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A Message from the Chair

Dear QSR Section members,

It is my pleasure to report that the QSR section had a productive year in 2022-2023. We manage to propose and implement various initiatives, activities, and events toward improving our service to the members and friends in the community.

This year, the QSR Section has sponsored 67 sessions at the INFORMS Annual Meeting 2023, including 66 regular-talk sessions and 1 flash-talk session. The regular-talk sessions include 15 joint sessions with other sections and societies, such as the Data Mining Section, Energy, and Optimization Society. The sponsored sessions include 3 panel discussions, encompassing topics such as Starting Academic Career for New QSR Faculty Members 2022 and Student Introduction and Interaction Session. The QSR sessions also feature 3 competitions, including the QSR Best Refereed Paper competition, the QSR Best Student Paper competition, and the QSR Best Student Poster competition. There are also 2 journal-focused sessions (originally 3) among QSR-sponsored sessions, including *IISE Transactions* and *Journal of Quality Technology* (JQT).

25th Year Luncheon Workshop

In this year, **the QSR is sponsoring the 25th Anniversary Luncheon.** It has been an incredible journey over the years, with our society thriving thanks to the dedication, collaboration, and shared commitment of our members to advance our field. The anniversary luncheon will host activities ranging from panel discussions reflecting the past, present, and future of the society, to sharing stories through videos and brochures. We look forward to celebrating this joyous occasion with you.

QSR Business Meeting

In this year, **QSR is sponsoring Business Meeting and Dinner event** at the Crowne Plaza Indianapolis (123 W Louisiana St, Indianapolis, IN 46225) on the evening of Monday, October 17.

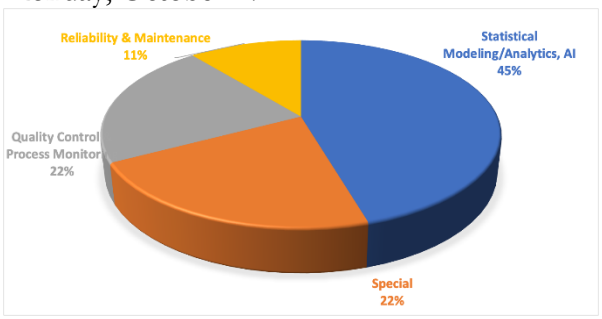


Fig. 1 – Summary of QSR session topics at INFORMS Annual Meeting 2022

ICQSR Recap

This year, the QSR Section organized the **1st INFORMS Conference on Quality, Statistics, and Reliability** (**ICQSR**), hosted by the Edward P. Fitts Department of Industrial and Systems Engineering at the North Carolina State University (NCSU).

This inaugural ICQSR was made possible thanks to the Conference Co-Chairs, the Organization Committee from NCSU, the Advisory Committee, the Program Committee, and many volunteers who contributed to the success of the event. The conference attracted more than 120 attendees from 10 countries and regions around the world. The ICQSR 2023 program consists of 42 sessions. These sessions included:

- 3 plenaries and 9 keynotes by distinguished researchers and industry leaders, covering topics on AI & Analytics in Manufacturing, Healthcare, Energy, etc.;
- 3 competitions, including ICQSR Best Paper Competition, ICQSR Best Poster Competition, and ICQSR Data Challenge;
- 4 panel discussions, including a Leader Forum, Becoming a Successful Future AI & Analytics Practitioner, AI in Advanced Manufacturing, Artificial Intelligence and Data Analytics for Future Industry: Practitioner Perspectives, and
- 1 journal-invited session sponsored by Quality Engineering.

Fig. 2 – ICQSR 2023 Group Photo

The ICQSR 2023 was co-chaired by Vijay Nair, Wells Fargo, Jianjun Shi, Georgia Tech, and Jeff Wu, Georgia Tech. The organization committee was co-chaired by Julie Swann, NCSU, and Jian Liu, University of Arizona, with members Xiaolei Fang, Tim Switzer, and Rob Lasson. The Advisory Committee is chaired by Kwok Tsui, Virginia Tech, with members Russel R. Barton, Bianca Maria Colosimo, Yu Ding, Elsayed Elsayed, Irad Ben-Gal, Jionghua Jin, Roshan V. Joseph, Kwang-Jae Kim, Jingshan Li, Loon Ching Tang, Murat Caner Testik, Fugee Tsung, and Lihui Wang. The Program Committee is co-chaired by Adel Alaeddini, University of Texas at San Antonio, Ran Jin, Virginia Tech, and Jian Liu, University of Arizona, with members Eunshin Byon, Abdallah Chehade, Nan Chen, Xiaoyu Chen, Xinwei Deng, Ahmed Aziz Ezzat, Grasso Marco Luigi Giuseppe, Weihong Guo, Qingpei Hu, Raed Al Kontar, Haitao Liao, Kaibo Liu, Hongyue Son, and Kaibo Wang.

The winners and the finalists of the **2023 ICQSR Best Paper Competition** are:

Qiuzhuang Sun, Piao Chen, Xin Wang, and Zhi-Sheng Ye (WINNERS), The University of Sydney, The National University of Singapore, Robust Condition-Based Production and Maintenance Planning for Degradation Management.

Cheolhei Lee, Xing Wang, Jianguo Wu, and Xiaowei Yue, Multi-output Extreme Spatial Model for Complex Production Systems.

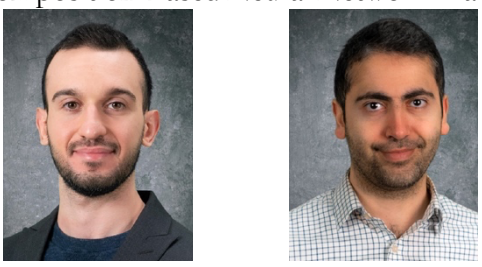
Fenglian Pan, Yinwei Zhang, Larry Head, Jian Liu, Maria Elli, Ignacio Alvarez, Reliability Modeling for Perception Systems in Autonomous Vehicles: a Recursive Event-Triggering Point Process.

Elif Konyar and Mostafa Reisi Gahrooei, Federated Generalized Scalar-on-Tensor Regression.

The winners and the finalists of the **2023 ICQSR Best Poster Competition** are:

Bo Shen and Chenyang Li, New Jersey Institute of Technology (WINNERS), Provable Convergence of Tensor Decomposition-Based Neural Network Training.

Wael Hassanieh and Abdallah Chehade, New Jersey Institute of Technology (WINNERS), Provable Convergence of Tensor Decomposition-Based Neural Network Training.



