

Workshop on Teamwork Assessment – Effective Peer Evaluation of Teamwork (supported by the National Science Foundation (NSF))

Effective teamwork is an important aspect of value creation in many organizations; appropriately, organizations are looking for potential employees who can work well in a team from the start. This has created the need to introduce activities to build collaboration and teamwork skills in many college curricula. Peer evaluation is one of the best ways to assess the group dynamics of a team project. However, there are a few tools available for facilitating peer evaluations and efficiently compiling information designed to assess one team member compared to the team as a whole. This workshop will first introduce alternative methods for peer evaluations and then demonstrate the Peer Evaluation & Assessment Resource (PEAR), which is a web-based solution that was created to efficiently assess the teamwork skills of students through peer and self-evaluations. PEAR allows instructors to form teams from their student rosters and choose a rubric to assess their teamwork skills, abilities, and contributions. Student peer evaluations have several problems such as very high peer and self-ratings inconsistent with students' expected skill levels. The workshop will also introduce methods to address some of the pitfalls in peer evaluations.

Presented by:



Abdullah Konak is a Professor of Information Sciences and Technology at the Pennsylvania State University Berks. Dr. Konak's current research interest is in the application of Operations Research techniques to complex problems, including such topics as network design, network reliability, facilities design, green logistics, and data mining. Dr. Konak has published papers in leading journals such as *Operations Research Letters*, *Inform Journal on Computing*, *European Journal of Operations Research*, *Computers and Operations Research*, *IIE Transactions*, *IEEE Transactions on Reliability*, *International Journal of Production Research*, and *Production Economics*. He has been a principal investigator in sponsored projects

from the National Science Foundation, the National Security Agency, the US Department of Labor, and Venture Well. Dr. Konak currently teaches courses on Database Management Systems, Information Security, Data Sciences, Agent-Based Modeling, and Technology-based Entrepreneurship. He is a member of IIEE, INFORMS, and IEEE.
(Web: sites.psu.edu/auk3, E-mail: konak@psu.edu)



Sadan Kulturel-Konak is a Professor of Management Information Systems and the director of Creativity, Entrepreneurship and Economic Development (CEED) Center at Penn State Berks. Dr. Kulturel's research interests are in modeling and optimization of complex systems and robustness under uncertainty with applications to facility layout, reliability, and scheduling. She has published her research in numerous journals including *IIE Transactions*, *Operation Research Letters*, *INFORMS Journal on Computing*, *INFORMS Transactions on Education*, *International Journal of Production Research*, *European Journal of Operational Research*, and *Journal of Intelligent Manufacturing Computers*. Dr. Kulturel is a

member of the Institute for Operations Research and the Management Sciences (INFORMS), the Institute of Industrial and Systems Engineers (IIEE) and the American Society for Engineering Education (ASEE). Dr. Kulturel is currently the chair of the ASEE Middle Atlantic Section. She has been a principal investigator in sponsored projects from National Science Foundation (NSF) and VentureWell.

(Web: sites.psu.edu/kulturel, E-mail: sadan@psu.edu)