Vision Science and Technology in Human Computer Interaction Systems

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Message from the Guest Editors

Vision is the predominant human sense, in terms of accuracy and reliability. Through it we extract contactless information from the outer world, we build cognitive models, we develop spatial relationships, we learn situations, and we even exploit our eyes to communicate intentions or goals with our interaction counterparts in shared workspaces. On the artificial side, theoretical and computational advances in vision technology have reached levels of reliability. Current interaction systems have greatly benefitted from the inclusion of advanced sensing and computing capabilities that are adapted to how humans perceive and interact with the real world. HMI has now reached a level of maturity to go even one step further: to extend the boundaries of human–machine engagement from the focus of attention to the periphery of our senses, fulfilling the true interaction potential in a shared space.

The goal of this Special Issue is to collect contributions that demonstrate how evidence from vision science coupled with vision-based technology can extend, adapt, and smooth users' experience of HCI.

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Special Issue

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Message from the Editor-in-Chief

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