Student Introduction Session

The QSR Section will host the Student Introduction and Interaction session. The session is one of QSR's very own and has been successfully organized in the last few years to

help bring PhD students into the spotlight to showcase their research through a brief elevator speech and then benefit from the advice of prominent QSR faculties in a mini panel discussion on how to land academic positions, navigate academic life, research, and teaching.
The Student Introduction and Interaction Session is designed for QSR student members to build their professional network, show up their talents, and learn from invited guests. In this session, each student will be given two minutes to deliver an elevator speech about his/her research interests and accomplishments. Senior QSR members, junior faculty members, and industry guests are invited to interact with all attendees.
The **Student Introduction and Interaction Section** was chaired by Hao Yan, Arizona State University, and Akash Deep, Oklahoma State University. **It will be held on Sunday, Oct 15, 2023, 2:15 PM - 3:30 PM in CC -North 228A with session ID SD48**. So far, we have 22 students as participants from Binghamton University, Duke University, Georgia Tech, Hong Kong University of Science and Technology, Mississippi State University, Rutgers University, The Hong Kong University of Science and Technology, The Ohio State University, Tsinghua University, University of Florida, University of Southern California, etc. The session will start with a short introduction of each student, and then the panelists, Haitao Liao (University of Arkansas), Weihong "Grace" Guo (Rutgers University), Xiaochen Xian (University of Florida), Yifei Yuan (Amazon), Ryan Lekivetz (JMP) will discuss topics related to academia and industry. Finally, there will be an interaction session where all students, panelists, and other participants can chat and share ideas.

INFORMS DEI Session and Certificate

This year, a DEI Co-sponsored session was organized to feature how INFORMS members can leverage their research skills to promote DEI by tackling challenges faced by the under-represented minority population. The session covers research development on a variety of DEI research topics that range from addressing health disparities with quantitative frameworks and tele-screening programs to improving fairness in machine learning. Certificates were provided to speakers as recognition. This event was conceived and promoted by Bing Si, and sponsored by the service grant that she receives through the INFORMS DEI Ambassador program.

Competitions
As in previous years, the QSR Section organizes and hosts various competitions.
The **QSR Best Refereed Paper Competition** was chaired by Mostafa Reisi Gahrooei, University of Florida, Xiaowei Yue, Virginia Tech, Li Zeng, City University of Hong Kong. We have received 22 submitted papers. The titles and authors of the four finalist papers (alphabetically ordered) are:

- Personalized Tucker Decomposition: Modelling Commonality and Peculiarity on Tensor Data by Jiuyun Hu (Arizona State), Naichen Shi (University of Michigan), Raed Al Kontar (University of Michigan), Hao Yan (Arizona State)
- Online Modeling and Monitoring of Dependent Processes under Resource Constraints by Tanapol Kosolwattana (University of Houston), Huazheng Wang (Oregon State University), Ying Lin (University of Houston)
- Fair Collaborative Learning (FairCL): A Method to Improve Fairness amid Personalization by Ryan Lin (University of Washington), Chaoyue Zhao (University of Washington), Xiaoning Qian (Texas A&M), Kendra Vehik (University of South Florida), Shuai Huang (University of Washington)
- Privacy-aware Gaussian Process Regression by Rui Tuo (Texas A&M University) and Raktim Bhattacharya (Texas A&M University)

The finalists will present their work to a panel of judges at a special session during the 2023 INFORMS Annual Meeting in Phoenix, Arizona. **The session is scheduled for Monday, October 16, 2023, 10:45 AM - 12:00 PM at CC-North 227C.**
The **QSR Best Student Paper Competition** was chaired by Chen Zhang, Tsinghua University, Xiao Liu, Georgia Institute of

Technology, Hui Yang, Pennsylvania State University. We have received 18 submitted papers this year. The titles and authors of the four finalist papers (alphabetically ordered) are:

- **Michael Biehler, Yiqi Sun, Shriyanshu Kode, Jing Li, Jianjun Shi** (Georgia Tech), PLURAL: 3D Point Cloud Transfer Learning via Contrastive Learning with Augmentations.
- **Zheng Dong, Shixiang Zhu, Hanyu Zhang, Yao Xie, Pascal Van Hentenryck** (Georgia Tech), Multi-resolution Spatio-temporal Prediction with Uncertainty Quantification for Wind Power Generation.
- **Junoh Heo and Chih-Li Sung** (Michigan State University), Active learning for a nonadditive model for multi-fidelity computer simulations.
- **Yujie Wei, Xingchen Liu, Ershun Pan, Zhi-Sheng Ye** (Shanghai Jiaotong University & National University of Singapore), A Covariate-assisted Monitoring Scheme for Multivariate Processes.

The final round of competition will be held in Session QSR Best Student Paper Competition on October 15, 2023, 10:45 AM - 12:00 PM at CC-North 227C.

The **QSR Best Student Poster Competition** was chaired by Minhee Kim, University of Florida, and Wenmeng Tian, Mississippi State University. 26 students have submitted their posters for review. They will also give a short presentation of their posters to a panel of judges at a special session during the 2023 INFORMS Annual Meeting. **The session ID is MD88, and it will take place in-person in CC-North Exhibit Hall from 2:15 - 3:30 PM on Monday, October 16.**

On behalf of the QSR Council and the whole QSR Community, I would like to express my congratulations to the finalists of all the QSR competitions, and a warm thanks to the reviewers and judges for their time and efforts in evaluating the manuscripts and posters, and providing their comments and feedback.

QSR Subcommittee

As every year, great effort has been devoted by the QSR Subcommittees in the organization, management and dissemination of many initiatives that make our Section one of the most active INFORMS sections.

The **QSR Conference Subcommittee** is chaired by Yisha Xiang (University of Houston). The QSR Conference Subcommittee conducted planning for the 2023 INFORMS QSR cluster. The committee is chaired by Yisha Xiang (University of Houston), and it includes Jian Liu (University of Arizona), Hongyue Sun (University of Georgia), Hao Yan (Arizona State University), Akash Deep (Oklahoma State University), Ashif Iquebal (Arizona State University) and Andi Wang (Arizona State University).

The **QSR 25th Year Luncheon Subcommittee and Business Meeting Reception Subcommittee** are chaired by Yisha Xiang (University of Houston) and Hao Yan (Arizona State University), respectively. The members include Jian Liu (University of Arizona), Hongyue Sun (University of Georgia), Akash Deep (Oklahoma State University), Ashif Iquebal (Arizona State University) and Andi Wang (Arizona State University). This subcommittee helped plan the QSR 25th Anniversary Luncheon and the business meeting reception. The major work includes but is not limited to the following: helping select the menu for the luncheon and business meeting, booking the reception location, inviting panelists to the Luncheon, business meeting planning, and celebration video collecting and editing.

