafeng City, Jiangsu Province, China, July 29, 2014.
27. XCMG (Xuzhou Construction Machinery Group), *Design Theory and Methods for Product Development*, Xuzhou, China, December 17, 2013.

28. Peking University, School of Engineering, *Design and Creativity: Cognition, Collaboration and Self-Organization*, Beijing, China, October 25, 2013
29. Jilin University, Dept. of Industrial Engineering, *Design Theory and Methods*, Changchun, China, October 23, 2013.
30. Commercial Aircraft Corporation of China, Ltd. (COMAC), *Systematic Approach to Design & Configuration Management*, Shanghai, China, March 19, 2013.
31. Shanghai Jiaotong University, Institute of Modern Design, *Research on Design Theory and Methodology*, Shanghai, China, March 18, 2013
32. Beijing DeTao Masters Academy, *Education through Apprenticeship and Heritage*, Beijing, China, July 5, 2012.
33. Sixth Conference of the International Advisory Group, Shanghai Institute of Visual Arts, Fudan University, *Design Creativity Research and Education*, Shanghai, China, September 3, 2011.
34. Graduate School of System Design and Management, Keio University, *Enterprise Modeling and Process Management Technologies*, Yokohama, Japan, July 5, 2011.
35. CPS for Shipbuilding Workshop hosted by School of Mechanical Engineering, Shanghai Jiao Tong University, *Cyberphysical Systems Infrastructure for Shipbuilding Process Integration*, Shanghai, China, March 16, 2011.
36. School of Mechanical Engineering, Shanghai Jiao Tong University, *A Cellular Self-Organizing Approach to Developing Complex Adaptive Systems*, Shanghai, China, March 16, 2011.
37. Ritsumeikan University, Dept. of Management of Technologies, *Interaction Science and Multiagent Systems*, Biwako, Japan, June 25, 2010
38. Nippon Yusen Kaisha – NYK Line, *A Computational Approach to Enterprise Management*, Kobe, Japan, June 24, 2010
39. Ritsumeikan University, Dept. of Management of Technologies, Tokyo Campus, *Enterprise Organization and Process Management*, Tokyo, Japan, June 23, 2010
40. Tokyo Institute of Technology, Dept. of Computational Intelligence and Systems Science, *Multiagent Systems: For Studies of Systems, Organizations and Enterprises*, Tokyo, Japan, June 22, 2010
41. SIG-RS of Japan Association for Management Systems, *Business Innovation and Management: A Computational and Technology based Approach*, Osaka, Japan, July 16, 2009
42. SIG-KST of Japan Society for Artificial Intelligence, *Interaction Science & Collaboration Engineering: From Engineering Design to Enterprise Management*, Kawasaki, Japan, July 13th, 2009,
43. Seoul National University, Dept. of Industrial Engineering, *A Hierarchical Evolutionary Approach to Conceptual Design*, Seoul, Korea, September 3rd, 2008.
44. Creative Design Institute, Sungkyunkwan University, *Creative Patterns and Stimulation in Design*, Sanwon, Korea, September 2nd, 2008.
45. Korean Institute of Science and Technology (KIST), *PMT: Modeling and Simulating Enterprise Organizations and Operations*, Seoul, Korea, September 1st, 2008

46. Japan Marine Science, *Process Modeling: Simulation Based Enterprise Management*, Kawasaki, Japan; December 16th, 2007.
47. ICCR (International Consortium for Complexity Research) Forum, *Modeling Complexity for Systems Engineering*, Kananaskis, Canada, July 19th, 2006.
48. Raytheon Company, Center of Strategic Systems, *Modeling and Managing Complexity for Space Systems Engineering*, El Segundo, California, March 20th, 2006.
49. Toyota Motor Corporation, *Intelligent Synthesis for Vehicle Engineering*, Toyota, Japan, March 17th, 2006.
50. Japan Marine Science, *Modeling and Managing Collaboration processes*, Kawasaki, Japan, March 14th, 2006.
51. University of California, Riverside, Department of Mechanical Engineering, *Intelligent Synthesis and Collaboration for Engineering Design*, February 24th, 2006.
52. CIRP Design Sub-Technical Committee Meeting, *Design Co-Construction: Process and Context*, Antalya, Turkey, August 25, 2005.
53. Japan National Institute of Advanced Industrial Science and Technology (AIST), *Knowledge Sharing and Collaborative Engineering*, May 16, 2005.
54. Tsinghua University, *Advanced Design and Collaboration: Theory and Methodology*, Beijing, China, July 20th, 2005.
55. CIRP ECN Working Group Meeting, *Context Based and Argumentative Negotiation for Design*. Shanghai, China, May 25, 2005.
56. CIRP ECN Working Group Meeting, *Argumentation Based Engineering Negotiation*. Krawko, Poland, August 26, 2004.
57. Peking University, Guanghai School of Management, *Intelligent Collaborative Work and Project Management – An Agent Based and Organizational Approach*, Beijing, China, July 1, 2004.
58. Tsinghua University, CIMS Research Center, *Intelligent Design and Collaboration in Engineering*, Beijing, China, July 1st, 2004.
59. Carnegie Mellon University, Department of Mechanical Engineering, *Intelligent Synthesis and Collaboration*, May 17th, 2004.
60. University of Illinois, Urbana-Champaign, Department of General Engineering, *Hierarchical and Co-Evolutionary Approach to Engineering Design*. May 18th, 2004.
61. International Conference on Axiomatic Design, *An Analytical Approach to Functional Design*, MIT, June 17th, 2002.
62. National Space Development Agency of Japan, *Engineering Knowledge Management – An Agent Based Approach*, Tokyo, Japan, July 26th, 2001,
63. NSF Workshop on Decision-Based Design, *Toward a Decision Theory for Collaborative Design*, Baltimore, Maryland, September 10, 2000
64. CIRP Design STC Meeting, *Modeling Engineering Dependencies to Support Collaboration*, Sydney, Australia, August 18, 2000.

