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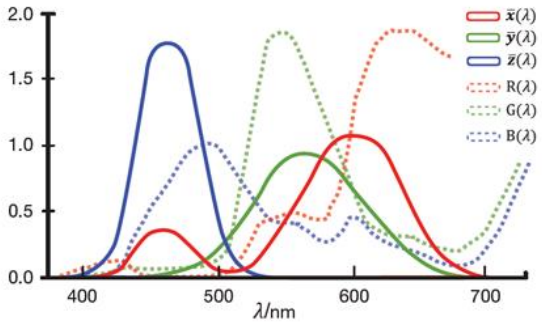
Radiant Presents Study of Tristimulus and Bayer Pattern Color Filter Accuracy for Display Measurement at electronic displays Conference 2020



REDMOND, Wash. – February 12, 2020 — Radiant Vision Systems, a leading provider of photometric imaging solutions for light and display measurement, announces that it will present at the electronic displays Conference (edC) 2020 at NürnbergMesse in Nuremberg, Germany. Jens Jørgen Jensen, Vice President of Product Development at Radiant, will present "Evaluating Tristimulus and Bayer Pattern Color Filter Accuracy for Display Measurement Based on CIE Color-Matching Functions." This technical presentation will be held as part of *Session 14: Display Measurements* taking place on the second day of the conference, Thursday, 27 February, from 2:35-2:55 P.M. (14:35-14:55).

An imaging system's color filter is a key determiner of color measurement accuracy. Some filters provide a system response that is a close match to CIE color-matching functions (referenced in CIE 015:2018 Colorimetry), improving the calculation of CIE color coordinates when calibration and software functions are applied to measure color values across displays. This is particularly important when high levels of variability exist in a display. Non-uniformity across LED-based displays (for example, LED and microLED displays) must be accurately measured across pixel bright states, both to characterize the output at each pixel and also to apply pixel-level correction factors. Depending on the color filter method, a measurement system calibrated to a single pixel's output color may provide greater accuracy for calculating a given color when variations occur from pixel to pixel, or within a single pixel powered at different levels of current.

At the edC, Radiant will present the results of its technical evaluation of color measurement systems to compare the accuracy of two filter systems according to CIE color-matching functions: a tristimulus filter system and a Bayer pattern filter system. As a baseline, the study presents the amount of color variation observed for LEDs driven at different levels of current (as measured in Cx, Cy by a spectroradiometer). Then, data is provided to show comparative values measured by each color filter system calibrated to a base output value for each colored LED. The results illustrate how each filter technology tolerates variation in each target color, and suggest effective color measurement methods per color for LED-based displays whose pixels deviate from a calibrated value.

Presenting this technical topic on behalf of Radiant Vision Systems is Jens Jensen, Vice President of Radiant's product development teams responsible for camera hardware, firmware, product software, calibration software, and fixtures. Jensen received a master's degree in Mechanical Engineering from the Technical University of Denmark. He spent 23 years

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making measurement systems as the technical lead of the DANAK-accredited photometric and colorimetric laboratory in Denmark, and later joined Radiant where he has made significant contributions to the company's engineering development for the last nine years.

For information or to register for the electronic displays Conference, visit events.weka-fachmedien.de/electronic-displays-conference. Learn more about Radiant Vision Systems at www.RadiantVisionSystems.com.

About Radiant Vision Systems
Radiant Vision Systems works with world-class brands and manufacturers to deliver creative visual inspection solutions that improve quality, reduce costs, and increase customer satisfaction. Radiant's legacy of technology innovation in photometric imaging and worldwide install base date back more than 25 years and address applications from consumer electronics to automotive manufacturing. Radiant Vision Systems product lines include TrueTest™ automated visual inspection software for quality control, and ProMetric® imaging colorimeters, photometers, and light source measurement systems. Radiant is headquartered in Redmond, Washington, USA, with strategic offices in California, Michigan, China, and South Korea. Radiant has been a part of Konica Minolta's Sensing Business Unit since August 2015. For more information, visit www.RadiantVisionSystems.com.

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