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Intelligent Image Processing

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Abstract
Facing 600th anniversary of Gutenberg's birth in 2000 A.D., we should look back the historical significance of letterpress technology and take a step forward into new age of digital imaging. Now imaging technology plays a leading role in visual communication, but meets severe assessment to satisfy human vision. Not only advances in high precision and high definition digital media, but also "Intelligent Image Processing" technologies will be necessary for more aesthetic and pleasant imaging. Collaboration with human vision software and development in content-based algorithm are expected to advance the next generation color imaging technology for multi-media. This paper introduces four challengeable topics on "Adaptive Image Sharpening", "Retinex-based Appearance Improvement", "Bi-deirectional Gamut Mapping", and "Scene-referred Pleasant Color Reproduction".

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