65. Toyota Software Engineering Inc, *Agent Based Knowledge Management*, Nagoya, Japan, August 9, 2000
66. NSF Workshop on Decision-Based Design, *Modeling Engineering Design*, Long Beach, California, January 5, 1999
67. Ford Research Laboratory, *Using Intelligent Agents to Support Collaborative Engineering*, Detroit, Michigan, April 29th, 1999,
68. Mitsubishi Heavy Industry Corp., *Knowledge Infrastructure for Collaborative Engineering*, Nagasaki, Japan, December 16th, 1999.
69. International Workshop on Universal Design Theory, *Engineering Design Modeling*, Karlsruhe, Germany, May 21, 1998.
70. CIRP 1998 International Design Seminar, *Toward a Better Understanding of Engineering Models*, Berlin, Germany, May 23, 1998
71. Collaborative Engineering Office (CEO) Initiative Annual Conference, *Active Collaborative Engineering Environment* (Keynote speech), Tokyo, Japan, May 28th, 1997.
72. NSF Design Based Design Workshop, *A Decision Based Design Process Model*, Orlando, Florida, April 5-6, 1997,
73. Computational and Mathematical Organizational Theory Workshop, *Modeling Coordination Among Organizational Agents*, San Diego, California, May 3rd, 1997.
74. Japan CIMS (Computer Integrated Manufacturing for Shipbuilding) Annual Conference, *Development of Information Technology for Future Enterprises* (Keynote Speech), Tokyo, Japan, June 7th, 1996.
75. Collaborative Engineering Office (CEO) Consortium, *From Collaborative Engineering to Virtual Corporation*, Tokyo, Japan. June 1996.
76. Stanford University, Center for Integrated Facility Engineering (CIFE) Summer Program, *ASCAD – Agent Supported Collaborative Design*. July 30, 1995.
77. General Product Modeling Workshop, Ship & Ocean Foundation, *Information Technologies for Integrated Product Development*, Tokyo, Japan, August 1994.
78. Santa Fe Institute, *Organization Modeling and the Virtual Design Team*, Santa Fe, New Mexico, October 1994.
79. Chalmers University of Technology, School of Management of Technology and Economics, *A Computational Approach to Organization Design*, Gotenberg, Sweden, April, 1994.
80. MIT, Department of Civil and Environmental Engineering, *Project Planning and Enterprise Re-engineering*, Cambridge, MA, March 1994
81. Det Norske Veritas Research, *Intelligent Agents for Collaborative Design* Oslo, Norway, April, 1994.
82. Carnegie Mellon University, Department of Social and Decision Science, *Organizational Agents*, October 1992.
83. Toyota Motor Corporation, *Object-Oriented Technology and Computer Aided Design (CAD)*, November 22, 1990.

84. OPS83 User's Group Conference, *An Expert System for Collision Avoidance* Tokyo, September 1988

6. **PATENTS**

1. Jin, Y., Kunz, J., Levitt, R., Ramsey, M., Rivero, C. and Thaeler, C. "Project Management System and Method 2," U.S. Patent Number: 8099312, Issue Date: January 17th, 2012.
2. Jin, Y., Y. Fukuo, M. Kawase, Y. Suzuki, "Process Management Support System and Simulation Method," U.S. Patent Number: 8086467, Issue Date: December 27th, 2011. Japan Patent Number: 4439580, Issue Date: January 15, 2010.
3. Jin, Y., Kunz, J., Levitt, R., Ramsey, M., Rivero, C. and Thaeler, C. "Project Management System and Method," U.S. Patent Number: 7483841, Issue Date: January 27th, 2009.

