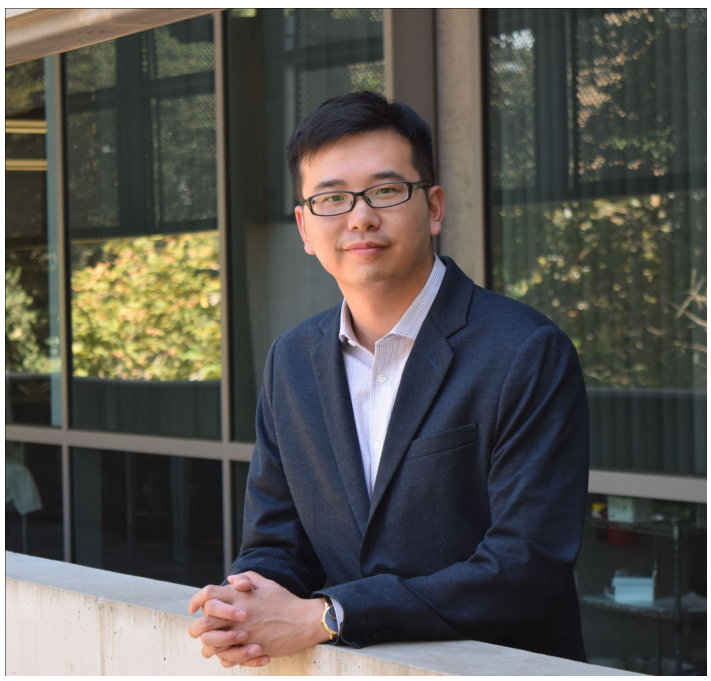
UC RIVERSIDE UNIVERSITY OF CALIFORNIA

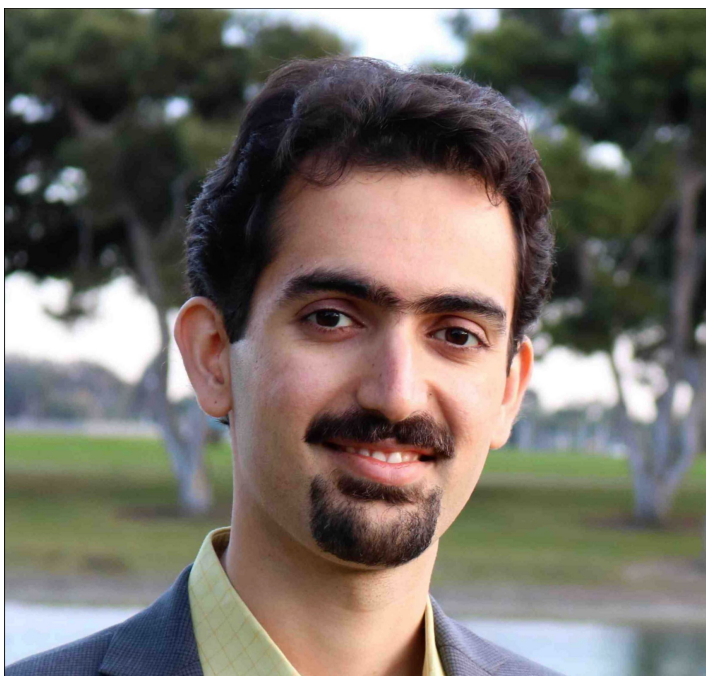
MECHANICAL ENGINEERING

NEWSLETTER #17
Special Issue Summer 2019

Two new faculty strengthen robotics and bioapplication areas



Jun Sheng
Assistant Professor
Ph.D.: Robotics, Georgia Institute of Technology
Research
The Robotics and Medical Systems (RaMS) Laboratory focuses on developing surgical robotics and medical devices through innovative design, advanced fabrication, and automatic control to address fundamental health-related issues



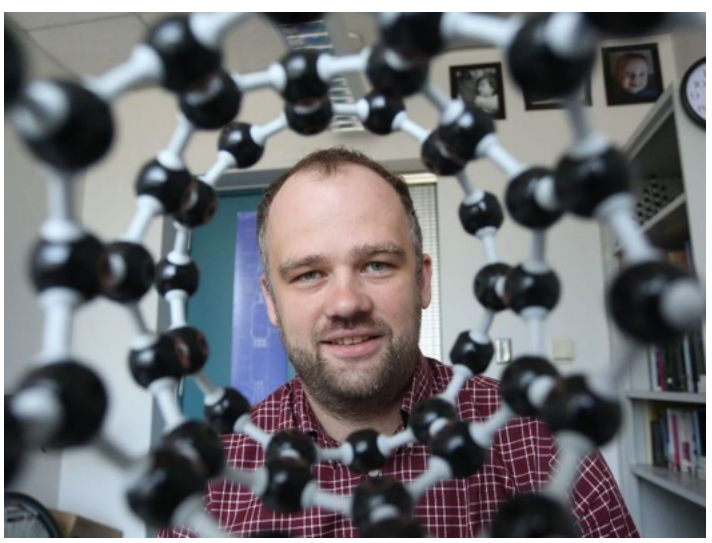
Erfan Nozari
Assistant Professor
Ph.D.: Mechanical Engineering, University of California, San Diego
Research
Nozar's group uses data-driven computational modeling and rigorous mathematical analysis to expand knowledge of the brain's structure-function relationship and improve stimulation techniques for neurocognitive disorders.

EMERGING ENGINEERS

DARPA Young Faculty Award and Two NSF CAREER Awards

Assistant Professor Luat Vuong received the prestigious Defense Advanced Research (DARPA) Young Faculty Award to define new predictive imaging technologies.

