# Editorial

## Maurice D. Mulvenna & Raymond Bond

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# Editorial

Welcome to this special issue 'Highlights from the European Conference on Cognitive Ergonomics (ECCE-2019)' of Behaviour & Information Technology, presenting six papers selected from the programme of the 31st annual conference of the European Conference of Cognitive Ergonomics (ECCE) in the city of Belfast, Northern Ireland, UK.

Siddharth Gulati, Sonia Sousa & David Lamas ground-breaking work on human–computer trust scales developed a multi-dimensional scale to assess user trust in HCI. It also used a novel approach using the concept of design fiction and future scenarios to study trust.

The paper on ephemeral media platforms by Christof van Nimwegen & Kristi Bergman, Utrecht University explores how it allows users to send content in a format that automatically deletes the content after the recipient has accessed it – a phenomenon known as the 'burn after reading' principle. The paper reports that the burn after read principle does have a significant impact on accuracy in recognising pictures and the time spent watching them.

The paper 'Musical sonification supports visual discrimination of color intensity' by Niklas Rönnberg, Linköping University reports on experiments on augmenting visual representations of data with sound, offering novel ways to augment the communication to the user.

Virpi Kalakoski, Finnish Institute of Occupational Health with co-authors Andreas Henelius, Emilia Oikarinen, Antti Ukkonen & Kai Puolamäki, University of Helsinki seek to identify the cognitive factors that must be considered when designing systems to improve decision-making based on large amounts of data. Their study demonstrated critical cognitive limitations when people utilise data and suggests a cognitive bias in data-based decision-making.

Benjamin R. Subhani, Oluwademilade I. Amos-Oluwole, Harry L. Claxton, Daisy C. Holmes, Carina E. I. Westling & Harry J. Witchel, Brighton and Sussex Medical School and University of Sussex explore mind wandering, a commonly intruding cognitive state that leads to diminished performance and increased error risk during a primary task. Their study found that compliant activity works synergistically with lack of mind wandering to accelerate the difficult task of thought probe response but not simple reaction times.

Raymond Bond, Anne Moorhead, Maurice Mulvenna, Siobhan O'Neill, Courtney Potts & Nuala Murphy, Ulster University work explores the behaviour of app users completing ecological momentary assessments using mental health scales and mood logs over time. The study found that users prefer completing mood log ecological momentary assessments, and that the temporal behaviour of users engaging with ecological momentary assessments in the form of mental health scales is distinctly different from how they engage with mood logs.

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