

## 2018 UK-JSPS Symposium

# SHITSUKAN approach to digital colour sensing: human colour vision for material quality

**Date:** 8 August 2018

**Venue:** University of Manchester, School of Electrical and Electronic Engineering, Sackville Street Building.

### Research symposium

SHITSUKAN is a Japanese word for human sensing of material quality, for example, gloss or wetness of surfaces, translucence of skin. Recognition of SHITSUKAN is an ability of the human brain to estimate the nature of objects and plays essential roles in value-based behaviour selection and body motor control in our everyday life. Sensing of SHITSUKAN is obtained through multiple modalities such as vision and touch. Thus, SHITSUKAN is based on a complex high-dimensional neural representation formed by an integration of sensory signals. Understanding SHITSUKAN will unmask critical scientific questions about human sensory mechanisms, and its computational modelling will contribute to the development of the future information-processing technologies.

Japan's MEXT (Ministry of Education, Culture, Sports, Science and Technology) SHITSUKAN project, led by Dr Shin'ya Nishida (NTT Communication Science Laboratories), is an ambitious and innovative multidisciplinary research consortium. We are delighted to invite leading SHITSUKAN scientists from Japan, who will present insights into their individual research.

### Presentations

- **Dr Shin'ya Nishida** (NTT Comm Sci): *Understanding human recognition of material properties for innovation in SHITSUKAN science and technology*
- **Dr Yoko Mizokami** (Chiba University): *Is perception of skin color and its shitsukan special?*
- **Dr Yu Fang** (Honda Research Institute Japan): *Influence of facial color distribution on perception of pigment spot*
- **Prof David Foster** (University of Manchester): *Human colour vision and hyperspectral imaging.*

You will have a chance to speak to the JSPS representatives at this event if you are interested in visiting Japan for your research collaboration.

### Registration

All welcome.

To reserve your place and further details, please contact

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