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A CTA-DCD Model to Determine Design Requirements for Technology to Support People with Mild Cognitive Impairment / Dementia at Work

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Abstract

Work is an integral and meaningful part of many peoples lives. Research has shown that the consequences of MCI and dementia (MCI/dem) before the age of sixty-five can profoundly affect a persons vocational situation. Technology plays a significant role in supporting different abilities for people with MCI/dem at communities and home; however, there is little research to investigate the role of technology and address the technological requirements of people with MCI/dem at work who are employed. We propose a new systematic human factors model to study peoples tasks, activities, and requirements derived from in-depth interviews with six people living with MCI/dem and one caregiver. By characterizing the barriers or problems faced by people with MCI/dem in the context of cognitive work, we organized individual barriers of the participants in terms of macrocognitive activities and cognitive support requirements.