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Introduction

Over the last decade the Image Quality and System Performance (IQSP) conference has covered a wide range of topics, relating to the evaluation of imaging system performance, the definition of the perceived image quality and often the interrelationship between them. The perceived quality of images is of crucial importance in visual arts, as well as in commercial, scientific and entertaining application environments. Developments in display technologies, digital printing, imaging sensors, image processing and 3D imaging are enabling new, or enhanced possibilities for creating and conveying visual content that informs or entertains. Wireless networks and mobile devices expand the ways to share imagery.

Following the tradition of the ten previous volumes of the IQSP conference, Volume XI includes again research brought by industrial and academic engineers and scientists, who strive to understand how humans judge images, how to quantify image quality, what makes high quality imagery and how to assess the requirements and performance of modern imaging systems. It comprises peer-reviewed contributions, discussing research and applications throughout the imaging chain on: the methodologies and standards for quantifying perceptual quality and imaging performance; the evaluation of captured, compressed, displayed and print quality; objective and subjective video quality evaluation; 3D image quality.

We hope Volume XI is a useful reference to all those interested in present-day research on image quality and imaging system performance.

Sophie Triantaphillidou
Mohamed-Chaker Larabi