The **QSR Fundraising Subcommittee** is chaired by Hongyue Sun (University of Georgia) with members Xiaochen Xian (University of Florida), Yu (Chelsea) Jin (Binghamton University), Trung Le (University of South Florida), Yifu Li (University of Oklahoma), and Ashif Sikandar Iquebal (Arizona State University). During the year, the Subcommittee had several brainstorming sessions to identify potential funding raising channels to support QSR activities, draft the plan, and run the call for funding. The main outcomes of this year are: (1) discuss the strategies to run the call for funding for ICQSR; (2) compose the materials and policy for ICQSR sponsorship; (3) send the call for sponsorship for ICQSR to social media channels and individual emails to departments as well as established QSR members; (4) prepare the acknowledgment items for ICQSR sponsors; (5) prepare and run the INFORMS Annual Meeting

call for sponsorship by sending individual emails to departments as well as established QSR members; (6) prepare and deliver the acknowledgment items to INFORMS Annual Meeting sponsors; (7) contribute to the QSR 25th year anniversary celebration planning; and (8) contribute to the planning of the QSR Business Meeting dinner event.

The **QSR Membership Growth Subcommittee** is chaired by Mostafa Reisi Gahrooei (University of Florida), with members Dan Li (Clemson University), Nathan Gaw (Air Force Institute of Technology), Chao Wang (University of Iowa) and Akash Deep (Oklahoma State University). The Subcommittee organized two research webinars by Dr. Kong (Virgina Tech) and Dr. Alagoz (Wisconsin Madison). The subcommittee also initiated the effort to organize QSR student webinars to connect to industry and previous members working in industry. The student webinars/happy hours are organized by our student members (Michael Biehler, Georgia Institute of Technology; Elif Konyar, University of Florida; Shancong Mou, Georgia Institute of Technology; Yinwei Zhang, University of Arizona). The first webinar invited several guests from industries to discuss the data science profession and industry job search tutorials.

The **QSR Academic Subcommittee** was chaired by Wenmeng Tian (Mississippi State), with members Xiao Liu (Georgia Tech), and Chen Kan (UT-Arlington). They continued last year's effort to serve and promote the academic activities of the QSR Community within and beyond INFORMS. This year, the subcommittee organized a special panel discussion entitled "Starting academic career for new and prospective QSR faculty" for junior QSR members. This panel is a continued effort from year 2022, forming a special panel series for supporting career development for the junior QSR members. The panel will be moderated by Wenmeng Tian (Mississippi State), and four distinguished panelists will share their insights and suggestions regarding the best practices to start an academic career. Our panelists this year include Dr. Adel Alaeddini (UTSA), Dr. Peihua Qiu (University of Florida), Dr. Yao Xie (Georgia Tech), and Dr. Hui Yang (Penn State).

The **QSR Industry Relation Subcommittee** was chaired by Raed Al Kontar (University of Michigan), with members Xubo Yue (Northeastern University) and Seokhyun Chung (University of Virginia). The mission of the Industry Relation Subcommittee is to stimulate industry-academia collaborations and increase the visibility and impact of the QSR Section in the industry. The Subcommittee held multiple events aimed at achieving its mission. For instance, on May 25, 2023, the subcommittee held the first INFORMS Conference on Quality, Statistics, and Reliability (ICQSR) Data Competition titled: "Thermal Video Segmentation and Diagnosis in Laser-Based Metal Additive Manufacturing". The data for the competition came from the 2018 additive manufacturing (AM) Benchmark Test Series from the National Institute of Standards and Technology (NIST), aimed at encouraging additive manufacturing practitioners to develop novel mitigation strategies for challenging build scenarios. A key feature of this competition was its emphasis on unique and influential case studies that (a) showcase inventive and logically sound approaches to tackling difficult issues, (b) exemplify the use of the Scientific Method, and (c) have the potential to spark additional constructive dialogues and partnerships between academia, industry, consulting, and government. Furthermore, the subcommittee has embarked on a fresh initiative aimed at creating a network of student representatives from various universities that have QSR. The primary objective of this endeavor is to hold local QSR events, such as Trivia nights, at which these representatives can introduce our QSR community and share compelling research success stories with their peers, faculty members, and local industry professionals who are invited to these gatherings. The overarching aim is to boost the visibility of QSR within these institutions and contribute to an increase in enrollment in QSR-related programs. Besides that, the subcommittee has worked on creating an industry QSR collaborators emailing list. This resource serves as a vital bridge for facilitating communication and collaboration between the QSR Section and industry partners. By maintaining a robust network of industry contacts, the subcommittee aims to foster meaningful relationships, exchange valuable

insights, and explore potential synergies that can mutually benefit both academia and industry.

The QSR Public Communication Subcommittee was chaired by Hao Yan (Arizona State University) with members Ahmed Aziz Ezzat (Rutgers University) and Xiaoyu Chen (University at Buffalo), Shenghan Guo (Arizona State University). They worked to promote public communication within the QSR Section and its visibility to industry, academia, and beyond. The Subcommittee continued last year's efforts in supporting the QSR Section and other Subcommittees with surveys, social media communications, public posts, and email moderation for the QSR mailing list. Continuous efforts have been devoted to the update of the QSR website and to the development of a new web portal devoted to the QSR Community.

Other activities were devoted to supporting other Subcommittees to strengthen the involvement of previous QSR members now working outside academia and to reach student members as well. The volunteers of the Public Communication Subcommittee devoted great efforts to updating the contact information enclosed in QSR members' lists, developing a procedure that will be implemented in the following years to enhance the effectiveness of communications within and outside our community. Finally, a major effort was devoted to preparing the present QSR newsletter, which is aimed at providing the QSR Community with a detailed and up-to-date overview of the Section's activities, initiatives, results, officers, boards, and sponsors.

As you can imagine, the QSR council members and volunteers put their tremendous efforts, such that every QSR member received more benefits and QSR Section could keep growing stronger in the long term. This is well reflected in the most recent community report showing an increase in the number of **QSR memberships to 353** from all over the world (as shown in Figure 3). I would like to earnestly thank the QSR council, advisory board, and volunteers for their tireless efforts toward our goals and sustained growth. I would also like to acknowledge our sponsors from Mississippi State University, Purdue University, Virginia Tech, University of Arkansas, Binghamton University, University of Florida, University at Buffalo, SUNY, and the University of Michigan-Dearborn among others. I would also like to thank the members, and friends, who have supported us in the past year by participating in various activities and providing us with valuable feedback. Without your support and encouragement, our success would not have been possible.

