The Latest Breakthroughs in Human-Computer Interaction: HCI International 2020 Late Breaking Posters

Human-Computer Interaction (HCI) has rapidly evolved over the years, enhancing the way we interact with technologies. To bring together researchers, practitioners, and enthusiasts in this field, the HCI International conference is back with its Late Breaking Posters, showcasing cutting-edge projects, novel ideas, and groundbreaking research. This article dives into the highlights of the HCI International 2020 Late Breaking Posters, revealing the newest advancements in HCI that will shape our future interactions.
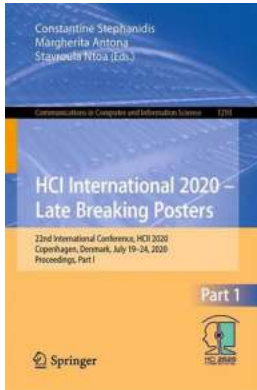
What is HCI International?

HCI International is an interdisciplinary conference that focuses on the design, development, and evaluation of user-friendly computer systems and interfaces. It covers various aspects of human-computer interaction, including usability, user experience, human factors, and cognitive ergonomics.

Exploring the Late Breaking Posters

The Late Breaking Posters session at HCI International 2020 showcased a diverse selection of research projects from around the globe. These posters offered attendees a glimpse into the latest developments in HCI, presenting innovative concepts and real-world applications. Below are some noteworthy posters that caught our attention:

HCI International 2020 – Late Breaking Posters: 22nd International Conference, HCII 2020, Copenhagen, Denmark, July 19–24, 2020,

Proceedings, Part II (Communications ... Computer and Information Science Book 1294)

by Hubert Klimko (1st ed. 2020 Edition, Kindle Edition)

