Special Issue

New Insights into Human-Computer Interaction

Message from the Guest Editors

The computer is an advanced tool that models and simulates the complex real world. Such a matching between reality and this virtual model requires humans to interact in a natural way with both. Processing resources are ubiquitous, and user interaction can be achieved through a variety of channels of language, graphics, voice, gestures, and sensors. The element of human interaction, when inserted into the processing loop, allows the combination of high-performance computation with the analytical capacity of the human brain. Moreover, interaction with the virtual model offers new and interesting features, such as time extension and compression, multidimensional space exploration, various and repeated simulations, visual analysis, and assisted strategies and convergence towards the optimal solution.

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As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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