Workshop "Challenges on the measurement of sparkle and graininess"

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METROLOGY





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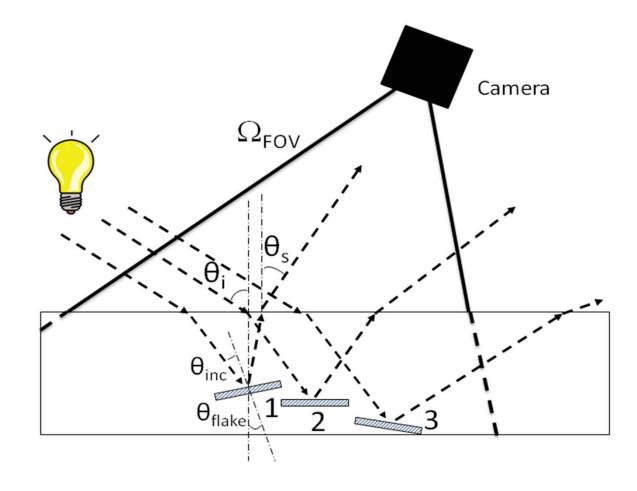


AUTOMOTIVE

DISPLAYS







Challenges

 National metrology institutes (NMIs) have to propose and validate a methodology for measuring the bidirectional texture funciton (BTF) for sparkle, and a spatially resolved hemispherical-directional reflectance quantity relevant for graininess.

Challenges

2. Universities and other research centers have to test methodologies for obtaining visual data, and provide them.

Challenges

 To agree, within an international and normative organism, measurement scales for sparkle and graininess, and their texture difference formulae (by comparing reflectance and visual data).

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NEWS

Measurement of sparkle: EMPIR proposal for new CIE technical committee accepted



International Commission on Illumination (CIE) new technical committee on the measurement of sparkle and graininess

The project

EMPIR project 'Bidirectional reflectance definitions' (16NRM08, BiRD) is working to carry out measurements on different visual effects and independently validate them, and use these measurements to propose standards and guidance, as well as agreeing formats for measurement data. It will make recommendations for the characterisation of surface colour, gloss, sparkle and graininess effects and agree new approaches for measuring these.

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These standardised approaches will help manufacturers produce a new generation of instruments, giving many industries, including automotive and cosmetics, better control of product appearance and higher customer satisfaction.

The new CIE technical committee

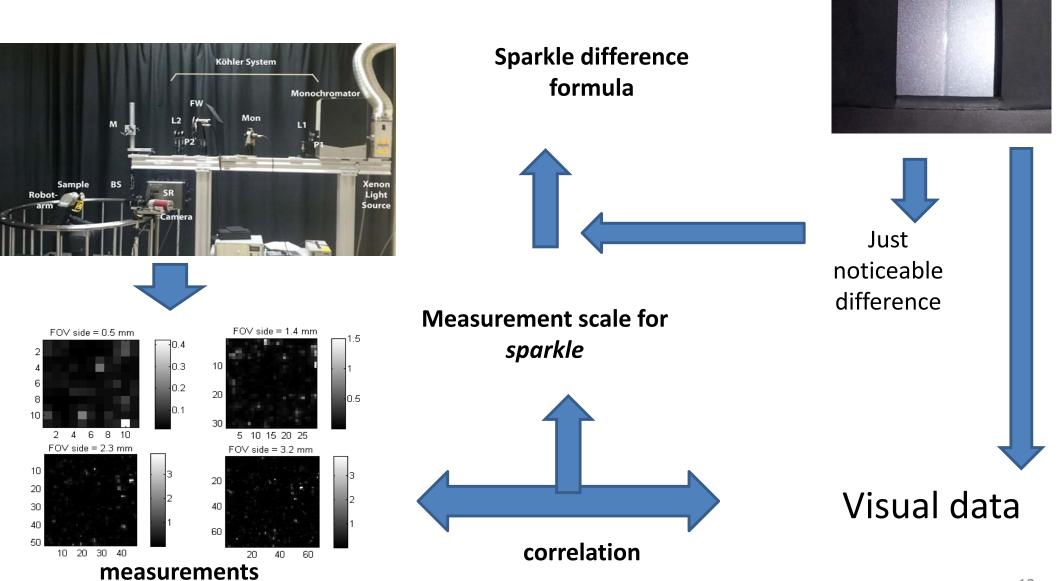
The International Commission on Illumination is devoted to worldwide cooperation and the exchange of information on all matters relating to the science and art of light and lighting, colour and vision, photobiology and image technology.

The CIE Board of Administration accepted the proposal initiated by the project consortium for the creation of a CIE Technical Committee on the measurement of Sparkle and Graininess in November 2017. The Technical Committee will provide a methodology to measure sparkle and graininess, and to develop a measurement scale.

Dr Alejandro Ferrero from CSIC and a member of the EMPIR project consortium has been appointed Committee Chair.

Sparkle

Goniospectrophotometers



Visual experiments