Yours sincerely,

Jian Liu

Chair of the QSR Section, INFORMS

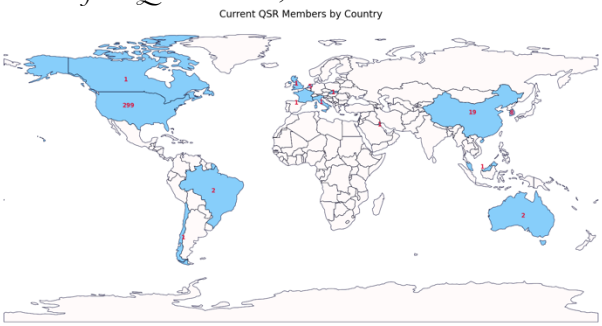


Fig. 3 – QSR Membership Map

2022 Conference Review

INFORMS Annual Meeting, October 16-19, 2022, Indianapolis, Indiana.

Fig. 4 – Logo of the 2022 INFORMS Annal Meeting

The 2022 INFORMS Annual Meeting was held in Indianapolis, IN. Like every year, the QSR Section created many activities. This was made possible thanks to the QSR Advisory Board, QSR Council members, and many volunteers who contributed to the success of the event. The QSR Section was again among the most active sections in the INFORMS, with 57 sponsored sessions, including 55 regular-talk sessions and 2 flash-talk sessions. These sessions included:

- 9 joint sessions with other sections and societies, such as the Data Mining Section, College on Artificial Intelligence Section,

Optimization Society, and Health Application Society.

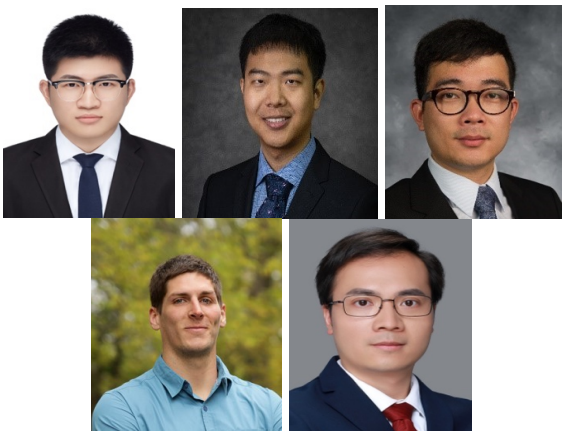
- 2 panel discussions on Starting Academic Career for New QSR Faculty Members and the Student Introduction and Interaction Session.
- 5 competitions, including the QSR best-refereed paper competition, the QSR best student paper competition, the QSR best case study paper competition, the QSR best poster competition, and the QSR data challenge.
- 4 journals focused sessions among QSR-sponsored sessions, including Technometrics, IISE Transactions, Journal of Quality Technology (JQT), and Journal of Intelligent Manufacturing.

In 2022, the QSR Section also organized the 2nd QSR Workshop at the INFORMS Annual Meeting. The Workshop was held in person on October 15, 2022. 20 speakers contributed to the Workshop with more than 50 attendees. The Workshop consisted of 8 sessions, including 4 invited sessions. The workshop also hosted the data challenge competition. The keynote speaker was Professor Kwok L. Tsui, from the Grado Department of Industrial and Systems Engineering, at Virginia Tech. The industry keynote speaker was Jason Ryska from Ford Motor Company. The Workshop also hosted a joint panel on AI Fairness and Interpretability with DMDA Worskhop.

The QSR Workshop is co-chaired by Abdallah Chehade, Ran Jin, and Kaibo Liu and the workshop executive committee includes Abdallah Chehade, Ran Jin, Kaibo Liu, Eunshin Byon, Ramin Moghaddas, Jian Liu, and Kwok Tsui.

The five award competitions received several high-quality submissions (28 submissions for the QSR Best Refereed Paper Competition, 31 submissions for the QSR Best Student Paper Competition, 6 submissions for the QSR Best Case Study Paper Competition and 23 participants for the QSR Best Student Poster Competition, 10 team participants for the QST Data Challenge Competition).

The winners and the finalists of the **2022 QSR Best Paper Competition** are:



Xinmin Wang, Chao Wang, Xuan Song, Levi Kirby, and Jianguo Wu (WINNERS), Peking University & University of Iowa, Multi-source transfer learning through regularized multi-output Gaussian convolution process.

Bo Shen and Zhenyu (James) Kong, A novel active anomaly discovery method and its applications in additive manufacturing.

Seokhyun Chung and Raed Al Kontar, Federated Multi-output Gaussian Process.

Xinchao Liu, Xiao Liu, Tulin Kaman, and Guang Lin, Physics-informed statistical learning and prediction for nonlinear dynamical systems.

The winner and the finalists of the **2022 QSR Best Student Paper Competition** are:

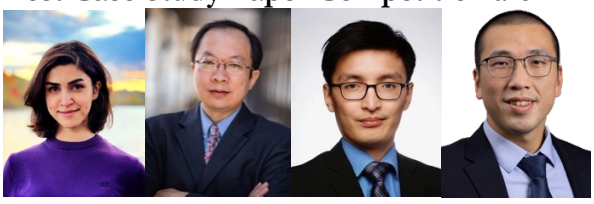
Zihan Zhang (WINNER), Georgia Tech, Tensor-based Temporal Control for Partially Observed High-dimensional Streaming Data.

Yingyan Zeng, Ensemble Active Learning by Contextual Bandits for AI Training in Manufacturing.

Chengyu Zhou, A Supervised Tensor Dimension Reduction-Based Prognostic Model for Applications with Incomplete Imaging Data.

Henry Shaowu Yuchi, Design and Analysis of Finite Element Simulations.

The winner and the finalists of the **2022 QSR Best Case Study Paper Competition** are:



Maede Maftouni, Bo Shen, Andrew Chung Chee Law, Zhenyu (James) Kong (Virginia

Tech), **Niloofar Ayoobi Yazdi, Fereshteh Ghiasvand** (Tehran University of Medical Sciences), **Fahimeh Hadavand** (Shahid Beheshti University of Medical Sciences) (WINNERS), A Mask-Guided Attention Deep Learning Model for COVID-19 Diagnosis Based on an Integrated CT Scan Images Database.

Tong Wu, Yudong Wang, Zhisheng Ye, Nan Chen, **Zhijian Chen**, Spatio-Temporal Analysis of Mass Telecommunication Base Station Failure Events.

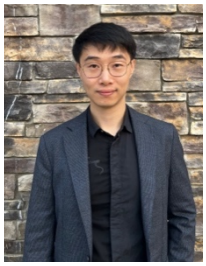
Mengfei Chen, Weihong (Grace) Guo, **Richard Furness, Rajesh Gupta, Saumuy Puchala**, Hierarchical RNN-Based Framework for Throughput Prediction in Automotive Production Systems

The winner and honorable mention of the **2022 QSR Best Student Poster Competition** are:

Weizhi Lin (WINNER), University of Southern California, Patch-Based Functional Deviation Characterization and Prediction for Complex Freeform Manifolds in Additive Manufacturing.