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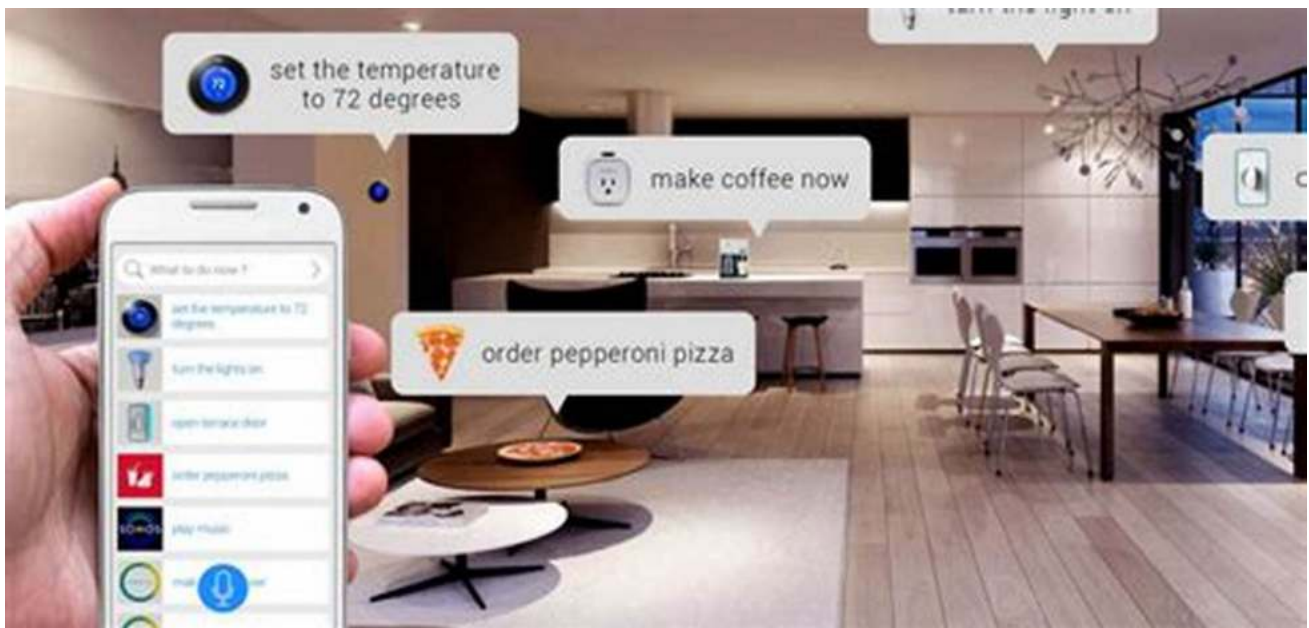|	
Language	: English
File size	: 61827 KB
Text-to-Speech	: Enabled
Screen Reader	: Supported
Enhanced typesetting	: Enabled
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Paperback	: 132 pages
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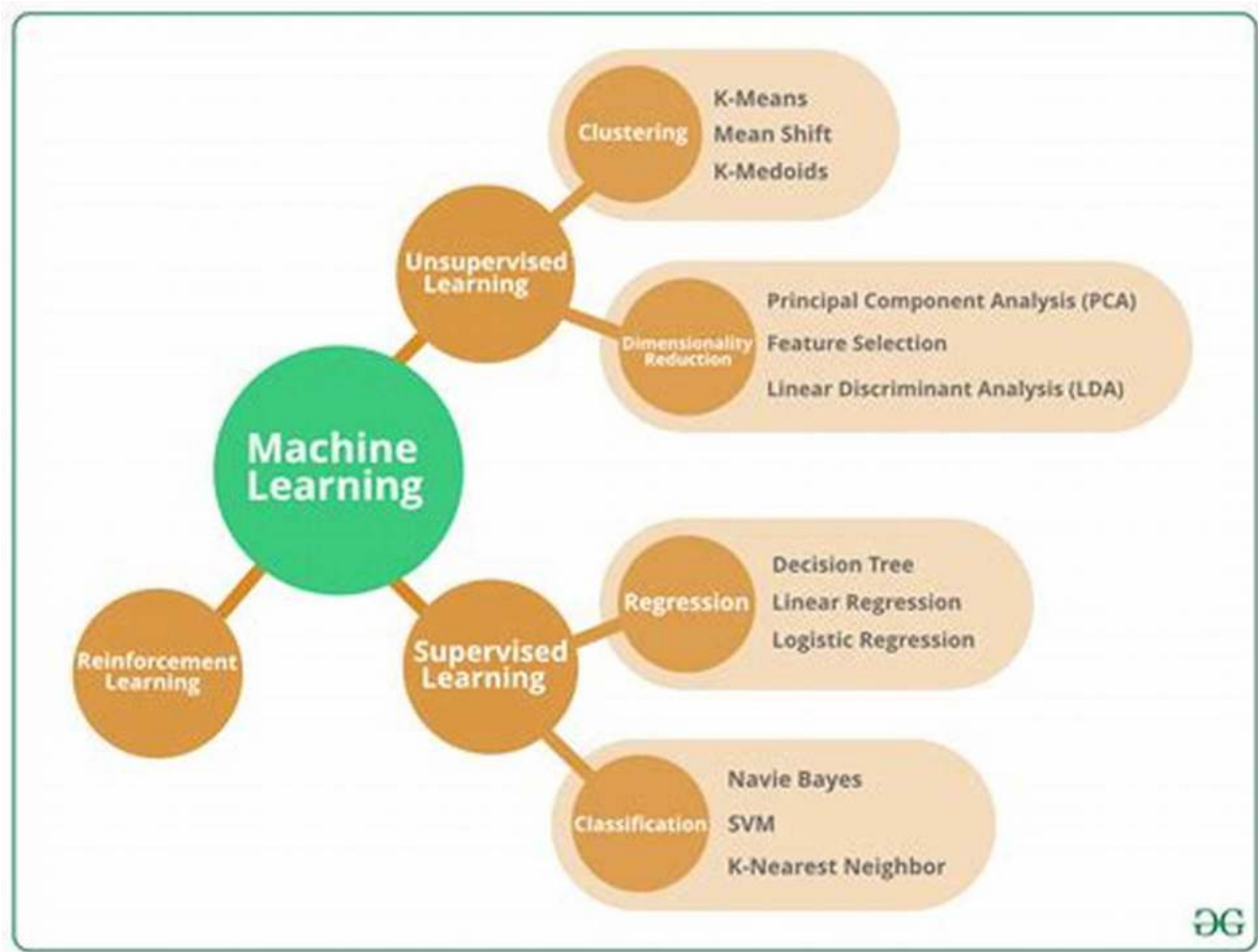## 1. "Enhancing Virtual Reality Experiences with Haptic Feedback"

Virtual reality (VR) has gained immense popularity, but the lack of physical sensations can sometimes limit the level of immersion. This poster explored the integration of haptic feedback technologies to enhance VR experiences. The researchers showcased a prototype system that provided users with realistic touch sensations, enabling them to feel objects and textures within virtual environments.

2. "Improving Accessibility: Voice-Controlled Interfaces for Smart Homes"

Smart homes are becoming the new norm, but not everyone can fully benefit from their features. In this poster, researchers presented their work on implementing voice-controlled interfaces for smart homes to improve accessibility. Users could operate devices, adjust settings, and perform various tasks solely through voice commands, making smart homes more inclusive for individuals with physical disabilities or impairments.

