

Coping, Hacking, and DIY: Reframing the Accessibility of Interactions with Television for People with Motor Impairments

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ABSTRACT

We conduct an examination of the accessibility challenges experienced by people with upper body motor impairments when interacting with television. We report findings from a study with N=41 people with motor impairments (spinal cord injury, cerebral palsy, muscular dystrophy) and document their challenges and coping strategies for using the TV remote control, but also their television watching experience and expectations of suitable assistive technology for television. Our results show that, despite several accessible remote control products available on the market, the majority of our participants preferred to DIY and hack, and to adopt coping strategies to be able to use conventional TV remote controls. We contrast their experience against that of a control group with N=41 people without impairments. We reflect about the DIY culture and people with motor impairments, and we propose future work directions to increase the accessibility of interactions with television.

CCS CONCEPTS

• Human-centered computing → Accessibility technologies.

KEYWORDS

Motor impairments; Television; Remote control; Study; Television experience; DIY; Coping strategies.

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1 INTRODUCTION

Watching television is an activity enjoyed by millions of people each day, mediated by one of the most ubiquitous input device worldwide, the TV remote control. Using the TV remote is so straightforward that people pay attention to it only when it turns out lost, the batteries need replacing, or the remote is in the temporary possession of someone else controlling it [9,29,95]. Despite recent innovations in



Figure 1: Using the TV remote control is a challenging task for people with upper body motor impairments. In this photo, a person with Spinal Cord Injury (SCI) at vertebrae C₅-C₆ presses a button on a conventional TV remote control.

interacting with television using voice [6,39], gestures [69,71,88,92], apps on smartphones [8], wearables [72,93], room-level motion tracking systems [76], AR devices [78], and on-skin input [26], the TV remote control is still prevalent and very actual.

However, using the remote control can be a challenging task for people with upper body motor impairments, for which the “simple” actions of reaching for the remote control, grabbing it, holding the remote in a stable position with a firm grasp, pointing it in the direction of the TV, reaching for the intended button to press, and exerting pressure to press buttons can be exhausting, if not impossible at all. Figure 1 shows a person with Spinal Cord Injury (SCI) located at vertebrae C₅-C₆ operating a conventional TV remote control. Notice the grip style, the need for two hands to hold the remote control and to reach for the button, and the way the button is pressed by exerting pressure using the lateral side of the thumb, an action leveraged by the movement of the upper arm and the weight of the hand.

Despite such accessibility problems and the large body of work on assistive input for people with motor impairments for a variety of

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Coping With Television

Tony Silvia, Nancy F. Kaplan



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