7. **RESEARCH GRANTS AND CONTRACTS**

7.1 **Current Funded Research Grants and Contracts**

1. Autonomous Ship Consortium (MTI Co., JMU, BEMAC, Tokyo Keiki, ClassNK, NMRI), AutoShip: Building a Technological Basis for Autonomous Ships, \$565,000, November 1, 2019 – October 30, 2023, Principal Investigator

7.2 **Pending Research Grants and Contracts**

1. National Science Foundation (NSF): Toward a Machine Learning Based Approach to Design by Visual Analogy, 2021/06-2024/05, Principal Investigator, in preparation,
2. National Science Foundation (NSF): Self-Organizing Intelligent Agents as Creative Machines, 2021/9/1—2024/8/31. Principal Investigator, in preparation.

7.3 **Past Funded Research Grants and Contracts**

1. Monohakobi Technology Institute (MTI), An Artificial Intelligence Based Approach to Situation Awareness and Collision Avoidance at Sea, June 1, 2016 - May 31, 2019. Principal Investigator
2. Uni-X Corporation, Machine Learning based Document Processing and Custom Clearance Support (CCS) System. June 1, 2018 - Dec 31, 2020. Principal Investigator.
3. National Science Foundation (NSF): A Unified Cellular Self-Organizing Approach to Design Automation and Operation of Complex Systems, 2012/06-2015/05, Principal Investigator
4. National Science Foundation (NSF): A Framework for Modeling and Measuring Collaborative Creativity in Early-Stage Engineering Design Teams, 2011/9/1—2014/8/31. Principal Investigator.
5. Japan Patent Office, Collaborative Engineering and Nuclear Apparatus, October 1, 2010 - September 30, 2011. Principal Investigator.
6. National Science Foundation (NSF): A DNA Based, Cellular and Self-Organizing Approach to Adaptive System Development, 2009/9/1—2011/8/30. Principal Investigator.
7. National Science Foundation (NSF): Second International Workshop on Design Creativity, 2008/7/1—2010/12/31. Principal Investigator.

8. Japan Marine Science (JMS), Collaboration Process Modeling and Management, 2007/09-2011/08, Principal Investigator.
9. DoD/NPS (Dept of Defense), Structure, Entropy and Self-Organizing: Toward a Theory of Edge Organizations, 2008/9/28 – 2009/8/27, Principal Investigator.
10. NASA/JPL, Decision-Based Engineering Structure for Space Mission System Design, 2005/5 – 2005/10, Principal Investigator
11. Toyota Motor Corporation, Toward Innovative Engineering Technologies, 2003/7 – 2005/6, Principal Investigator.
12. Toyota Motor Corporation, AEKM: Agent-based Engineering Knowledge Management, 2000/7 – 2002/12, Principal Investigator
13. Ford Motor Company, ASIC: Agent-based System Integration and Collaboration Support 1999/6-2001/12, Principal Investigator
14. Toyota Motor Corporation, Capturing, Storing and Utilizing Design Know-How to Support Automotive Design, 1999/1-1999/12, Principal Investigator
15. Ford Motor Company, Agent-Based System for Collaborative Engineering, 1999/1 – 1999/10, Principal Investigator
16. Ford Motor Company, Matching Fund for NSF CAREER Award, 1998/9-2000/8, Principal Investigator
17. NSF, CAREER: Building Knowledge Infrastructure for Collaborative Design, 1998/4- 2002/3, Principal Investigator (NSF CAREER Award)
18. US DoD/Transcom, A Computer Integrated Environment for High Speed Sealift Vessel Development, 1998/6-1998/12, Co-Principal Investigator (with Dr. P. Iannou)
19. Mitsubishi Research Institute, A Process-Driven and Agent-Supported Approach to Collaborative Engineering, 1998/6 – 2001/5, Principal Investigator
20. Ford Motor Company, Dynamic Process Management for Collaborative Design, 1998/1 – 1998/12, Principal Investigator
21. Toyota Caelum Inc., Intelligent Work Support for Collaborative Engineering, 1997/2 – 1998/12, Principal Investigator
22. NSF, Toward a Better Understanding of Engineering Models, 1997/9 – 1999/8, Principal Investigator
23. Toyota Motor Corp., Collaborative Inner Panel Design, 1997/6-8, Principal Investigator
24. Philips Corp., Virtual Learning Environment for Collaborative Learning, 1997/1 – 1997/12, Co-Principal Investigator (with Dr. G. Shiflett)
25. Japan Ship & Ocean Foundation, Engineering Design and Collaboration Workshop, 1996/11, Principal Investigator
26. Toyota Motor Corporation, Agent Supported Approach to Collaborative Automotive Design, 1996/9 – 1997/12, Principal Investigator (moved from Stanford to USC)

