



## Spring 2023 ISE Newsletter

### *A Message from the Chair*



#### **Dr. Yasser Dessouky**

Similar to other institutions, San José State University has enjoyed the resurgence and vibrance of having students back in person. The campus is full of energy with student engagement across various campus activities. For example, in this newsletter you will read about the newly created lab Behavior, Accessibility, and Technology (BAT) with Dr. Gaojian Huang as lab director. The lab supports many students with funded research projects.

Our faculty and students continue to receive recognitions for their efforts. For example, Dr. Anil Kumar received the 2022 College of Engineering faculty award for excellence in service and Kimberly Martinez won the 2022 Donald Beall Student award for engineering accomplishment. The Industrial and Systems Engineering department was honored to host the Li family for a ribbon cutting ceremony for the Vy and Tim Li named lab on October 13, 2022. Our enrollment continues to grow as the department adds new programs to our curriculum such as the new concentration in User Experience for the MS Human Factors and Ergonomics degree. Our senior design projects continue to be sponsored by a variety of industries that reflect the wide range of our students' employers such as Lockheed Martin, Kaiser, Facebook (Meta), etc. I am also proud to mention that The Charles W. Davidson College of Engineering ranks 3 nationally in US World News rankings among public engineering programs offering bachelor's and master's degrees, excluding service academies. These are few of the many stories below and linked, and we invite you to read our ISE newsletter to find out some of the exciting activities the department is engaging in to support our faculty, students, alumni, and the community in general.

*\*Note that several story extensions can be reached by clicking the links indicated, which will take you to various web pages on the Department's website. Return to the newsletter to continue by going back to your email view, or click now **at the very top of this mailing** to open the newsletter in a new tab on your browser. Then return to that tab to continue reading.*

## The Vy and Timothy Li Laboratory for Industrial and Systems Engineering

### The Ribbon Cutting Ceremony

As announced in the last ISE Department Newsletter, the Department was honored to establish its first named lab, the Vy and Timothy Li Laboratory in recognition of their generous gift to the Department. In celebration of the gift, the College hosted a ribbon cutting ceremony at the doors of the lab on October 13th, 2022. The Li's and their 4 children attended, as well as many faculty, students, and guests.



The Li's and Dr. Freund conduct the ribbon cutting ceremony with an extra large pair of scissors that the College has on hand, just for such occasions.

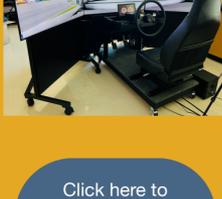
The Li's, who are both 2003 BSISE alums, stated that their naming gift was in honor of Dr. Freund for his "decades of service to the College of Engineering."

Following the ribbon cutting ceremony, the Li children and guests enjoyed a tour of the lab, and particularly focused on the new Omron Hornet robot with its integrated vision system.



See the 2023 Li Lab update here

## The Behavior, Accessibility, and Technology Lab (BAT Lab)



Click here to learn more about the BAT Lab and its projects

According to Dr. Gaojian Huang, Director, the mission of the Behavior, Accessibility, and Technology (BAT) Lab is to develop next-generation human-machine systems that can assist and support humans with technology in a wide range of application domains and to enhance human performance and optimize human well-being. Collaborators and Sponsors of the lab include the National Science Foundation (NSF), Honda Research Institute USA, U.S. Department of Transportation, Mineta Transportation Institute, SJSU Research Foundation, and Charles W. Davidson College of Engineering. Our areas of research:

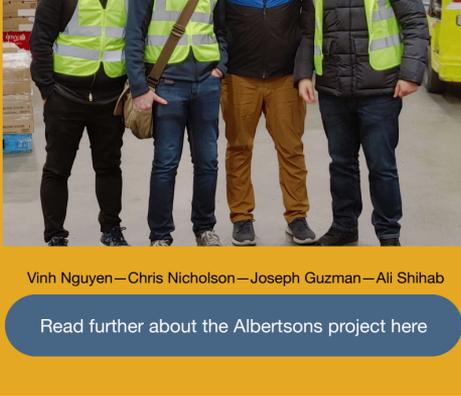
- Human-automation interaction
- Automated driving
- Aging and technology
- Human-machine interface
- Human behavior modeling

## 2022 - 2023 Senior Design Sponsors

Our senior design projects continue to be a highlight of our students' learning experiences. While the COVID pandemic created challenges, our sponsors came through for us. We are deeply grateful to all of the recent sponsors listed below.

Albertsons	Google X	Sanmina
Bay Photo	Infineon	Santa Clara Valley Med Ctr
Chic-fil-A	Lockheed Martin	Stanford Medical Center
Facebook (Meta)	O'Connor Hospital	Varian
	Western Digital	

## Featured Sr. Design Project Sponsor



Vinh Nguyen—Chris Nicholson—Joseph Guzman—Ali Shihab

Read further about the Albertsons project here

The Department is pleased to welcome Albertsons as a Senior Design Project host. A 4 member student team has been working on their project at the Albertsons warehouse in Tracy, CA since last fall. The project is focused on reconfiguring Albertsons warehouse yogurt section by improving their slotting method. As their study has progressed, the team sees an opportunity to reduce a picker's pallet build time by recommending a better picking pattern and has identified other potential improvements as well.

## New Concentration in MS Human Factors *User Experience (UX)*

The purpose of the UX concentration is to provide students with competency in Human Computer Interaction (HCI) and UX through their course work and culminating project and to add a recognizable competency credential in UX on the MSHFE degree certificate.

See more about the User Experience MS Degree here

MS graduate students in the field of HFE pursue competency in three different areas of knowledge:

1. Human mental and physical capabilities and limitations.
2. Measurement of human performance within hardware / software solutions.
3. Design for usability of new products, systems and services.

