In this issue of Expert Update we have included the papers presented at the 1st BCS SGAI Workshop on Data Stream Mining Techniques and Applications, which was held on the 13th of December 2016. The workshop was organised by Dr Frederic Stahl from the University of Reading.

This workshop's focus was on the Velocity dimension of Big Data Analytics. The difference compared with data that is stored on a disk is that real-time data may change its characteristics over time and thus poses unique challenges to data mining techniques. The five papers presented in this special issue cover novel data stream mining techniques, such as an algorithm for real-time feature tracking and a platform for real-time classification of document streams. The papers also cover a range of applications, such as mining TV Twitter network streams, real-time activity recognition from wearable sensor and insider threat detection.