3. "Utilizing Machine Learning to Predict User Preferences"

Personalized recommendations have proven to be invaluable in various applications, such as e-commerce and content streaming. This poster showcased a machine learning approach to predict user preferences based on historical data. The researchers developed an algorithm that analyzed user behaviors, preferences, and interactions to generate tailored recommendations, leading to improved user satisfaction and engagement.

4. "A Novel Approach to Enhance Attention Management in Multitasking Environments"
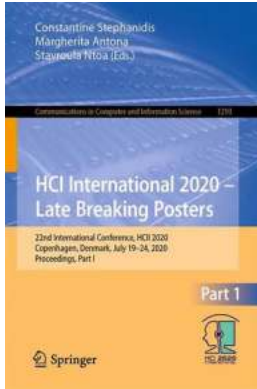
In today's fast-paced world, multitasking is a common practice, but it often leads to distractions and reduced productivity. This poster introduced a novel approach to enhance attention management in multitasking environments. The researchers proposed a system that intelligently detected task priorities, dynamically adjusted notifications, and optimized display configurations, allowing users to maintain focus and improve overall multitasking efficiency.

The HCI International 2020 Late Breaking Posters session provided a captivating glimpse into the future of human-computer interaction. The showcased projects emphasized the ongoing efforts to make technology more intuitive, accessible, and tailored to individual preferences. With advancements in haptic feedback, voice-controlled interfaces, machine learning, and attention management, our interactions with computers will continue to evolve, creating more seamless and immersive experiences.

As the field of HCI advances, conferences like HCI International play a pivotal role in bringing together experts and enthusiasts to share their knowledge and

inspire further innovation. The Late Breaking Posters session remains a significant platform for researchers to present their late-breaking work, paving the way for exciting developments that will shape the future of interaction design.

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This book constitutes the extended abstracts of the posters presented during the 22nd International Conference on Human-Computer Interaction, HCII 2020, which was held in July 2020. The conference was planned to take place in Copenhagen, Denmark, but had to change to a virtual conference mode due to the COVID-19 pandemic.

From a total of 6326 submissions, a total of 1439 papers and 238 posters have been accepted for publication in the HCII 2020 proceedings before the conference took place. In addition, a total of 333 papers and 144 posters are
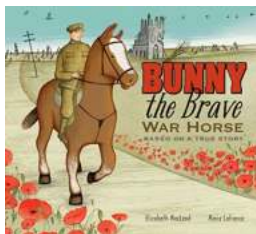
included in the volumes of the proceedings published after the conference as "Late Breaking Work" (papers and posters). These contributions address the latest research and development efforts in the field and highlight the human aspects of design and use of computing systems.

The 82 papers presented in this volume are organized in topical sections as follows: design for all and sssisitive technologies; virtual, augmented and mixed reality; learning; HCI, culture and art; health and wellbeing applications; HCI in mobility, automotive and aviation.
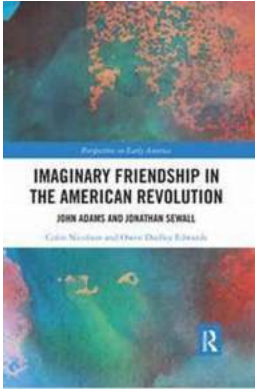
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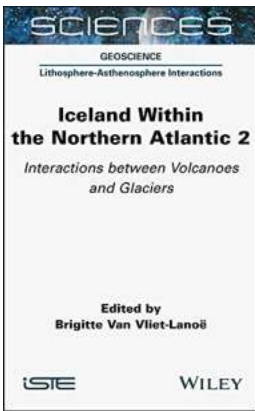
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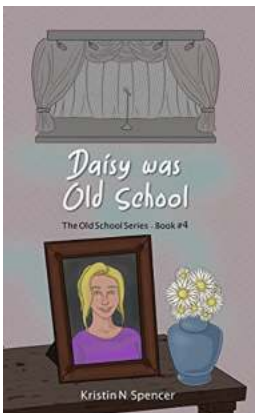
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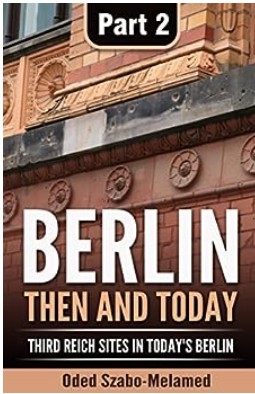
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