



Child–computer interaction

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Child–Computer Interaction (CCI) is an area of scientific investigation that concerns the phenomena surrounding the interaction between children and computational and communication technologies. It combines inputs and perspectives from multiple scientific disciplines informing and supporting an area of research and industrial practice that concerns the design of interactive systems for children. In 2011, Read and Bekker [1] referred to CCI as the “study of the Activities, Behaviours, Concerns and Abilities of Children as they interact with computer technologies, often with the intervention of others (mainly adults) in situations that they partially (but generally do not fully) control and regulate”. The children of interest in CCI are primarily aged between five and twelve but the community reaches out in both directions with toddlers and teenagers being increasingly considered in academic work [1–4].

Whilst being multidisciplinary, (incorporating psychology, and especially developmental psychology, learning sciences, product and interaction design, computer science, media studies, and game design), and with having authors publishing in all these venues and taking a range of research approaches, CCI takes most of its inspiration from Human–Computer Interaction (HCI). HCI is similarly multidisciplinary, and itself is constantly changing and thus the allegiance seems very natural. HCI initially emerged from the ergonomics and socio-technical research agendas and started as a subfield of computer science but has since incorporated inputs from multiple fields including cognitive science, social psychology, linguistics, etc. The increasing penetration of computing in the 70’s and 80’s that shifted from research labs to people’s offices and homes, meant that computers were not to be operated by specially trained personnel but by all and thus emphasis changed towards the need to understand how to design systems that were easy to learn, use, and maintain—key aspects of what came to be known as usability [5]. In more recent times, the initial focus on usability of a computationally enabled artefact has been gradually subsumed by a range of more refined and specialised theoretical constructs and pertinent design concerns relating to the different ways technology can serve people, e.g. for entertainment [6],

communication [7], commerce [8], education [9], etc. Concepts of interest to this community include for example, trust in online systems [10], perceptions of privacy and the nature of privacy needs in a networked world [11], and the hedonic aspects of using products and emerging user experience [12,13]. This trend towards diversity of uses, use contexts and purposes and the need to develop more specialised theoretical apparatus and design knowledge means also that special attention needs to be paid to segments of the population who were initially not considered but are now acquiring a growing importance as users of computational and communication technologies.

Children are one of these user groups. Children now grow up immersed in technology to a level that keeps surprising earlier generations, but which, to them, is simply an inherent element of their habitat. Although this immersion is largely dependent on wealth and circumstance, it is certainly the case that children are frequently users and increasingly owners of personal computers, game consoles, personal music technologies and mobile phones [14]. More than ever before, technology manufacturers and service providers are turning their attention to children as a growing market segment. Even more important, societies are becoming concerned to ensure that appropriate products and services, namely those that can support development and enhance well-being, are being made available for children. Whatever motivates the design of interactive technology for children, it is clear that there is an urgent and present need for research in the design of interactive products for children, related methodology, as well as a scientific account of the interaction between children and technology.

The remainder of this paper is delivered in two sections. The first section outlines Child–Computer Interaction as it currently is by looking back to its beginnings, by identifying its three overarching concerns and then by providing a snapshot of current research foci. The following section looks forward by considering where CCI could, and perhaps should, go. In this section some of the current gaps and emerging themes are identified before it closes with some key challenges for the CCI community of researchers and practitioners.

1. What is CCI?

We shall not attempt to trace the first scientific studies of technology use by children or the first reports of designing and

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