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
Room D45 (D floor) at 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 rules 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.

You will have a chance to learn the JSPS activities and their funding opportunities (inc. joint schemes with the UKRI and the Royal Society) for your research.

Presenters
- Shin'ya Nishida: NTT Communication Science Laboratories
- Yoko Mizokami: Chiba University
- Yu Fang: Honda Research Institute Japan
- Hideki Tamura: Toyohashi University of Technology
- David Foster: University of Manchester
- Ryo Satomura: JSPS

Provisional programme

9:30 Registration
10:00 Prof Nobuo Ueno (JSPS Director): Opening of the JSPS symposium
10:10 Kinjiro Amano: Introduction
10:30 Yoko Mizokami: Is perception of skin color and its shitsukan special?
11:10 Yu Fang: Influence of facial color distribution on perception of pigment spot
11:40 Hideki Tamura (co. Eugen Prokott and Roland Fleming: Justus-Liebig-University Giessen) : Distinguishing mirror from glass
12:10 Short discussion
12:20 Lunch
13:30 Shin’ya Nishida : Understanding human recognition of material properties for innovation in SHITSUKAN science and technology
14:10 Prof David Foster : Human colour vision and hyperspectral imaging
14:45 Panel discussion
15:00 Ryo Satomura (JSPS) : JSPS activities and funding opportunities (inc. joint schemes with the UKRI and the Royal Society)
15:30 General Discussion with refreshments
17:00 End

Registration
All welcome (free).
To reserve your place and further details, please contact
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