FW-HTF-P 1928549: Building Research Capacity by Technological Interventions in Support of Mixed-Ability Workplaces

PIs: Francesco Cafaro, Erin Brady; School of Informatics and Computing, Indiana University; fcafaro@iu.edu; brady@iupui.edu

Overarching Aim. Building research capacity to explore opportunities and challenges of **mixed-ability** collaborations and to design **tangible user interfaces** that support this type of workplace.
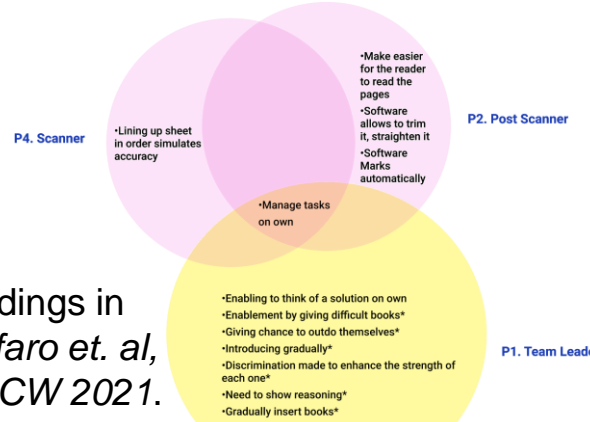
Future Work

Conducted a week of contextual inquiry at a mixed-ability library in Italy served by two staffing organizations.

Future Workers

Used methods from grounded theory to identify different mental patterns used by neurodiverse and neurotypical workers to understand tasks and work practices.

Findings in *Cafaro et. al, CSCW 2021*.

P4. Scanner
•Lining up sheet in order simulates accuracy

P2. Post Scanner
•Make easier for the reader to read the pages
•Software allows to trim it, straighten it
•Software Marks automatically

•Manage tasks on own

P1. Team Leader
•Enabling to think of a solution on own
•Enablement by giving difficult books*
•Giving chance to outdo themselves*
•Introducing gradually*
•Discrimination made to enhance the strength of each one*
•Need to show reasoning*
•Gradually insert books*

Future Technology

Devised conceptual designs and identified opportunities for the design of tangible user interfaces that facilitate mixed-ability collaborations.

Next Step. With our larger project team (Patricia Herzog, *IUPUI*; Karen Jacobs, *Boston University*; Yunyu Xiao, *Cornell Weill*), we are hosting an online **workshop** (August 26, 2022) that will bring together:

- People with Disabilities
- Tech Groups and Assistive Technology Associations
- Disability Advocacy Groups and Networks
- Philanthropic Foundations and Grantmakers
- Nonprofit Service Providers, disability-led, with a focus on work accessibility
- University Centers and Institutes with a focus on accessibility and disability