

Contents

Editorial – Peter Rowlett	3-4
E-Assessment in Mathematical Sciences (EAMS) Conference – Chris Graham and Christian Lawson-Perfect (EAMS Conference Organisers)	5
CASE STUDY: Using SOWISO to realize interactive mathematical documents for learning, practising, and assessing mathematics – André Heck	6-16
CASE STUDY: E-learning/e-assessment systems based on webMathematica for university mathematics education – Mitsuru Kawazoe and Kentaro Yoshitomi	17-24
CASE STUDY: Proctoring to improve teaching practice – Natasa Brouwer, André Heck and Guusje Smit	25-33
CASE STUDY: Using e-assessment to support flipped-style teaching – Karen Henderson	34-41
CASE STUDY: Numbas as an engagement tool for first-year Business Studies students – Tom Carroll, Deirdre Casey, Julie Crowley, Kieran F. Mulchrone and Áine Ní Shé	42-50
CASE STUDY: Creating statistics e-assessments using Dewis with embedded R code – Iain Weir, Rhys Gwynllyw and Karen Henderson	51-59
RESEARCH ARTICLE: STACK with state – Matti Harjula and Jarmo Malinen	60-69
RESEARCH ARTICLE: MathTOUCH: Mathematical Input Interface for E-Assessment Systems – Shizuka Shirai and Tetsuo Fukui	70-75
RESEARCH ARTICLE: A New Mathematics Input Interface with Flick Operation for Mobile Devices – Yasuyuki Nakamura and Takahiro Nakahara	76-82

For information about how to submit an article, notifications of new issues and further information relating to *MSOR Connections*, please visit <https://journals.gre.ac.uk/index.php/msor>.

Editors

Noel-Ann Bradshaw, University of Greenwich
Joe Kyle, (formerly) University of Birmingham
Alun Owen, De Montfort University
Peter Rowlett, Sheffield Hallam University
Robert Wilson, Cardiff University

Editorial Board

Tony Croft, Loughborough University
Neville Davies, Plymouth University
Michael Grove, University of Birmingham
Paul Hewson, Plymouth University
Duncan Lawson, Newman University
Eabhnat Ni Fhloinn, Dublin City University
Matina Rassias, University College London

This journal is published with the support of the **sigma** network and the Greenwich Maths Centre.



UNIVERSITY
of
GREENWICH