Xin Zan (HONORABLE MENTION), University of Florida, Data-driven Adaptive Testing Resource Allocation Strategies for Real-time Monitoring of Infectious Diseases.

The winner and the finalists of the **2022 QSR Industry Data Challenges** are:



Qiuzhuang Sun (WINNERS), National University of Singapore, Anomaly Detection and Root Cause Analysis for End-of-Line Vehicle Component Tests

Yu An, Unsupervised Anomaly Detection and Root Cause Localization via GAT for Multi-variate Time Series

Bo Shen, **Jihoon Chung, Raghav Gnanasambandam, Yutong Zhang**, Automatic Thresholding by Reconstruction Error in Unsupervised Anomaly Detection

Appreciation of the QSR Advisory Board

The QSR Advisory Board, currently consisting of 16 senior leaders in the field of Quality, Statistics, and Reliability, has strongly contributed to the development of the QSR section and has been providing support to its continuous improvement.

Professor Elsayed Elsayed at Rutgers University is currently serving as the chair of the board for 2020-2026. The board oversees the operation of QSR, provides advice on various activities, and supports the QSR officers to run the QSR section effectively and efficiently.

According to the QSR By-Law, a QSR advisory board member is serving on the board for a six-year term. The chair of the QSR advisory board is serving for a six-year term. Former QSR advisory board members may be re-invited by the QSR advisory board chair to serve on the board. As many as one-third of the advisory board can be newly appointed each year.

We thank the board members for their sincere advice and support for the QSR community and look forward to working with the board members in the following years.

Member updates

Honors and Awards Received

Roozbeh "Ross" Salary (Marshall University (West Virginia State)) received the College of Engineering Junior Research Award and Medal for excellence in research at Marshall University.

Wenmeng Tian (Mississippi State University) received the IISE Manufacturing and Design Division Outstanding Young Investigator Award.

Michael Biehler is a recipient of the George Fellowship for academic strength and commitment to health systems, the Mary G. and Joseph Natrella Scholarship from the American Statistical Association (ASA), the Interdisciplinary and Health and Environment Leadership Development (IHE-LeaD) Fellowship from the Burroughs Welcome Fund, the Phillip J. and Delores A. Scott Graduate

Student Health and Wellness Award, the H. Milton Stewart Ph.D. Student Teaching Fellowship won the IISE QCRE Best student paper award, was a finalist for the IISE DAIS Best student paper award.

Bing Si (State University of New York at Binghamton) received the Early Stage Distinguished Research Award from the State University of New York at Binghamton.

Cesar Ruiz (University of Oklahoma) was a finalist for the Peter Luh Memorial Best Paper Award for Young Researcher at the IEEE CASE conference.

Shancong Mou (Georgia Institute of Technology) was the recipient of 1)IISE QCRE Division Best Track Paper Award Winner, IISE, 2023. 2) John S.W. Fargher Jr. Scholarship, IISE, 2023 3) Angela P. and Reed J. Baker Research Excellence Award, School of ISyE, Georgia Institute of Technology, 2023

Weihong "Grace" Guo (Rutgers University) and co-authors won the IEEE Transactions on Automation Science and Engineering Best New Application Paper Award, as the single awardee in the 2023 round.

Kaibo Liu (University of Wisconsin-Madison) was honored by the 2023 class of Georgia Tech Alumni Association's 40 Under 40 recognition program.

Kowk Tsui (Virginia Tech) was awarded the INFORMS Fellow in 2023

Grants Received

Roozbeh "Ross" Salary (West Virginia State) (Single PI) received $353,493 from NSF-RII Track-4; for the proposal entitled "Investigation of Two-Phase Aerosol Formation, Transport, and Deposition in Aerosol Jet Printing for Submicron Manufacturing of Printed Electronic Devices", 2023-2026

Eunshin Byon (University of Michigan) (PI) received the NSF grant for the proposal entitled "Calibrating Digital Twins in the Era of Big Data with Stochastic Optimization" in collaboration with Dr. Shashaani at North Carolina State University.

Bing Si (State University of New York at Binghamton) (PI) received $2,452,065 from the National Institutes of Health (NIH) for the proposal entitled "R01: Sleep and Cardiometabolic Subgroup Discovery and Risk Prediction in United States Adolescents and Young Adults".

Bing Si (State University of New York at Binghamton) (PI) received $1,000 from INFORMS for the service proposal entitled "INFORMS DEI Research: How Can Your Research Help to Promote DEI?".

Ana Maria Estrada Gomez (Purdue University) (PI) received $703,325 from the National Science Foundation (NSF) for the proposal entitled "Collaborative Research: SCH: Therapeutic and Diagnostic System for Inflammatory Bowel Diseases: Integrating Data Science, Synthetic Biology, and Additive Manufacturing".

Mostafa Reisi (University of Florida) (PI) received $1,188,351 from National Science Foundation (NSF) for the proposal entitled "CPS: Medium: Connected Federated Farms: Privacy-Preserving Cyber Infrastructure for Collaborative Smart Farming".

Mostafa Reisi (University of Florida) (PI) and **Hao Yan** (Arizona State University) (PI) received $194,057 and $165,000 from National Science Foundation (NSF) for the proposal entitled "Collaborative Research: Multi-Agent Adaptive Data Collection for Automated Post-Disaster Rapid Damage Assessment".

Chiwoo Park (Florida State University) (PI) received $449,996 Air Force Office of

Scientific Research (Award No. FA9550-23-1-0673) for the proposal titled "from Data-Driven Adaptive Control of Shape Evolution with Regime Changes." 2023-2026. Co-PIs: Anuj Srivastava and Peihua Qiu.

Chiwoo Park (Florida State University) (Co-PI) Planning: HBCU-UP: Strengthening Data Science Research Capacity and Education Programs through Academia-Industry Partnership. National Science Foundation (Award No. 2332161). 2023-2025. $200,000. PI: Yanshuo Sun

Weihong "Grace" Guo (co-PI) and collaborators received $2,999,632 from the National Science Foundation for the proposal entitled "FMRG: Cyber: ManufacturingUSA: NextG-Enabled Manufacturing of the Future (NextGEM)", 06/2024-05/2028.

Weihong "Grace" Guo (PI) and collaborators received $150,000 from the New York Metropolitan Transportation Council for the proposal entitled "Transit Service Coordination Needs Assessment", 10/2023-09/2024.

Xiaoyu Chen (State University of New York at Buffalo) (Multiple PI) received $750,000 from the American Heart Association (AHA) for the proposal entitled "Manage Cardiac Surgery Associated Acute Kidney Injury with Advanced Machine Learning and Decision Optimization".

Kaibo Liu (University of Wisconsin Madison**)** (PI) and **Shiyu Zhou** received $712,550 from the Office of Naval Research (ONR) for a four-year project, entitled "Explainable AI for prognostics with uncertainty quantification and domain knowledge enhancement".

