Northwestern ENGINEERING

FROM THE CHAIR / Spring 2024

Dear IEMS family and friends,

As spring ushers in new beginnings, our department has much to celebrate. This school year, our faculty, students, and alumni have showcased their excellence through significant achievements.

Professor **Sanjay Mehrotra** is revolutionizing healthcare decision-making, our students

Industrial Engineering and Management Sciences

are uncovering the operational secrets behind the magic of Disney parks; Professor **Noshir Contractor's** efforts are enhancing global (and outer space) research collaborations; our faculty, students, and alumni are receiving notable recognition, our community's strong presence and accolades at the INFORMS meeting underscored our impact; and we eagerly anticipate the arrival of assistant professor Minshuo Chen this fall.

We also engaged in strategic planning efforts to reinforce our focus and excellence in data science and machine learning to enhance decision-making in intelligent systems. Each of these accomplishments reflects our commitment to advancing knowledge and innovation in industrial engineering and management sciences.

Thank you all for your hard work and dedication. Let's continue to build on our successes and embrace the opportunities that lie ahead.

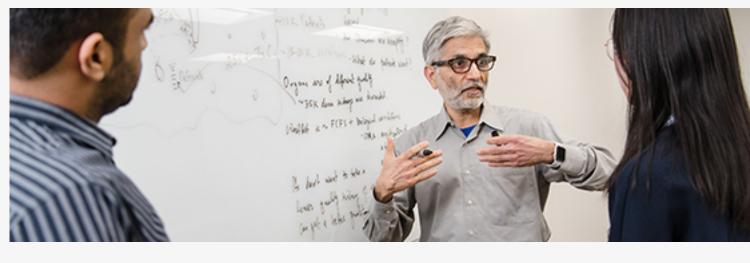
Simge Küçükyavuz



Industrial Engineering and Management Sciences McCormick School of Engineering

David A. and Karen Richards Sachs Professor and Chair

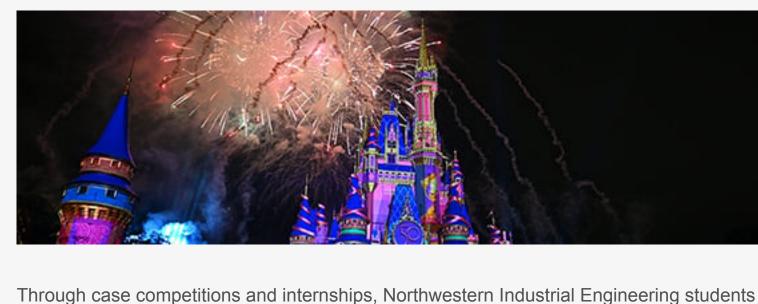
One Northwestern Researcher's Mission to Elevate **Healthcare**



After his own near-death event, Professor Sanjay Mehrotra has devoted the last half of his research career to improving healthcare decision-making through data science and predictive analytics.

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Unlocking the Secrets Behind Disney's Enchantment



learn what it takes to make Disney parks run.

Creating Algorithms to Build International Research

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Teams

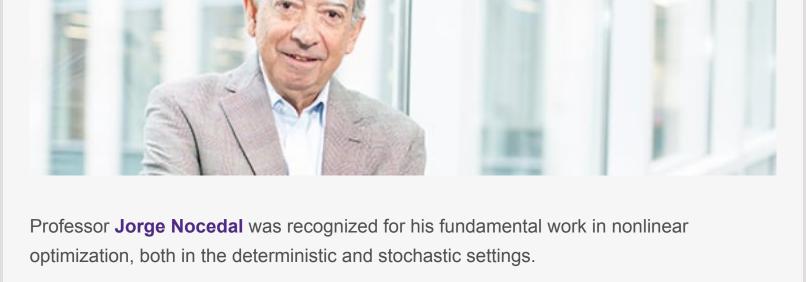




collaborations while prototyping new data science tools for scientific team-building. Read more »

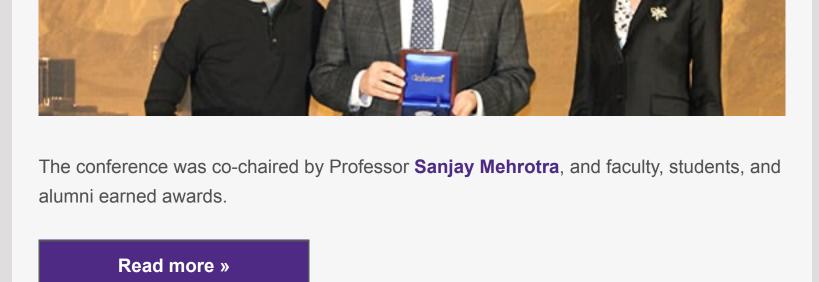
Society for Industrial and Applied Mathematics

Nocedal Awarded John von Neumann Prize by the



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Northwestern IEMS Plays Pivotal Role at INFORMS

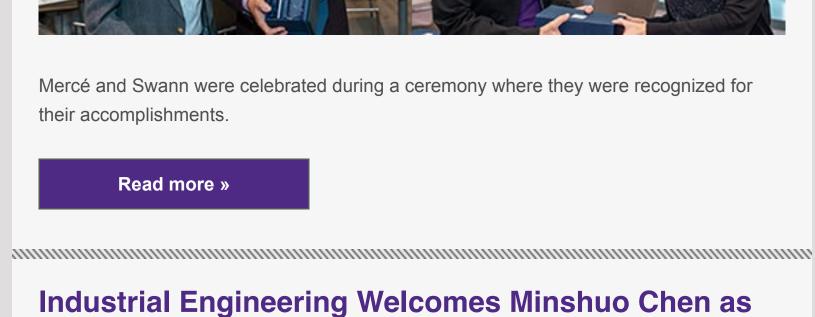


Fernando Mercé, Julie Swann Honored with IEMS

Distinguished Alumni Award

Assistant Professor

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Chen, who earned his PhD from the Georgia Institute of Technology, will join IEMS in the fall.

Professor Emeritus Gordon Hazen received the Clemen-Kleinmuntz Decision Analysis

Best Paper Award for the paper "Information Density in Decision Analysis," published last year in *Decision Analysis*.

pretest data to learning outcomes. Professor Emeritus Barry Nelson and his former postdoctoral fellow David Eckman won the INFORMS Simulation Society Outstanding Publication Award.

Yian Yin (PhD '22), now an assistant professor at Cornell University, won the IEMS department's 2024 Nemhauser Best Dissertation award for his work "Essays on the Science of Science and Innovation."

PhD students Shima Dezfulian and Yuchen Lou were the co-winners of the IEMS department's Nelson Best Paper Award

PhD students Akhil Singla and Xiaochun Niu were the co-winners of the IEMS

IEMS FACTS & FIGURES

department's Nemhauser Best Paper Award.

Research areas from which students can choose

Federal agencies where faculty received grants

Northwestern departments

25

Collaborations with other





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Professor Janice Mejia and undergraduate fourth-year student Jenna Kim received the Best Paper Award at the 2024 American Society for Engineering Education Illinois-Indiana Section Conference. Their paper describes progress on research dedicated to mapping