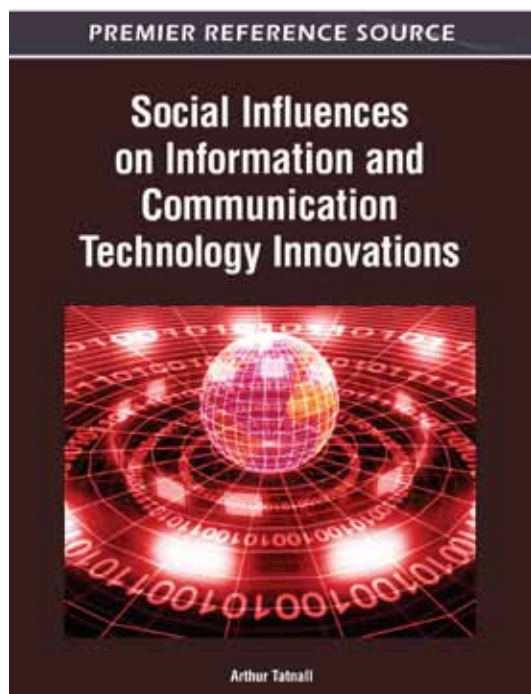


# An Excellent Addition to Your Library!

Released: May 2012

## Social Influences on Information and Communication Technology Innovations



Arthur Tatnall  
(Victoria University, Australia)

It has been over twenty years since developments in actor-network theory were first written on paper. Since then, the Information and Communication Technologies (ICT) community has begun to discover the power of using actor-network theory as an explanatory framework for much of its research. This research community has come to an understanding that information systems are, of necessity, socio-technical in nature and require a socio-technical approach to their investigation. Thanks to developments in actor-network theory, researchers can now approach people and technology as one single entity that gives support to social influences on technological innovations.

**Social Influences on Information and Communication Technology Innovations** discusses in great detail the use of actor-network theory in offering explanations for socio-technical phenomena, focusing greatly on information communication technologies. Implementation and use of information and communication technologies inevitably involves the interactions of both technology and people. This publication facilitates international growth in the body of research investigating the value of using actor-network theory as a means of understanding socio-technical phenomena and technological innovation.

### Topics Covered:

- e-Learning
- ICT adoption in rural areas
- Internet-based self-service technology
- Knowledge creation and knowledge transfer
- Online communities
- Programming languages
- Project management
- Social networking
- Strategic implementation of enterprise architecture
- Structuration and Actor Network Theory

ISBN: 9781466615595; © 2012; 281 pp.

Print: US \$175.00 | Perpetual: US \$265.00 | Print + Perpetual: US \$350.00

**Market:** This premier publication is essential for all academic and research library reference collections. It is a crucial tool for academicians, researchers, and practitioners and is ideal for classroom use.

**Arthur Tatnall** is an Associate Professor in the Graduate School of Business at Victoria University in Melbourne, Australia. In his PhD he used actor-network theory to investigate adoption of Visual Basic in the curriculum of an Australian university. Arthur's research interests include technological innovation, history of technology, project management, information systems curriculum, information technology in educational management and electronic business. Much of his research is based on the use of actor-network theory. Arthur is a Fellow of the Australian Computer Society and active in the International Federation for Information Processing (IFIP) as Chair of IFIP WG9.7 – History of Computing, Chair of IFIP WG3.4 – ICT in Professional and Vocational Education and a member of IFIP WG3.7 – Information Technology in Educational Management. He has published widely in journals, books, book chapters and conference proceedings and recently edited the Encyclopaedia of Portal Technology and Applications, and Web Technologies: Concepts, Methodologies, Tools, and Applications for IGI Global. Arthur is also Editor-in-Chief of the International Journal of Actor-Network Theory and Technological Innovation, Editor-in-Chief of the Journal of Education and Information Technologies and Editor of the Journal of Business Systems, Governance and Ethics.