7.4 Past Funded Research Grants and Contracts before Joining USC

1. Toyota Motor Corporation, Agent Supported Approach to Collaborative Automotive Design, 1993/10 – 1996/8, Principal Investigator (Stanford University)
2. NSF, Product, Process and Organization Prototyping for Concurrent Engineering, 1995/3 – 1996/9, Team Leader (Stanford University)
3. NSF, Computational Enterprise Modeling: Tools to Enhance Quality in Organizations, 1995/1 – 1996/9, Team Leader (Stanford University)
4. Stanford CIFE, Modeling Impact of Collaboration Technology on Organizational Change and Performance, 1994/9 – 1995/8, Project Leader (Stanford University)

8. TEACHING ACTIVITIES

8.1 Current Ph.D. Students (As Principal/Chair Supervisor)

1. Hao Ji, *Designing Self-Organizing Systems with Multi-agent Deep Reinforcement Learning* Passed screening on 1/2017, qualifying exam on 5/2020; Defense: 4/2021
2. Edwin Williams, *Risk Modeling and Collision Avoidance at Sea*, Screening passed: 1/2018, qualifying exam: 5/2021; Defense 5/2022
3. Zijian Zhang, *Computer Aided Visual Analogy Support through Deep Learning*, Screening taken: 1/2019, Qualifying exam: 7/2021; defense 5/2022
4. Bingling Huang, *Multiagent reinforcement learning for robotic collision avoidance*, Screening passed: 1/2020, Qualifying exam: 9/2021; defense 3/2023
5. Yunjian Qiu, *Design Augmentation through Text Understanding*, Screening passed: 1/2020, Qualifying exam: 9/2021; defense 3/2023
6. Chuanhui Hu, *A ROS Based Framework for Autonomous Ship*, Screening passed on 1/2021, Qualifying 9/2022; Defense: 12/2023

8.2 Graduated Ph.D. Students (As Principal/Chair Supervisor)

1. Hristina Milojevic, *A Social Cognitive Approach to Modeling Design Thinking Styles*, December 2020.
2. Xiongqing Liu, *Transfer Reinforcement Learning for Autonomous Collision Avoidance*, August 2019 (currently at Tencent Corporation, Research Fellow)
3. James Humann, *Behavioral Modeling and Computational Synthesis in the Design of Self-Organizing Systems*. Passed defense on 8/28/2015 Graduated November 2015. (Currently Army Research Lab)
4. Newsha Khani, *Dynamic Social Structuring in Cellular Self-Organizing Systems*. Passed defense on 11/25/2014 Graduated November 2014 (Currently ??)
5. Jonathan Sauder, *Collaborative Stimulation in Team Design Thinking*; Defense passed on: 9/20/2013. Completed in November 2013. (Currently: Sr. Res. Engineer at JPL).
6. Winston Chiang, *Completed in May 2012, A Meta-Interaction Model for Designing Cellular Self-Organizing Systems*. (Currently: Sr. Engineer, Innoventures Group)

7. Chang Chen, *Completed in February 2012*, Building Cellular Self-Organizing Systems - A Behavior Regulation Based Approach (Currently Sr. Engineer at Bloomberg)
8. Zhaofeng Huang, *completed in October 2010*, Design for Reliability of Complex Systems – Starting from Conceptual Design. (Currently: Technical Fellow at Pratt & Whitney Rocketdyne, Inc.).
9. Majid Yahyaei, *Degree granted in 2010*, Modeling Enterprise Operations and Organizations for Productivity Improvement.
10. George Zouein, *Degree granted in 2009*. A Biologically Inspired DNA-Based Cellular Approach to Developing Complex Adaptive Systems. (Currently Honda R&D Americas)
11. Mathieu Geslin, *completed in Spring 2006*, Argumentation-Based Negotiation for Collaborative Design (currently Senior Researcher at Honda R&D Americas Inc., Torrance, California)
12. Wei Li, *completed in Spring 2006*, A Hierarchical Evolutionary Approach to Conceptual Design (currently A Senior Research Engineering in San Diego)
13. Pawat Chusilp, *completed in Fall 2004*, Cognitive Modeling of Iterations in Conceptual Design (currently Senior Engineer at AeroViroment Inc., Monrovia, California)
14. Li Zhao, *completed in Fall 2002*, A Work Structure Based Approach to Collaborative Engineering Design (currently Senior Research Scientist, Dept of Industrial Engineering, Associate Director, Zhejiang Advanced Manufacturing Institute, Hong Kong University of Science and Technology, Hong Kong)
15. Kai-Lu. Wang, *completed in Summer 2002*, An Analytical Approach to Functional Design (currently Independent Consultant in Taiwan)
16. Oren Benami, *completed in Spring 2002*, A Cognitive Approach to Creative Conceptual Design (Currently Senior Research Engineer, Advanced Research Laboratory, Raytheon Company, El Segundo, California)
17. Mohammad. R. Danesh, *completed in Fall 2001*, A Framework for Value-Based Conceptual Engineering Design (currently Senior Engineer, Schaeffer Automated Simulation Inc., Altadena, California)

