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Dear Plcc Alliance,

Dr. Si Wen will be presenting on **Friday, July 16, at 11AM EDT** during a special topics meeting to present her recent work in the statistical analysis of reader studies. The presentation is open to all members who are interested in the topic. Please find the information to join the Zoom meeting for her presentation and a following discussion below.

Title: Quantitative Agreement Analysis for HTT Pilot Study Data

Abstract: Computational algorithms have been applied to support many medical and clinical tasks. For some of the clinical tasks, such as evaluating stromal tumor-infiltrating lymphocytes (sTILs) in a whole slide image, there are no ground truth reference values. In this work, we collect quantitative reference values from pathologists. To validate the effectiveness of the algorithms, we are exploring the use of agreement analysis, such as limits of agreement (LOA), to assess the closeness between the algorithm results and reference values

quantitatively. The inter-reader variability is introduced into the agreement analysis when multiple pathologists/readers are involved in generating the reference values for each case. To decompose the total variation in the data, we use the random effects ANOVA model. The decomposed reader and case variance components are used to estimate LOA and the variance, so that this agreement analysis takes both the reader and case variability into consideration. The between-reader agreement among the pathologists can also be analyzed by the ANOVA, which can in turn be linked to the intraclass correlation coefficient (ICC). We will use the HTT pilot study data to present the analytical result.

Add event to calendar



Link to Zoom meeting credentials

Please reach out to digipathalliance@gmail.com with any questions.



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