

Human-Computer Interaction

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Recent advances in miniaturized sensors, novel display technologies, and more powerful computational processing have enabled researchers and engineers to demonstrate ever more sophisticated forms of user interactions with machines. Although the broad scope of this field precludes a comprehensive survey, this session outlines several recent advances in HCI in both interaction modalities and application areas.

There are many sensing capabilities available to machines: vision, speech, touch, and vestibular are several examples. The speakers in this session will discuss recent advances in sensing and processing these forms of input and output. Recent advances in HCI have also been incorporated into many new applications. This session will demonstrate the new uses of HCI technologies in industry and art, including new forms of multimedia and entertainment.

