Model Based System Assurance Using the Structured Assurance Case Metamodel

Ran Wei\*, Tim P. Kelly\*, Richard Hawkins\*,

\*Department of Computer Science, University of York, United Kingdom

**Corresponding Authors**:

Ran Wei (Ph.D)

Research Associate,

Department of Computer Science,

University of York,

York, United Kingdom, YO10 5GH

E-mail: ran.wei@york.ac.uk

Tel: (+44) 01904 325649

Prof. Tim P. Kelly (Ph.D)

Professor of High Integrity Systems,

Department of Computer Science,

University of York,

York, United Kingdom, YO10 5GH

E-mail: tim.kelly@york.ac.uk

Tel: (+44) 01904 325477

Richard Hawkins (Ph.D)

Senior Research Fellow,

Department of Computer Science,

University of York,

York, United Kingdom, YO10 5GH

E-mail: richard.hawkins@york.ac.uk

Tel: (+44) 01904 325463

**Running Title**: Model Based System Assurance Using SACM

**Word Count**: 11,101