## Our Faculty Spotlight is on ...

### **Dr. Hongrui Liu**

Assistant Professor

Dr. Hongrui Liu received her MS from SJSU and PhD from University of Washington, both in Industrial and Systems Engineering (ISE). In 2017, after 7 years in the energy management industry, she returned to SJSU's ISE Department as an Assistant Professor. Her primary research interests are optimization modeling, algorithms, data analytics and applications in supply chain and energy industry.



Learn more here

## 2022 College Faculty and Student Awards

Each year, the College of Engineering recognizes outstanding faculty and students for their contributions, excellence and achievements. Two ISE faculty members and one ISE student in the MS in Human Factors/Ergonomics program were among the 2022 awardees. These three winners and their awards are recognized below.



**Dr. Yasser Dessouky**  
*The Newnan Brothers Award for Faculty Excellence*

**Ms. Kimberly Martinez**  
*The Donald Beall Student Award for Engineering Accomplishment*

**Dr. Anil Kumar**  
*The COE Faculty Award for Excellence in Service*

See Kimberly's ISE Gold Page here



## Dr. Tony Andre Named a "Titan of HF/E"

by the Human Factors and Ergonomics Society (HFES)

Dr. Andre joined the ISE faculty in 1992 as an Adjunct Professor of Industrial and Systems Engineering. Over the past 30 years, he has been a great contributor to our Human Factors/Ergonomics MS program, a national leader in the applications of Human Factors principles in health care systems and devices, and has received many professional recognitions and awards. None as prestigious, however, as this newly designed accolade that HFES has created to recognize 17 of the profession's most accomplished members.



[Learn more about the HFES Titans award here](#)

**Click the boxes below to view the Complete lists of 2022 - 2023 ISE faculty publications, presentations, awards, and professional activities...**

...that can be found on separate pages on our Department website. Other [Internal grants and activities of note are reported here](#).

**Click this box to view List of 2022-2023 Refereed Publications and Books**

**Click this box to view List of 2022-2023 Conference Presentations and papers**

**Click this box to view List of 2022-2023 External Grants and Contracts**

## Student Highlights

### Student Awards and Recognitions



**2022 ISE Jindia Scholarship Award**

**Mr. Khaled El Droubi**

Industrial & Systems Engineering

[Learn more](#)



**2022 ISE Newnan Student Excellence Award**

**Ms. Christina Nguyen**

Industrial & Systems Engineering

[Learn more](#)

### Spring/Fall 2022 Graduation Recognitions

The Department was proud to learn of the outstanding academic achievements of the following May, 2021 BSISE graduates:

**Summa Cum Laude** (Above 3.85 GPA): —Jose Luis Alvarez Arreola

**Magna Cum Laude** (Above 3.70 GPA): —Juan Nicolas Herrera Pena —Alec Jaculina —Cam Nhuan Trung Tran

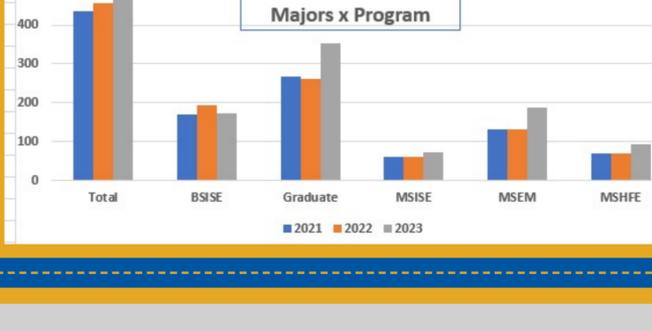
**Cum Laude** (Above 3.5 GPA): —Jeremy Chao — Gary J. Zhang

#### A quick look at the numbers:

ISE registrations in all programs remain strong. Overall enrollment is up over the year by 72 students, with BSISE dropping by 20 students from its 2022 level, and grad programs growing by 92 students.

#### 2023 ISE By the Numbers

- 527 Students including:**
- 173 BSISE
  - 354 Graduate students:
    - 73 MS ISE:
    - 187 MS Engineering Management
    - 94 MS Human Factors/Ergonomics



## Alumni Spotlights

The 2022 Alumni Social was held on the patio at the Mosaic Restaurant and Lounge in San Jose. Over 100 alums of the ISE BS and MS programs attended. Photos courtesy of Mr. Derrick Meyer, College of Engineering Communications Specialist



October 13th, 2022



**Alums:** Were you THERE? Join us next October and have a chance to see YOUR photo in the Next Newsletter!

### In the Department Advisory Committee (DAC)

#### Spotlight:

#### Mr. Chris Constantin

Chris is a 1995 graduate of the ISE BS program, and has pursued a career in city management. He has demonstrated a deep commitment to public service and brought a unique perspective in the application of systems engineering principles to local government organizations. He serves on the ISE Department Advisory Committee because he wants to ensure that the program has greater impact to areas not normally associated with Industrial Engineering – government operations and education.



[See Chris' Gold Pages here](#)

And, in closing, just "one more thing"....

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## The ISE Circle of Friends

Strong partnerships with local companies, our alumni, and professional organizations have all contributed to the growth and successes of the ISE Department. Mentorships, student sponsorships, project and research opportunities, all empower our quest for excellence of our academically challenging programs, our labs, and curriculum content.

To discuss a donation or contribution concept, email the Department Chair at: [Yasser.Dessouky@sjsu.edu](mailto:Yasser.Dessouky@sjsu.edu), or contact the ISE Department office at 408-924-3301.

Send comments and corrections to the Editor:

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