

1154-00-1116 **Richard Zanibbi*** (rxzvcs@rit.edu) and **Anurag Agarwal** (axasma@rit.edu). *Math-Aware Search: A Progress Report from the MathSeer Project.*

This talk gives an overview of the MathSeer project. We want the general public to be able to quickly lookup unfamiliar math symbols and see how formulas and mathematical concepts are defined, used, and analyzed in online resources such as Wikipedia, Math StackExchange, and CiteSeerX. This talk will summarize our progress to date, including: (1) a novel search interface with a formula editor that supports images, handwriting, and LaTeX, (2) new techniques for indexing and retrieving mathematical formulas in symbolic representations and images, (3) a study of current math search behaviors in regular search engines from query logs, and (4) new tools for extracting symbols and formulas from documents in PDF format.

This is joint work by faculty and students at RIT, Penn State University, and the University of Maryland, College Park, supported by the National Science Foundation (USA) and the Alfred P. Sloan Foundation. MathSeer web page: <https://www.cs.rit.edu/~dprl/mathseer> (Received September 13, 2019)