Kaibo Liu (University of Wisconsin Madison) (PI) and his collaborators received $1M from the Department of Energy (DOE) for a three-year project, entitled "Cybersecurity in advanced reactor fleet by cyber-informed design, real-time anomaly detection, dynamic monitoring, and cost-effective mitigation strategies".

Yuxin Wen (Chapman University) (PI) received $174,371 from the National Science Foundation for the proposal entitled "CRII: SCH: Towards Smart Patient Flow Management: Real-time Inpatient Length of Stay Modeling and Prediction".

Ahmed Aziz Ezzat (Rutgers University) (Lead PI) received joint funding from the National Offshore Wind Research & Development Consortium (DOE/NYSERDA) for the project entitled "AI-Powered Physics-Based Tool for OSW Forecasting and Grid Integration".

Abdallah Chehade (University of Michigan-Dearborn) (PI) received $200,000 for the Ford Alliance Project, entitled "Building Dependencies between product failures".

Chenang Liu (Oklahoma State University) (PI) received $130,500 from the Oklahoma Center for the Advancement of Science and Technology (OCAST) for the proposal entitled "AI-enabled real-time imaging and diagnosis technique for effective drug delivery in solid tumor treatment".

Chenang Liu (Oklahoma State University) (co-PI) received $549,999 (share: 41%) from the National Science Foundation (NSF) for the proposal entitled "PFI-RP: Improving Inhaler Design and Efficacy with a Novel AI-assisted Digital Human Testing Platform".

Chenang Liu (Oklahoma State University) (co-I) received $217,323 (share: 41%) from the National Institutes of Health (NIH) for the proposal entitled "Empowering Cloud Computing for Non-image-based Diabetic Retinopathy Screening by Designing an EHR-oriented Incremental Learning Framework".

Andi Wang (Arizona State University, School of Manufacturing Systems and Networks, PI) and **Hao Yan** (Arizona State University, School of Computing and Augmented Intelligence, Co-PI) received $1,000,000 from the DOE, Nuclear Energy University Program for the proposal entitled "Bayesian Optimization for Automatic Reactor Design Optimization",

Hongyue Sun (University of Georgia) (UGA PI) received a NAVY grant for the proposal entitled "SBIR Phase I: MB.CI: Model-Based Point

Cloud Inspection" with a total funding of $140,000.

Hongyue Sun (University of Georgia) (PI) received an NSF grant for the proposal entitled "Ethical Industry 4.0: Embedding Legality, Integrity and Accountability in Digital Manufacturing Ecosystems" with a total funding of $565,778.

Hongyue Sun (University of Georgia) (Co-PI) received a MxD grant for the proposal entitled "Proactive worker safety for Industry 4.0 using AI" with a total funding of $905,926 (including 50% cost share).

Hongyue Sun (University of Georgia) (Co-PI) received an NSF grant for the proposal entitled "CyberTraining: Implementation: Small: Infrastructure Cybersecurity Curriculum Development and Training for Advanced Manufacturing Research Workforce" with a total funding of $499,983.

Shiyu Zhou (University of Wisconsin-Madison) and **Yong Chen** (University of Iowa) Received $207,158, and $300,442 from the National Science Foundation for the proposal entitled "Collaborative Research: Fusion of Siloed Data for Multistage Manufacturing Systems: Integrative Product Quality and Machine Health Management"

Adel Alaeddini (University of Texas at San Antonio) (PI) received $1,000,000 from the DOE for the proposal entitled "Active Learning Estimation and Optimization (ALEO) of Irradiation Experimental Design for Efficient Accelerated Fuel Qualification", 1/10/23-09/30/26.

Adel Alaeddini (University of Texas at San Antonio) (PI) received $500,000 from CPS Energy for the proposal entitled "Predictive Modeling and Optimization of the Impact of Transportation Electrification on Smart Grid using AI-Driven City-Scale Digital Twin", 1/1/24-12/31/26.

Adel Alaeddini (University of Texas at San Antonio) (Co-PI) received $1,500,000 from CPS Energy for the proposal entitled "Towards Smart City Resilience: AI-Enhanced Digital Twin for Urban Planning in San Antonio", 1/1/24-12/31/26.

Adel Alaeddini (University of Texas at San Antonio) (PI) received $50,000 from the National Science Foundation for the proposal entitled "I-CORPS: AI-Driven Prediction, Monitoring, and Management of Unwanted Behavior in Patients with Autism: Realtime, Smart, Automated, and Personalized", 10/15/23-9/14/24.

Adel Alaeddini (University of Texas at San Antonio) (Co-PI) received $50,000 from Navy STTR for the proposal entitled "Development of an Additive Manufacturing (AM) Candidate Assessment Tool", 10/15/23-9/14/24.

Ph.D. Degrees Earned and Promotions

Matthew-Remy Aguirre (2023), "Data Analytics of Human Behaviors with Applications", PhD Dissertation, The University of Michigan. Advisor: Dr. Jionghua (Judy) Jin. Current Position: Operations Research Analyst, Revenue Management, American Airlines. Email: Matthew.aguirre@aa.com

Abdullah Al Mamun (2023) AI-enabled modeling and monitoring of data-rich advanced manufacturing systems." PhD Dissertation, Mississippi State University. Advisor: Dr. Wenmeng Tian. Current Position: Assistant professor at University of North Alabama.

Wesam Alramadeen (2022), "Statistical multilevel modeling and heterogeneous data fusion with application in telemedicine", PhD Dissertation, State University of New York at Binghamton. Advisor: Dr. Bing Si. Current Position: Tenure-track Assistant Professor at the University of Scranton.

Vidita Gawade, Ph.D. (2023) "Integration of Physics with Data Science Models for Predicting Porosity and Emission in Additive Manufacturing" Advisor: Weihong "Grace" Guo (Rutgers University). Current position: Assistant Professor in the School of Management at New York Institute of Technology.

Jianxin Xie; 2023; "Physics-Augmented Modeling and Optimization of Complex Systems: Healthcare Applications"; Dr. Bing Yao; University of Tennessee, Knoxville; Assistant Professor at University of Virginia

Petros Papadopoulos (2023), "Data-driven Optimization of Operations and Maintenance in Offshore Wind Farms," PhD Dissertation. Advisor: Dr. Ahmed Aziz Ezzat, Rutgers University, Current Position: R&D Engineer at ThermoVault Inc., Belgium.

Mayuresh Savargaonkar, 2023, PhD dissertation Title: Custom AI Architectures for Predictive Analytics Using Bayesian Statistics and Deep Learning, PhD advisor: Abdallah Chehade, UM-Dearborn, Research Engineer, Idaho National Lab

Zhangyue Shi (2023), "Advanced Data Analytics-based Quality Assurance for Smart Manufacturing", PhD Dissertation, Oklahoma State University. Advisor: Dr. Chenang Liu. Current Position: Data Scientist at Bayer AG.