- Chapter 1  
*The Use of Structuration Theory and Actor Network Theory for Analysis:*  
Iyamu Tiko (Tshwane University of Technology, South Africa)  
Roode Dewald (University of Cape Town, South Africa)
- Chapter 2  
*Information Infrastructure:*  
Cordella Antonio (London School of Economics, UK)
- Chapter 3  
*Adoption of ICT in Rural Medical General Practices in Australia:*  
Deering Patricia (National Health Workforce Task Force, Australia)  
Tatnall Arthur (Victoria University, Australia)  
Burgess Stephen (Victoria University, Australia)
- Chapter 4  
*Having a Say:*  
Kennan Mary Anne (Charles Sturt University, Australia)  
Ceccez-Kecmanovic Dubravka (University of New South Wales, Australia)  
Underwood Jim (University of Technology Sydney, Australia)
- Chapter 5  
*A Socio-Technical Account of an Internet-Based Self-Service Technology Implementation:*  
Naidoo Rennie (University of the Witwatersrand, South Africa)
- Chapter 6  
*How to Recognize an Immutable Mobile When You Find One:*  
Gonçalves Fernando Abreu (CEG-IST, Portugal)  
Figueiredo José (Technical University of Lisbon, Instituto Superior Técnico, Portugal)
- Chapter 7  
*Social Network Sites:*  
Zammar Nisrine (Université Haute Bretagne, Rennes 2, France)
- Chapter 8  
*Negotiating Meaning: An ANT Approach to the Building of Innovations*  
Gonçalves Fernando Abreu (Technical University of Lisbon, Portugal)  
Figueiredo José (Technical University of Lisbon, Portugal)
- Chapter 9  
*Theoretical Analysis of Strategic Implementation of Enterprise Architecture*  
Iyamu Tiko (Tshwane University of Technology, South Africa)
- Chapter 10  
*RAD and Other Innovative Approaches to Facilitate Superior Project Management*  
Bali Rajeev K (Coventry University, UK)  
Wickramasinghe Nilmini (RMIT University, Australia)
- Chapter 11  
*Desitinating Context in Ubiquitous Computing:*  
Jonsson Katrin (Umeå University, Sweden)  
Holmström Jonny (Umeå University, Sweden)  
Lyytinen Kalle (Case Western Reserve University, USA)  
Nilsson Agneta (Umeå University and Gothenburg University, Sweden)
- Chapter 12  
*Negotiating the Socio-Material in and about Information Systems:*  
Cole Fletcher T. H. (University of New South Wales, Australia)
- Chapter 13  
*On Actors, Networks, Hybrids, Black Boxes and Contesting Programming Languages*  
Tatnall Arthur (Victoria University, Australia)
- Chapter 14  
*From Intermediary to Mediator and Vice Versa:*  
Andrade Antonio Diaz (Auckland University of Technology, New Zealand)
- Chapter 15  
*Using Actor-Network Theory to Facilitate a Superior Understanding of Knowledge Creation and Knowledge Transfer*  
Wickramasinghe Nilmini (RMIT University, Australia)  
Tatnall Arthur (Victoria University, Australia)  
Bali Rajeev K. (Coventry University, UK)
- Chapter 16  
*Aspects of e-Learning in a University*  
Manning Karen (Victoria University, Australia)  
Wong Lily (Victoria University, Australia)  
Tatnall Arthur (Victoria University, Australia)

## Order Your Copy Today!

Name: \_\_\_\_\_

Organization: \_\_\_\_\_

Address: \_\_\_\_\_

City, State, Zip: \_\_\_\_\_

Country: \_\_\_\_\_

Tel: \_\_\_\_\_

Fax: \_\_\_\_\_

E-mail: \_\_\_\_\_

Enclosed is check payable to IGI Global in  
US Dollars, drawn on a US-based bank

Credit Card  Mastercard  Visa  Am. Express

3 or 4 Digit Security Code: \_\_\_\_\_

Name on Card: \_\_\_\_\_

Account #: \_\_\_\_\_

Expiration Date: \_\_\_\_\_