

Evaluating Evaluation Measures, Evaluating Information Access Systems, Designing and Constructing Test Collections, and Evaluating Again

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ABSTRACT

I plan to cover the following topics in this tutorial:

- (1) Why is (offline) evaluation important?
- (2) On a few evaluation measures used at NTCIR
- (3) How should we choose the evaluation measures?
- (4) How should we design and build a test collection?
- (5) How should we ensure the quality of the gold data?
- (6) How should we report the results?
- (7) Quantifying reproducibility and progress
- (8) Summary

BIOGRAPHY

Tetsuya Sakai is a professor at the Department of Computer Science and Engineering, Waseda University, Japan. He is also a General Research Advisor of Naver Corporation, Korea (2021-), and a visiting professor at the National Institute of Informatics, Japan (2015-). He joined Toshiba in 1993 and obtained a Ph.D from Waseda in 2000. From 2000 to 2001, he was supervised by the late Karen Sparck Jones at the Computer Laboratory, University of Cambridge, as a visiting researcher. In 2007, he joined NewsWatch, Inc. as the director of the Natural Language Processing Lab. In 2009, he joined Microsoft Research Asia. He joined the Waseda faculty in 2013. He was Associate Dean (IT Strategies Division) from 2015 to 2017, and Department Head from 2017 to 2019. He is an ACM distinguished member, and a senior associate editor of ACM TOIS.