8.3 Post-Doctoral & Other Research Staff Members

1. Jacky Cheng, Doctoral Visiting Research Scholar, September 2007 – August 2008, Organizational Learning in Project Teams, 4th Year doctoral student from Cheng Kong University, Taiwan.
2. Yoko Ishino, Post Doctoral Research Associate, 1999–2002, Currently Professor at Yamaguchi University, Japan.
3. Rajaram Ganeshan, Post Doctoral Research Associate, 1996–1998, Research topic: Intelligent agent based systems (partially supported).

8.4 Other Ph.D. Advisees (As Committee Member)

1. Hang Shi (Spring 5/30/2013), Optimal Design, Nonlinear Analysis and Shape Control of Deployable Mesh Reflectors.
2. Hung-Fu Chang (Spring, 5/4/2013), A Synthesis Approach to Manage Complexity in Software Systems Design (Computer Science).
3. Inna Abramova (Spring, 3/4/2013),

4. Ang Liu (Fall, 10/18/2012), A Synthesis Reasoning Framework for Early Stage Engineering Design.
5. Jing Nan, Qualified (fall 2007), Completed May 2009, Collaboration in Software Engineering (Computer Science)
6. Greg Placencia, Qualified (Spring 2007), Haptic Modeling (Industrial Systems Engineering)
7. Wei-Chung Chen, Qualified (Spring 2006), Geometrically Nonlinear Analysis of Materials with a Periodic Micro-structure (Civil Engineering)
8. Louis Atchison, Graduated (fall 2009), A Low Cost Approach to Space Weather Data Collection (Astronautics Engineering)
9. Haifeng Ji, Graduated in Summer 2008, Design process modeling (Industrial Systems Engineering)
10. Ken Susanto, Graduated in Fall 2006, Design, Modeling and Analysis of Piezoelectric Forceps Actuator (Mechanical Engineering, University of Southern California)
11. Jennifer Kanaar, Graduated Fall 2005, Effects of Group Financial Incentives & Individual Evaluation on Value, Self-Efficacy, Collective-Efficacy, Group Persistence and Performance (Educational Psychology Major, School of Education)
12. Bijan Khosraviani, Graduated Summer 2005, Evolutionary Approach to Organization Design (Civil & Environmental Engineering, Stanford University)
13. Tamaki Horii, Graduated Summer 2005, Modeling Cultural Effect on Project Performances (Civil and Environmental Engineering, Stanford University)
14. Joel Rademacher, Graduated Fall 2004, Parameter Space Discretization and Exploration for Conceptual Design of Mars In-Situ Instruments
15. Ranjit Nair, Summer 2004, Role Allocation and Reallocation in Multi-agent Teams (Computer Science)
16. Jay Modi, Graduated Fall 2003, An Asynchronous Complete Method for Distributed Constraint Optimization (Computer Science)
17. Jian Cai, Graduated Spring 2002, A Socio-technical Approach to Support Collaborative Engineering
18. Gaya Oralkan, Graduated Fall 1996, Organization change in response to information technologies (Civil and Environmental Engineering, Stanford University)
19. Tore Christiansen, Graduated Fall 1993, Efficiency and Effectiveness of Coordination in Engineering Design Teams (Civil and Environmental Engineering, Stanford University)

8.5 M.Sc. Advisees (As Principal Advisor)

1. Yuan Fang, 2016-2017, Autonomous and learning robots
2. Angelica Girardello, 2016-17, Design thinking style
3. Varun Taylor, 2015, Airplane design and development processes
4. Yue Zhou, 2014, Dynamical structuring of self-organizing systems
5. Likaiqing Huang, 2013, Research on Self-organizing systems.
6. Kai Ning, 2007, Research on Process Modeling Technologies.