Read more



Assistant Professors Richard Wilson and Sinisa Coh were awarded NSF Career Awards. Wilson was recognized for his research on superdiffusive heat

transfer in nanoscale metal multilayers and Coh for his research on materials design using motifs present in the electrons wave function.

The additions of these awards bring the total number of major young investigator awards (YIA) for current and former ME faculty to **23. 16 out of 26** ME faculty have received at least one YIA award.

NEWS

ME Chair Aguilar inducted to Mexico's NAE

The honor recognizes Aguilar's contributions to mechanical and biomedical engineering, particularly in biomedical optics and lasers, and his pioneering work to develop a ceramic "Window to the Brain" in collaboration with colleagues in Mexico.

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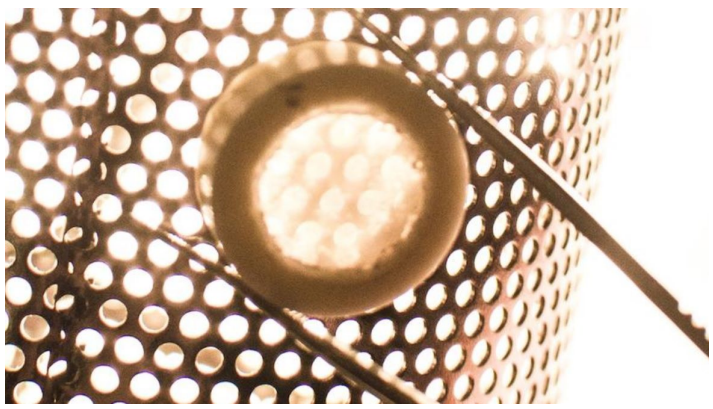
No furnace needed for newly developed ceramic welding technology



Smartphones that don't scratch or shatter. Metal-free pacemakers. These could all be made possible thanks to a new ceramic welding technology developed by the collaborative team lead by UC

Riverside and UC San Diego.

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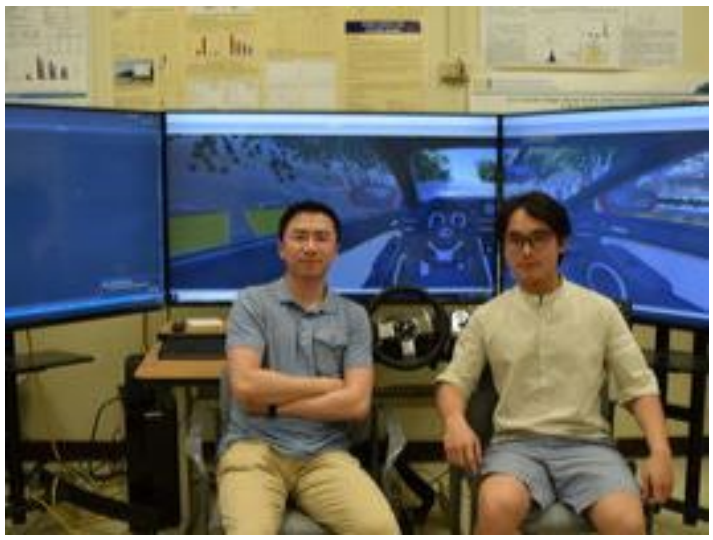
Recent Ph.D. grad's gaming simulation aims to improve air quality



Ziran Wang's immersive driving simulation platform develops a cooperative ramp merging system that reduces traffic congestion and air pollution while increasing safety.

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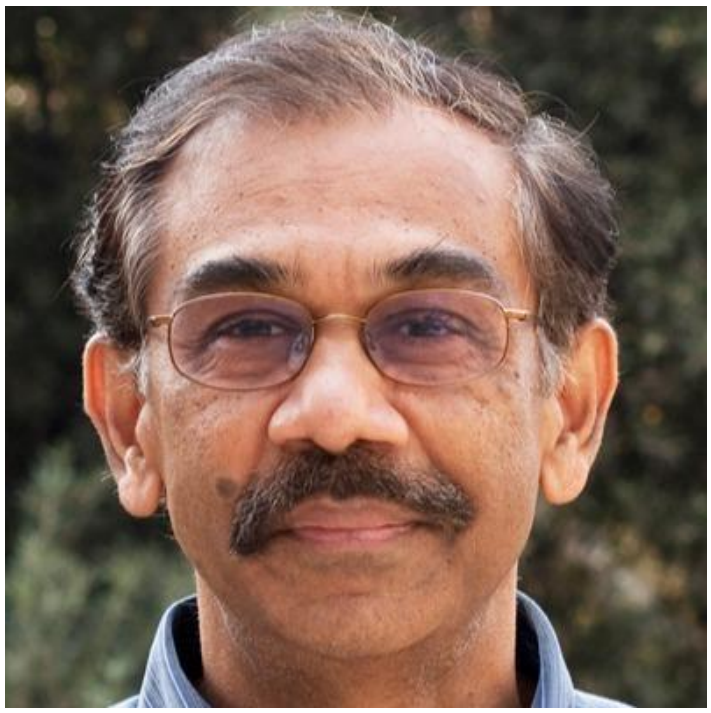
ANNOUNCEMENTS

Honoring Professor Akula Venkatram



Join us in honoring Professor Akula Venkatram's retirement after 26 years of service to UCR's Marlan and Rosemary Bourns College of Engineering. Venkatram's research interests includes urban boundrary layer, micrometerology, urban air quality, and dispersion around obstacles.

Give today