Yuxuan Li (2023), "Adversarial Learning-Assisted Data Analytics in Manufacturing and Healthcare Systems", PhD Dissertation, Oklahoma State University. Advisor: Dr. Chenang Liu. Current Position: Assistant Professor at East China University of Science and Technology

Promotions

Chiwoo Park, was promoted to Professor in 2023, Department of Industrial and Manufacturing Engineering, Florida State University.

Kaibo Liu, was promoted to Professor in 2023, Department of Industrial and Systems Engineering, University of Wisconsin-Madison.

Abdallah Chehade, was promoted to Fouts Family Professor in 2023, Industrial and Manufacturing Systems Engineering, UM-Dearborn.

Wenmeng Tian, was promoted to Associate Professor in 2023, Department of Industrial and Systems Engineering, Mississippi State University.

Kamran Paynabar, was promoted to Fouts Family Professor, H. Milton Stewart School of Industrial and Systems Engineering, Georgia Teach

Dr. Asil Oztekin has been promoted to Full Professor as of September 1, 2023 at the Manning School of Business, University of Massachusetts Lowell. He is also an affiliated faculty member of the Biomedical Engineering & Biotechnology Graduate Program of the UMASS system.

Call for papers

Special Issue on Bioengineers "Advanced Manufacturing and Biomaterials for Tissue Engineering and Regenerative Medicine". Details: https://www.mdpi.com/journal/bioengineering/special_issues/158Q14T604

A symposium on "Advances in Digital Twins of Manufacturing Processes and Systems" at the 2024 ASME International Manufacturing Science & Engineering Conference (MSEC2024, to be held in June 17-21, 2024, at Knoxville, Tennessee) invites your submission. Abstract due: 10/23/2023; Paper due: 11/1/2023. Details: https://event.asme.org/Events/media/library/resources/msec/MSEC-2024-Call-for-Papers.pdf

Frontiers in Physiology Special Issue on "Artificial Intelligence for Smart Health: Learning, Simulation, and Optimization". Abstract Due: 11/3/202. Paper Due: 03/27/2024. Details: https://www.frontiersin.org/research-topics/58894/artificial-intelligence-for-smart-health-learning-simulation-and-optimization

Special Issue on IEEE T-ASE Engineering and Operating Digital Twins for Automated Production or Construction Systems. Paper Due: 03/31/2024. Details: https://www.ieee-ras.org/images/publications/t-ase/2023/CfPssdigitaltwin2023-07-22final.pdf

Announcements

Other job openings:

Arizona State University (ASU)

The Ira A. Fulton Schools of Engineering at Arizona State University (ASU) and the School of Computing and Augmented Intelligence (SCAI) seek applicants for a tenure-track or tenured faculty position in the area of "Operations Research for Social Good." SCAI, one of the eight Fulton Schools, houses a vibrant Industrial Engineering and Computer Science research community.
There are three areas of focus for this year positions:

- **Operations Research for social good**: Particular areas of interest include, but are not limited to, scientists and engineers with research into optimization methods, applied probability and statistics, and stochastic modeling to support policy and decision-making in socially critical contexts. More details at the application link: https://apply.interfolio.com/132989
- **Supply Chain Engineering:** Particular areas of interest include, but are not limited to, scientists and engineers whose research is geared towards enhancing the efficiency, resilience and security of supply chains, thereby facilitating the globalization and digital transformation of supply chains. More details at the application link: https://apply.interfolio.com/132978
- **Ergonomics and Human-Computer Interaction:** Particular areas of interest include, but are not limited to, human-machine/human-AI interactions, human-in-the-loop systems, human behavior modeling, VR/AR/MR, and related fields. More details are at the application link: https://apply.interfolio.com/132979

Arizona State University (ASU) - Polytechnic Campus

The School of Manufacturing Systems and Networks an integral part of the Ira A. Fulton Schools of Engineering at Arizona State University (ASU is actively seeking qualified applicants for multiple tenure-track or tenured faculty positions.

- Focus Area 1: Robotics & Autonomous Systems
- Focus Area 2: Cyber-manufacturing Systems and Industrial Automation:
- Focus Area 3: Generative AI and Physics-based Computing

Link:
https://urldefense.com/v3/__https://apply.interfolio.com/132679__;!!IKRxdwAv5BmarQ!YkUSurMYuJVzl40yUeq79DSRn8lT_SyCsuXgcj7Ivhdqu9fwY7WyNN-3UHto_QfxYQjRZEhy7rVXr5gVzFGYWo9A2lTjmkBEL70$

Clemson University

We are seeking candidates with strong methodological background in data analytics, applied statistics, data-driven modeling, and the interplay between these areas and operations research. We are open to both traditional and novel application domains including, but not limited to, advanced manufacturing, supply chains, healthcare, cybersecurity, humanitarian operations, social good, transportation, the environment, and sustainability. The expected rank is assistant professor; however, applicants with outstanding credentials may be considered at the rank of associate professor.

Applicants should submit the following items via Interfolio at apply.interfolio.com/114454

FAMU-FSU Industrial Engineering

The Department of Industrial and Manufacturing Engineering at FAMU-FSU College of Engineering is announcing two faculty positions

- Data Science and Machine Learning with applications to advanced manufacturing at Florida State University.
  Link:
  https://eng.famu.fsu.edu/node/10691
- Data Science in Health Systems
  Link: eng.famu.fsu.edu/node/10686

Mississippi State University

The Department of Industrial and Systems Engineering at Mississippi State University is seeking applicants for two open tenure-track faculty positions at the Assistant, Associate, or Full Professor level. An endowed faculty position will be considered for outstanding applicants at the Full Professor level. While the department is interested in candidates with backgrounds in engineering management, logistics and next generation supply chains, production systems, healthcare and data science/analytics, qualified candidates in all areas of industrial and systems engineering are encouraged to apply and will be considered. The anticipated start date is August 16, 2024. A Ph.D. in Industrial Engineering, or a closely related field, is required. Applicants must have established or have demonstrated the ability to establish an extramurally sponsored research program with results published in refereed journals. Applicants should also have established or have demonstrated the ability to teach undergraduate and graduate level courses, advise undergraduate and graduate students, and provide service to the department, college, university, and profession.
Link:
https://urldefense.com/v3/__http://www.ise.msstate.edu__;!!IKRxdwAv5BmarQ!ePrKpD7XCQxX5B8mzdwpDf04qZA_6BM2EHenxeyY8dcyp8zjxZ67gh4Gp-DZl8tEez9CoqRb5pDqJwdUZLuKMvrK50D0KaYVspg$

Texas Tech University
The Department of Industrial, Manufacturing and Systems Engineering (IMSE) in the Whitacre College of Engineering (WCOE) at Texas Tech University invites applications for multiple full-time, 9-month tenured/tenure-track positions at all ranks to begin in Fall 2024.