7. Nishant Dikshit, Spring 2004, A Survey of Negotiation and its Application in Collaborative Engineering
8. Yoichiro Suzuki, Fall 2003, Representing Design Know-How based on Object-Process Methodology
9. Weihua Zhou, Spring 2001, Intelligent Agent Based Design Knowledge Capture
10. Oren Benami, Spring 2001, An Documentation based Approach to Conceptual Design
11. Arun Raghunath Spring 2000, Developing Intelligent Agents to Support Engineering Design
12. Peng Li, Spring 1998, Agent-based automotive design
13. Xiaochun Li, Spring 1998, Dynamic process model for collaboration control
14. William Wen, Fall 1997, A virtual environment for collaborative learning
15. Jyke Y. Lee, Spring 1996, Agent based collaborative engineering support (Stanford University)
16. Hiroshi Ohira, Spring 1995, Collaborative Automotive Inner Panel Design (Stanford University)

8.6 Courses Taught

Course/Units	Course Title	Term
AME 409/4	Senior Design Project	Spring 2001-2020
AME 410/3	Engineering Design Theory and Methodology	Fall 1999-2020
ME 499/3	Special Topics on Engineering Design	Spring 1998
AME 505/3	Engineering Information Modeling	Spring 1999- 2017
ME 505/3	Engineering Information Modeling	Spring 1999-2020
ME 599/3	Special Topics on Engineering Info. Modeling	Fall 1997
ME 599/3	Special Topics on Information Technology	Spring 1997

9. DEPARTMENTAL AND UNIVERSITY SERVICES

- *Spring 2010 – 2015/8: AME Associate Chair.*
- *Spring 2015 - Present: Chair of AME PhD Admission Committee*
- *Spring 2012 - 2014: Co-Chair of AME PhD Admission Committee*
- *Spring 2016 - Present: Member of AME Space Committee*
- *Fall 2016 – Fall 2019: AME TA Assignment Chair*
- *Spring 2013 - Present: Chair of AME Students Award Committee*
- *Spring 2018: Member of Department Manufacturing Faculty Search Committee*
- *Fall 2014: Chair of Department Manufacturing Faculty Search Committee*
- *Fall 2013 – Fall 2014: Member of VSoE Advanced Manufacturing Cross-departmental Search Committee*
- *Fall 2012-Spring 2013: Member of AME Faculty Search (autonomous systems) Committee*

- *Spring 2012 – 2015/8: Member of VoSE PhD Council*
- *Spring 2012: Member of AME Merit Review Committee*
- *Fall 2011-Spring 2012: Member of VoSE APT Committee and APT Executive Committee*
- *Spring 2011: Chair of AME Merit Review Committee*
- *Spring 2010: Member of VoSE Merit Review Committee*
- *Fall 2010—Spring 2012: Member of VoSE Engineering Faculty Council*
- *Spring 2010, 2011, 2012, 2013: Representative of AME EXPLORE USC*
- *Spring 2009: Member of AME Department Merit Review Committee.*
- *Fall 2008 - Spring 2010: Member of VSoE APT Committee.* Worked as subcommittee chairs and members and participated in document preparation, discussion and deliberation.
- *Spring 2008: Served as AME Department Seminar Coordinator.* Scheduled and organized weekly AME Seminars including coordination with department faculty members and their invited speakers to make the Seminar series a success.
- *Spring 2007: Served as AME Department Seminar Coordinator.* Scheduled and organized weekly AME Seminars including coordination with department faculty members and their invited speakers to make the Seminar series a success.
- *Spring 2007: Served as AME Department Merit Review Committee.* Worked on evaluation criteria, collection of information from faculty members and assignment of final merit grades to each of the faculty members.
- *Fall 2006 and Fall 2005: Served as AME Seminar Coordinator.* Scheduled and organized weekly AME Seminars including coordination with department faculty members and their invited speakers to make the Seminar series a success.
- *Fall 2004-Present: Served as Member of Faculty Search Committee* (Design and Manufacturing area): Actively involved in searching for best candidates to fill the tenure track position in the Design and Manufacturing area.
- *Spring 2003: Served as a member of AME Chair Search Committee.* Carried out a national search for the Chair position of AME department. Evaluated several 10s of candidates and made the final recommendation to the Dean.
- *Spring 2003: Served as Chair of 2003 TRW Excellent Teaching Award Committee.* Reviewed all candidates' documents and made final recommendation to the Associate Dean.
- *Summer and Fall 2002: Served as a member of AME Department Strategic Planning Committee.* Reviewed current status of, and made recommendations of future directions for, the AME department.
- *Spring and Fall 2001: Served as a member of Computer Committee of School of Engineering.* Reviewed the computing policy for teaching, research, and administration and made recommendations for the future directions.
- *March 1998: Served as department merit review committee member.* Participated in meetings and discussions for departmental merit review.

