

## The Seminars on “Information Technology Outlook” - PhD Program in Computer Science and Mathematics



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### Studying and Supporting Developers’ Online Information Seeking

#### Abstract

To support their code development and maintenance activities, programmers spend up to 30% of their time seeking information and reusable code online. In their search for knowledge, they consult various types of sources, including StackOverflow, video tutorials, official documentation, community chats, and AI tools like ChatGPT. In this talk, I will present our research on developers’ online information-seeking behavior and examine how it has evolved with the rise of large language models. Additionally, I will introduce our work on supporting developers in their search for information, specifically focusing on our research in analyzing, extracting, and leveraging information from video tutorials, which are among the most popular online resources among developers.

#### Bio

Sonia Haiduc is a Professor in the Department of Computer Science at Florida State University, USA. Her research interests are in software maintenance and evolution, mining software repositories, and informal software documentation. She is a recipient of the IEEE TCSE Rising Star Award, the NSF Career Award, two Most Influential Paper Awards, and two IEEE Distinguished Paper Awards among other research accolades. She has also received teaching and service awards and has served the software engineering community in many organizational and reviewing roles, including as Area Chair for ICSE 2022, PC chair for MSR 2019 and ICPC 2022, and General Chair for ICSME 2023.