

**The Computer Science Program at CSU Channel Islands presents:**  
**Mining Unstructured Text Online Discussion Data to Understand Group  
Collaboration: Mixed and Multi-Methods Field Study**

**A talk by**

**Dr. Evren Eryilmaz**

**Tuesday, November 9, 2021 6pm – 7pm [Online via Zoom \(link\)](#)**

**Abstract:** The amount of unstructured text data is growing at a tremendous pace. Despite the advances in text mining techniques such as topic modeling, deriving valuable information from unstructured text data remains challenging in many situations. Major concerns associated with topic modeling include: 1) topic modelling, by itself, does not explain text data, only infers to possible topics based on top key words; 2) combining various analytical approaches can help with more detailed explanations of topics and 3) human intervention continues to be necessary for producing context relevant explanations. This talk centers on a mixed a multi-methods field study that combines the analytical efficiency and scalability of topic modeling, social network analysis, and cluster analysis with qualitative content analysis to obtain a comprehensive picture of group collaboration facilitated by the Canvas asynchronous discussion tool in a service-learning class. Theoretical and practical implications will be discussed.

**Evren Eryilmaz, Ph.D.**, is an assistant professor of Management Information Systems and the faculty coordinator of the Center for Small Business at the California State University Sacramento. He earned his Ph.D. in Information Systems and Technology from the Claremont Graduate University. His current research revolves around mining unstructured text data in online collaborative settings. More specifically, he is interested in design science research, persuasive design, business analytics, and big data management. His articles have appeared in publications such as the Journal of the Association for Information Systems, Communications of the Association for Information Systems, AIS Transactions of Human Computer Interaction, Journal of Computer Information Systems, and Education & Information Technologies. He has presented his research at major conferences such as the International Conference on Information Systems (ICIS), the Hawaiian International Conference on System Sciences (HICSS), and the Americas Conference on Information Systems (AMCIS). He received the 2021 Retirees Association Probationary Faculty Award at the California State University Sacramento.