- *Spring 1997 – Spring 1998: Served as department **seminar organizer**.* Invited well-known researchers in the area of design and manufacturing; organized an Annual Featured Mechanical Engineering Seminar.
- *Fall 1996 – Present: Served as **Associate Director and Director** of the **IMPACT Laboratory**.* Manage the Lab's industrial relations and daily activities; Advise graduate students; and support Lab's operations.

10. PROFESSIONAL SOCIETY SERVICES

10.1 Journal Services:

- **Editor in Chief**, Artificial Intelligence for Engineering Design, Analysis, and Manufacturing (AIEDAM) (2012/1 - 2017/1)
- **Associate Editor**, *Design Science*, Cambridge University Press (2014/10 - Present)
- **Associate Editor**: ASME Transactions - Journal of Mechanical Design (JMD), ASME Press, 2005/6-2012/6
- **Editorial Board Member**, International Journal of Design Creativity and Innovation (IJDCI), Taylor & Francis (2012/7–Present)
- **Editorial Board Member**: International Journal of Artificial Intelligence in Engineering Design, Analysis, and Manufacturing (AIEDAM), Cambridge University Press, 2003/1 – 2011/12; 2017/1 – Present
- **Editorial Board Member**: International Journal of Advanced Engineering Informatics (AEI), Elsevier, 2002/1 – Present.
- **Editorial Board Member**, Recent Patents on Mechanical Engineering, Benthan Science Publishers (2007/6—2015/12)

10.2 Society Committee and Panel Services:

- **Chair, Honors & Awards Committee**, ASME Design Engineering Division (2011/7 – 2014/6)
- **Executive Committee Member**, ASME Design Engineering Division (2011/7 – 2014/6)
- **Co-Chair, NSF 2019 COV Committee**, Led and conducted CMMI Division Review (2019/6)
- **Proposal Review Panelist**, National Science Foundation, 2008 - 2019, Arlington, VA, USA.
- **Site Visit Committee Member**, Natural Science and Engineering Research Council of Canada, December 10-11, 2008, Toronto, Canada.
- **Vice-Chair**: ASME Design Theory and Methodology Committee, July 2001 – June 2003. Elected by the members of ASME Design Theory and Methodology Committee.

10.3 Conference Services:

- **Planning Committee Member**, National Academies' Transportation Research Board: *Six Biennial Marine Transportation System Innovative Science and Technology Conference*, March 15-17, 2021 Washington DC, USA

- **Program Committee Member**, International Conference on Design Cognition and Computing, June 29 – July 1, 2020, Georgia Tech, Atlanta, USA.
- **Program Committee Member**, International Conference on Design Cognition and Computing, July 2-4, 2018, Polytechnic University of Milan, Milan, Italy.
- **Program Committee Member**, 2018 International Conference on Design Creativity, January 31 – February 2, 2018, Bath, UK.
- **Scientific Committee Member**: 27th CIRP Design Conference, May 10-12, 2017, Cranefield, UK.
- **Chair**, 2016 Design Creativity Workshop, June 26, 2016, Chicago, USA.
- **Program Committee Member**, 2016 International Conference on Design Creativity, November 2 – 4, 2016, Atlanta, USA.
- **Program Committee Member**, International Conference on Design Cognition and Computing, June 27-29, 2016, Northwestern University, Evanston (Chicago), USA.
- **Scientific Board Member**, Third International Conference on Design Creativity, January 12-14, 2015, IIS, Bangalore, India.
- **Chair**, 2014 Design Creativity Workshop, June 22, 2014, UCL, London UK.
- **Program Committee Member**, International Conference on Design Cognition and Computing, June 23-25, 2014, UCL, London UK.
- **Scientific Board Member**, Second International Conference on Design Creativity, September 18-20, 2012, Glasgow UK.
- **Program Committee Member**, 2012 Design Engineering Workshop, June 25-27, 2012, Seoul (June 25) and Daejeon (June 26, 27), Korea.
- **Program Committee Member**, International Conference on Design Cognition and Computing, June 7-9, 2012, College Station, Texas USA.
- **Chair**, 2012 Design Creativity Workshop, June 6, 2012, College Station, Texas USA.
- **Co-Chair**, First International Conference on Design Creativity, November 29 – December 1, 2010, Kobe, Japan.
- **Chair**, *Third Workshop on Design Creativity, July 11, 2010, Stuttgart, Germany.*
- **Program Committee Member**, International Conference on Design Cognition and Computing, July 12-14, 2010, Stuttgart, Germany.
- **Program Committee Member**, ACM Seventh Creativity & Cognition Conference, October 27-30, 2009, University of California, Berkeley, CA, USA.
- **Program Committee Member**, International Conference on Design Cognition and Computing, June 23-25, 2008, Atlanta, Georgia, USA.
- **Chair**, Second International Design Creativity Workshop, June 22, 2008, Atlanta, Georgia, USA.
- **Committee Member**, SIG Design Creativity, Design Society, March 2007 - Ongoing.
- **Program Committee Member**, International Design Creativity Workshop, June 13, 2007, Washington D.C. USA.