The IMSE department is seeking applicants working in all areas, with an emphasis given to those working in Human Factors, Operations Research, or Systems and Engineering Management. Qualified candidates must possess a Ph.D. in Industrial Engineering or a closely related field. Link:
https://urldefense.com/v3/__http://www.depts.ttu.edu/hr/workattexastech/__;!!IKRxdwAv5BmarQ!f6GlKujywg15uFLAsbekAjyc7F_ReBmshL5b4boezrmOsFD8T_3CLZrt1FqcFwRdXezRRaYuC1h7L9n0acGmkouRYWvhtqXeE_M$

University at Buffalo

The Department of Industrial & Systems Engineering (ISE) at the University at Buffalo (UB), State University of New York, invites applications for a tenure-track position at the rank of Assistant Professor, with a start date in August, 2024. The position is open to all areas in **artificial intelligence and machine learning for health, transportation, security, or manufacturing**.

All applications should be submitted to UB Jobs – www.ubjobs.buffalo.edu/postings/45185.

University of Houston

The Department of Industrial Engineering (IE) at the University of Houston invites applications for
the Durga and Sushila Agrawal Industrial Engineering Endowed Professorships at the rank of Full Professor and
the Anuradha and Rani Agrawal Industrial Engineering Endowed Professorship at the rank of Full Professor to
begin Fall 2023. We are looking for strong candidates with a solid methodological background in broad areas in
industrial engineering; Operations Research, Manufacturing, Human Factors and Machine Learning with innovative applications in
Healthcare, Energy, or Complex Systems.

Link: https://uh.edu/human-resources/careers/

University of Iowa

The Department of Industrial and Systems Engineering at the University of Iowa will have a job opening at the rank of assistant professor in the areas of smart health, healthcare human factors, and smart manufacturing.

Link: Please submit your materials by using the University of Iowa online job application system
Link:
http://jobs.uiowa.edu/jobSearch/faculty/
Click on the listings for Tippie College of Business and select requisition #74952.

University of Miami

The College of Engineering, University of Miami (CoE, www.coe.miami.edu/) invites applications for a tenured or tenure-track faculty position. All levels (Assistant, Associate, or Full Professor) will be considered. Candidates are being targeted for a cluster of hires within the CoE in Data Science (with likely appointments in ECE and/or ISE). A limited number of candidates may be considered for a short interview during the INFORMS Annual Meeting. We kindly request that you explicitly state your availability during the INFORMS Annual Meeting in Phoenix within your cover letter. For further information and to initiate the application process, Link: https://umiami.wd1.myworkdayjobs.com/UMFaculty/job/Coral-Gables-FL/CoE---Faculty--Asst-Prof-Assoc-Prof-Professor_R100048536-1

University of Michigan

The Department of Industrial and Operations Engineering (IOE) at the University of Michigan (U-M) invites applications for faculty positions at all levels (assistant, associate, and full professor) for an appointment beginning September 2024. Our department is multidisciplinary, balancing theoretical and methodological research and applied research interests. We are looking for candidates who will excel in an environment where they are committed to excellence in graduate and undergraduate education, establish an independent, externally funded research program in their areas of expertise, and embrace the global outlook, leadership focus, and service commitment that permeates the culture of Michigan Engineering.

Link: apply.interfolio.com/129603

University of Southern California

The University of Southern California invites applications for multiple tenured and tenure-track positions in the Daniel J. Epstein Department of Industrial and Systems Engineering in the USC Viterbi School of Engineering. Appointments can be made at the Assistant Professor, Associate Professor, and/or Professor ranks. Candidates at the senior ranks must have demonstrated research excellence and sustained commitment to the discipline and are expected to have a vibrant research program with external funding. Exceptional senior candidates may be considered for a chaired professorship. The USC Viterbi School is committed to increasing the diversity of our faculty and welcomes applications from women; persons of African, Hispanic and Native American descent; veterans; and persons with disabilities.
Link:
https://urldefense.com/v3/__https://usccareers.usc.edu/job/los-angeles/open-rank-assistant-associate-full-professor-of-industrial-and-systems-engineering/1209/55007781360__;!!IKRxdwAv5BmarQ!dyG5YS_Q0LVWzrMHElFLk6C8E1VWJh0ajwGLlsQgrlGtBye48bszjx2MylYsXWg5rlzNpv-koIrbA7ReWyUSyYu9jCgBHPUHXSo$.

University of South Florida (USF)
Department: Industrial and Management Systems Engineering (IMSE)
Positions: Tenure-track/tenured faculty positions at the Full / Associate / Assistant Professor level for Machine learning, optimization, data analytics, smart city/urban infrastructure (including cybersecurity, healthcare systems, energy, water, transportation, and public health), logistics, manufacturing
Link: https://www.usf.edu/work-at-usf/careers/index.aspx

University of Wisconsin-Madison
Department: Industrial & Systems Engineering
Positions: Faculty opening for advanced manufacturing and industrial artificial intelligence
Link: https://jobs.wisc.edu/jobs/assistant-professor-madison-wisconsin-united-states-8d5ba4d3-b5fd-45e7-9d57-cc07065bc471

Virginia Tech

This is the information about the new tenure-track faculty position in the Grado Dept. of Industrial and Systems Engineering at Virginia Tech. Application deadline is 11/6/2023. Details are attached.

The interested candidates are welcome to contact Dr. Ran Jin (jran5@vt.edu) if you would like to schedule a meeting with ISE faculty during the INFORMS conference (F2F or zoom meeting on 10/15-10/17/2023).

Link: https://mailman.clemson.edu/pipermail/iefac.list/attachments/20230925/97bd9c39/attachment.pdf

Wayne State University

Wayne State University's Department of Industrial and Systems Engineering is actively seeking candidates for a tenure-track faculty position at the assistant professor level. This position's primary focus lies in the domains of Design, Planning, Operations, and Control, particularly within the context of Industry 4.0 and Smart Manufacturing Systems. We are particularly interested in candidates who can contribute to our department's overarching vision, which revolves around the realization of interconnected and autonomous manufacturing systems that will shape the future of industry. Link: https://urldefense.com/v3/__https://hr.wayne.edu/jobs__;!!IKRxdwAv5BmarQ!dccs31l5iNRYy96e7CdJFcLq35AMKf61JALZVXcxayF-trrd0ovz-1PstADEhQaJqwrd6sJc8hZWbu8Lv_sdlpF4cFWfYyoUHyQ$

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