

Workshop Proposal: Addressing the Publication Review Criteria for the IEEE Transactions on Education

Expected Background Knowledge of Participants

Interest in publishing work on scholarship of engineering education in the fields of electrical engineering, software engineering, computer engineering, computer science and other fields within the scope of the interest of IEEE

Workshop Objectives

Participants will be able to:

- Explain the three areas of scholarship appropriate for the IEEE Transactions on Education
- Select the appropriate area of scholarship for their manuscript submission
- Explain the review criteria for each area of scholarship
- Evaluate the degree to which potential manuscript addresses each of the review criteria

Facilitator Qualifications

Jeffrey E. Froyd has served as the Editor-in-Chief of the IEEE Transactions on Education since September 2012. Dr. Jeffrey E. Froyd received the B.S. degree in mathematics from Rose-Hulman Institute of Technology and the M.S. and Ph.D. degrees in electrical engineering from the University of Minnesota, Minneapolis. He is a TEES Research Professor in the Office of Engineering Academic and Student Affairs at Texas A&M University, College Station. He has authored over 70 papers and offered over 30 workshops on faculty development, curricular change, curriculum redesign, and assessment. He has served as a program co-chair for three Frontiers in Education Conferences and the general chair for the 2009 conference. Prof. Froyd is a Fellow of the IEEE, a Fellow of the American Society for Engineering Education (ASEE), an ABET Program Evaluator, the Editor-in-Chief for the IEEE Transactions on Education, a Senior Associate Editor for the Journal of Engineering Education, and an Associate Editor for the International Journal of STEM Education.

Workshop/Tutorial Activities

The review criteria for the IEEE Transactions on Education have been published (<http://sites.ieee.org/review-criteria-toe/>). The goal of the workshop is to help participants understand and address the review criteria.

Part 1: Areas of Scholarship

Objectives: Participants will be able to:

- Explain the three areas of scholarship appropriate for the IEEE Transactions on Education
- Select the appropriate area of scholarship for their manuscript submission

Presentation: Brief descriptions of the three areas of scholarship will be presented.

Participant Activity: Abstracts of manuscripts will be shared with participants. Participants will be asked to select the appropriate area of scholarship for each manuscript. Decisions by the participants will be compared and criteria for selecting the appropriate area of scholarship will be discussed.

Part 2: Review Criteria for the Scholarship of Application, Integration, and Discovery

Objectives: Participants will be able to:

- Explain the review criteria for the each area of scholarship: application, integration, and discovery
- Evaluate the degree to which potential manuscripts addresses each of the review criteria for each area of scholarship

Presentation: Brief descriptions of the review criteria for the each of the three areas of scholarship will be presented.

Participant Activity: Examples from manuscripts will be shared with participants. Participants will be asked to evaluate the degree to which the examples manuscript addresses selected review criteria. Interaction with participants is encouraged. Questions will be cultivated.

Special Requests

Time Period: To provide time for participants to engage in the interactive activities envisioned in the workshop, a three-hour time period is requested.