Information Systems Foundations

Theory, Representation and Reality

Information Systems Foundations
Theory, Representation and Reality

Dennis N. Hart and Shirley D. Gregor (Editors)

THE AUSTRALIAN NATIONAL UNIVERSITY
E PRESS

Workshop Chair

Shirley D. Gregor *ANU*

Program Chairs

Dennis N. Hart *ANU*
Shirley D. Gregor *ANU*

Program Committee

Bob Colomb *University of Queensland*
Walter Fernandez *ANU*
Steven Fraser *ANU*
Sigi Goode *ANU*
Peter Green *University of Queensland*
Robert Johnston *University of Melbourne*
Sumit Lodhia *ANU*
Mike Metcalfe *University of South Australia*
Graham Pervan *Curtin University of Technology*
Michael Rosemann *Queensland University of Technology*
Graeme Shanks *University of Melbourne*
Tim Turner *Australian Defence Force Academy*
Leoni Warne *Defence Science and Technology Organisation*
David Wilson *University of Technology, Sydney*

Published by ANU E Press
The Australian National University
Canberra ACT 0200, Australia
Email: anuepress@anu.edu.au
This title is also available online at: http://epress.anu.edu.au/info_systems02_citation.html

National Library of Australia
Cataloguing-in-Publication entry

Information systems foundations : theory,
representation and reality

Bibliography.
ISBN 9781921313134 (pbk.)
ISBN 9781921313141 (online)

1. Management information systems–Congresses. 2. Information
resources management–Congresses.

658.4038

All rights reserved. No part of this publication may be reproduced, stored in a retrieval system or transmitted in any form or by any means, electronic, mechanical, photocopying or otherwise, without the prior permission of the publisher.

Cover design by Brendon McKinley with logo by Michael Gregor
Authors' photographs on back cover: ANU Photography

Printed by University Printing Services, ANU

This edition © 2007 ANU E Press

Table of Contents

Preface vii

The Papers ix

Theory

Designing for Muta bility in Information Systems Artifacts, *Shirley Gregor and Juhani Iivari* 3

The Effect of the Application Domain in IS Problem Solving: A Theoretical Analysis, *Iris Vessey* 25

Towards a Unified Theory of Fit: Task, Technology and Individual, *Michael J. Davern* 49

Are Routine Manual Systems Genuine Information Systems?, *Reeva Lederman and Robert Johnston* 71

Representation

Extending the Scope of Representation Theory: A Review and Proposed Research Model, *Jan Recker and Michael Rosemann and Peter Green and Marta Indulska* 93

Indexing Research: An Approach to Grounding Ingarden's Ontological Framework, *John W Lamp and Simon Milton* 115

Using Protocol Analysis to Explore the Creative Requirements Engineering Process, *Lemai Nguyen and Graeme Shanks* 133

Poles Apart or Bedfellows? Re-conceptualising Information Systems Success and Failure, *Dennis Hart and Leoni Warne* 153

Reality

An Action-Centred Approach to Conceptualising Information Support for Routine Work, *Vivienne Waller and Robert B Johnston and Simon K Milton* 171

Emergent Conversational Technologies That Are Democratising Information Systems in Organisations: The Case of the Corporate Wiki, *Helen Hasan and Charmaine C Pfaff* 197

A Road Less Travelled: Exploratory Practice-Driven Theory Development Opportunities in IS Project Management, *Peter Reynolds and Philip Yetton* 211

A Multi-Paradigm Approach to Grounded Theory, *Walter Fernández and Michael A. Martin and Shirley Gregor and Steven E. Stern and Michael Vitale* 231

The Methodological and Theoretical Foundations of Decision Support Systems Research, *David Arnott and Graham Pervan* 247