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Session Title: Using randoms in computer-aided assessments for mathematics and beyond!
Format: Presentation
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Summary: <p>This talk will demonstrate some of the capabilities of Mathletics, a (free) suite of assessments for testing mathematics from GCSE to first-year university level. Mathletics is an extended version of Perception 3 which allows scripting, thereby producing dynamic questions that carry random parameters through to all aspects of the question: the stem, the key and distracters (if any), the feedback, all mathematical expressions (generated using MathML) and all diagrams (generated using SVG). Both programming and pedagogic issues will be presented for a range of question types (multi-choice, numerical input etc).</p> <p>More recent additions to Mathletics include discrete and decision maths, quants for economics students and aspects of English grammar and phonics for trainee teachers. The talk will explain how random parameters can also be used in these contexts.</p>