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A. Mallik, S. Chaudhury, V. Chandru, S. Srinivasan (Eds.)

Digital Hampi: Preserving Indian Cultural Heritage

- Presents a set of advanced scientific techniques and technologies developed for the digital archiving and preservation of tangible and intangible cultural heritage
- Provides hands-on information for the development of hardware and software to build tools and applications in the areas of image processing, computer vision, 3D modeling and reconstruction, haptic and visual rendering, virtual walk-throughs, and ontology-based multimedia access
- Showcases multimedia applications in the domain of cultural heritage preservation

The book represents the culmination of a hugely successful heritage preservation project initiated by the Government of India's Department of Science and Technology. It presents extensive research on the digital preservation of the history, mythology, art, architecture and culture of the world heritage site Hampi in Karnataka, the seat of the Vijayanagara dynasty in medieval India. Further, the book introduces readers to a range of techniques developed by Indian technical research groups for digitally preserving both the tangible and intangible cultural heritage of the region. These techniques are sufficiently generic to be applied in heritage preservation efforts for other historical sites around the world as well. Technological advances have made it possible to not only create digital archives of these heritage artifacts, but to also share these resources for people to view, explore, experience, and analyze. This book showcases how cutting-edge technology can be combined with cultural and historical research to digitize and preserve heritage. It is the consolidation of work conducted under the Indian Digital Heritage project, a unique initiative of the Department of Science & Technology (DST), Government of India.

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