

## Research methods, publishing and reviewing papers in engineering education

### Summary:

This webinar aims to provide directly applicable information as well as pointers to the research methods typically employed in engineering education. The specific focus is on the scholarship of teaching and learning, and how practicing instructors may test new ideas or validate proven pedagogical innovations in their classrooms. The methods outlined, potential pitfalls, and pointers to the resources provided should be useful for both paper writers, as well as reviewers. The webinar will involve participants in activities that immediately apply the principles taught.

### Audience:

Engineering instructors interested in conducting studies and publishing the results of these studies in international journals and conference proceedings + reviewers for these publication avenues.

### Presenters:



**Scotty D. Craig** is an Assistant Professor in the Human Systems Engineering Program within the Fulton Schools of Engineering at Arizona State University. Dr. Craig received his Ph.D. in Experimental Psychology with a focus in Cognitive Psychology from the University of Memphis in the Department of Psychology and a Post-Doctorial Fellowship at the Pittsburgh Science of Learning Center.

His goal is to provide cutting edge research at the intersection of human cognition, technology, and the learning sciences which provides solutions to real world problems within education and training. His current research focuses on improving learning with higher-level cognition factors such as discourse and cognitive affective states through the use of virtual humans within technological environments. More information on Dr. Craig's work can be found at [www.cobaltlab.org](http://www.cobaltlab.org).



**Sohumi Sohoni** received the B.E. degree in Electrical Engineering from Pune University, India, in 1998 and a PhD in Computer Engineering from the University of Cincinnati, Cincinnati, Ohio, in 2004. From 2005 to 2012, he was an Assistant Professor at Oklahoma State University. Since 2012 he has been an Assistant Professor at Arizona State University. He has published peer-reviewed papers in journals such as IEEE Transactions on Computers, the International Journal of Engineering Education, and Advances in Engineering Education, and in conferences including papers in ACM SIGMETRICS, ACM SIGCSE and ASEE's sectional and national conferences. His research is supported through various internal and external funding agencies including the National Science Foundation. His research interests are broadly in the areas of computer architecture and performance analysis, and in engineering and computer science education.

### Proposed Schedule (all times IST):

Seq No	Day	Date	Start Time	End Time
1	Tuesday	June 7 <sup>th</sup>	10:00 am	11:00 am
2	Tuesday	June 14 <sup>th</sup>	10:00 am	11:00 am
3	Tuesday	June 21 <sup>st</sup>	10:00 am	11:00 am
4	Thursday	June 23 <sup>rd</sup>	10:00 am	11:00 am
5	Thursday	July 7 <sup>th</sup>	10:00 am	11:00 am
6	Tuesday	July 19 <sup>th</sup>	10:00 am	11:00 am
7	Tuesday	July 26 <sup>th</sup>	10:00 am	11:00 am
8	Thursday	July 28 <sup>th</sup>	10:00 am	11:00 am