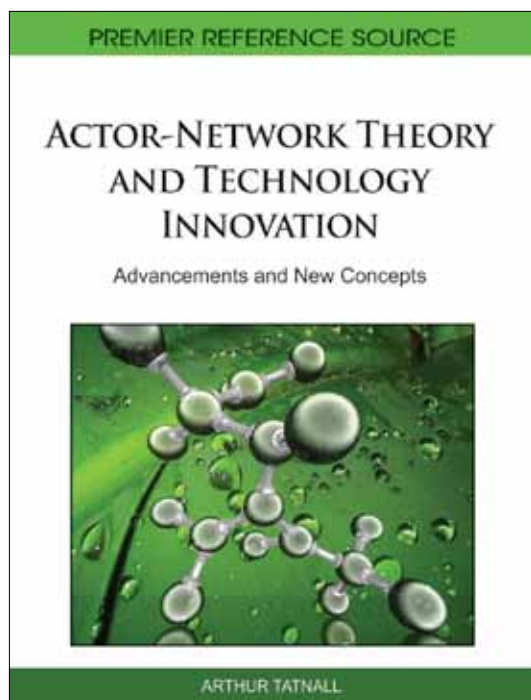


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Actor-Network Theory and Technology Innovation: Advancements and New Concepts



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Arthur Tatnall (Victoria University, Australia)

About 25 years ago, the first developments of ANT (Actor-Network Theory) took place, but it wasn't until much later that researchers began to take it seriously. In the late 1990s, ANT began to take hold in the scientific community as a new and exciting approach to socio-technical research and social theory. Actor-Network Theory and Technology Innovation: Advancements and New Concepts provides a comprehensive look at the development of actor-network theory itself, as well as case studies of its use to assist in the explanation of various socio-technical phenomena. This book includes topics relating to technological innovation; both those using actor-network theory as an explanatory framework and those using other approaches. It is an excellent source of information regarding ANT as an approach to technological innovation and its link to ICT (Information Communication Technology).

Topics Covered:

- Analytical frameworks that build on, and go beyond ANT
- ANT research methods and the conduct of ANT research
- ANT to investigate the implementation and use of information and communication technologies
- Comparison of the various different approaches to framing technological innovation
- Development, evaluations, criticisms, and triumphs of ANT
- Ecological models of innovation
- Innovation diffusion
- Innovation translation as an approach to explaining technological innovation
- The use of ANT for investigating technological applications
- Use of ANT in the investigation of historical examples of technological innovation

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*.

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