- **Program Committee Member**, International Design Research Symposium, November 10th – 11th, 2006, Seoul, Korea.
- **International Scientific Program Committee Member**, The 16th CIRP International Design Seminar, July 16th – 19th, 2006, Kananaskis, Alberta, Canada.
- **Program Committee Member**, 2006 International Workshop on Design Rationale, July 9th, 2006, Technical University of Eindhoven, Netherlands
- **Conference Chair**: ASME 17th International Conference on Design Theory and Methodology, Long Beach, California, September 2005. Elected by members of ASME Design Theory and Methodology Committee.
- **Program Chair**: ASME 16th International Conference on Design Theory and Methodology, Salt Lake City, Utah, September 2004. Elected by members of ASME Design Theory and Methodology Committee.
- **Program Committee Member**, 2002 International Conference on Creativity and Cognition (An ACM SIGCHI International Conference), October 12-16, 2002, Loughborough, UK
- **Co-Chair**, 1997 International CIRP Design Seminar, October 1997, Los Angeles, California. A three-day international conference organized by the USC IMPACT Laboratory on behalf of International Institute for Production Engineering (CIRP); Served as Co-Chair of the conference and was in charge of organizing the conference program and editing the conference proceedings “*Multimedia Technologies for Collaborative Design and Manufacturing*”.
- **Chair**, Workshop on Process Interchange Format, July 1996, Stanford, California. The first workshop for Process Interchange Format (PIF) research group that was composed of 16 researchers from MIT, Stanford (Later USC), University of Toronto, University of Hawaii, University of Edinburgh, and Digital Corporation.
- **Session-Chair**: Organization Modeling for Project Management, *the Third Congress of Computing in Civil Engineering, 1996*. An annual national conference of American Society for Civil Engineers (ASCE) and there were close to 400 participants; Organized this session from proposing the theme to soliciting papers and chairing the session.
- **Session-Chair**, Process Modeling and Workflow, *the Third Congress of Computing in Civil Engineering, 1996*. Organized this session from proposing the theme to soliciting papers and chairing the session.

11. OTHER PROFESSIONAL ACTIVITIES

11.1 Reviewing of Proposals for Granting Agencies:

- National Science Foundation, Program of Science of Design
- National Science Foundation, Program of Engineering Design
- National Science Foundation, Program of Information Technology and Organization
- Natural Science and Engineering Research Council of Canada
- Israel Science Foundation
- Estonia Science Foundation
- Hong Kong University Grant Committee

- Center for Integrated Facility Engineering (CIFE), Stanford University

11.2 Reviewing of Manuscripts for Journals:

1. AIAA Journal
2. ASCE Journal of Aerospace Engineering
3. ASCE Journal of Computing in Civil Engineering
4. ASME Journal of Computing and Information Science in Engineering
5. ASME Journal of Design Automation
6. ASME Journal of Mechanical Design
7. IEEE Internet Computing
8. IEEE MultiMedia
9. IEEE Transactions of Systems, Man, and Cybernetics
10. IIE (Institute of Industrial Engineers) Transactions
11. International Journal of Advanced Engineering Informatics
12. International Journal of Applied Expert Systems
13. International Journal of Artificial Intelligence for Engineering Design, Analysis, and Manufacturing
14. International Journal of Artificial Intelligence in Engineering (AIE)
15. International Journal of Advanced Engineering Informatics (AEI)
16. International Journal of Intelligent Systems in Accounting, Finance, and Management
17. International Journal of Software Practice and Experience
18. Journal of Advances in Engineering Software
19. Journal of Computational and Mathematical Organization Theory
20. Journal of Computers & Industrial Engineering
21. Journal of Design Automation
22. Journal of Design Studies
23. Journal of Engineering with Computers
24. Journal of Intelligent Manufacturing Systems
25. Journal of Research in Engineering Design
26. Management Science