

# THE DEPARTMENT OF ELECTRICAL & COMPUTER ENGINEERING SPEAKER SERIES

**PRESENTS**

## **A Social Network Analysis of EHR-Based Information Processing: Implications for Team Communication and Patient Outcomes**



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**Monday, November 13, 9:55 – 11 am**

**Zoom:** <https://uh-edu-cougarnet.zoom.us/j/9893378254?pwd=NjZnRlBFQXJBNG9mcHFuaEtjUGdydz09>

### **LECTURE ABSTRACT**

Cancer care is routinely delivered by diverse teams of healthcare professionals who engage in complex communication and interactions across care settings. In this study, we developed a patient-centric method to measure information processing networks in cancer care teams caring for breast, colorectal, and non-small cell lung cancer patients using EHR access-log data. We further examined the associations between EHR network structures and patient outcomes including survival time and emergency department visits using a causal mediation analysis framework.

### **SPEAKER BIOSKETCH**

Xi Zhu, PhD, is an Associate Professor and the Paul Torrens Chair in Healthcare Management in the Department of Health Policy and Management at the UCLA Fielding School of Public Health. Dr. Zhu received his PhD in Sociology from the University of Minnesota. His research builds on organization, team, and implementation sciences to identify strategies and approaches for advancing patient care while improving micro and macro healthcare systems.

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