



# TelSoc

## Telecommunications & the Digital Economy

Published on *TelSoc* (<https://telsoc.org>)

Home > Digital Economy Focus

---

### Digital Economy Focus

[Mark Gregory](#) <sup>[1]</sup>

RMIT University

---

**AJTDE - Vol 6, No 3 - August 2018** <sup>[2]</sup>

<sup>[3]</sup>

☆ 105<sup>[4]</sup>

#### Abstract

Papers in the September 2018 issue of the Journal provide an interesting mix of public policy debate, technology and the communications for the America's Cup Challenge defence held in Fremantle, Australia. The public policy papers cover fixed broadband adoption and economic growth in ASEAN and a framework to demystify machine-to-machine spectrum regulation. A technical paper on bitmaps and bitmasks provides an insight into the latest tools and techniques. The history of Australian telecommunications paper on the America's Cup communications solution provides an insight into what was a successful and difficult-to-achieve outcome for one of the world's major sporting events. The Journal welcomes contributions.

### In This Issue

In this issue of the *Journal* papers cover public policy, historical events and new technology solutions. The breadth of papers highlights the exciting changes occurring within our industry both locally and internationally.

*Fixed Broadband Take-up and Economic Growth* presents an interesting look at the causal relationships between fixed broadband take-up, gross capital accumulation, the degree of urbanisation, and economic growth, using panel data from 9 ASEAN member countries in 2003-2016.

*Framework for Demystifying M2M Spectrum Regulation* proposes a framework that aims to demystify the spectrum policy regulation in the age of machine-to-machine communications and the Internet of Things.

*Bitmaps & Bitmasks: Efficient Tools to Compress Deterministic Automata* provides an approach to efficiently compress deterministic automata for deep packet inspection.

*Communications for the America's Cup Challenge* provides two historic papers from a special issue of the *Journal* in 1986 featuring the communication requirements for the America's Cup 1986/87 challenge defence in Fremantle, Australia.

## The drive towards a digital economy

The momentum for Australian business and industry to adopt a proactive approach to becoming a part of the global digital economy continues to grow. As the global economies shift from fossil fuels to a range of modern alternatives, there is an underlying shift in the economic focus of the nations, like Australia, that have been major exporters of fossil fuels.

Australia is currently underperforming in the global digital economy and our ranking amongst the 16 most industrialised nations is middle of the pack. Our ranking for global resilience is falling and similarly for our ranking in the global innovation index.

There are a range of factors affecting the nation's prosperity and one of the factors that will become more important over time is investment in all things digital.

Telecommunications provides the fundamental platform for the global digital economy. To ensure that our participation in the global digital economy increases, a mix of public and private investment should occur over the next decade to enhance the opportunities for business and industry, irrespective of where they're located.

The drive towards a digital economy requires careful planning and consideration of how to meet the demands of regional and remote Australia, the powerhouse of the Australian economy. It will be through innovative ideas that are supported by public and private funding that the nation will enhance participation outside the urban areas.

The *Journal* welcomes papers on the digital economy, including, theory, public policy and case studies.

## The *Journal*, Looking Forward

Australian telecommunications is moving forward at a rapid rate, and the introduction of 5G next year will speed up the reach and utilisation of telecommunication services. The *Journal* is calling for papers on how 5G will affect Australian telecommunications consumers.

The National Broadband Network (NBN) is soon to enter a new phase and papers on what should be done with the NBN are welcomed.

The topics of *International Telecommunications Legislation and Regulations* and *International Mobile Cellular Regulation and Competition* are set to continue for some time, as the opportunity to attract papers from around the globe continues. We encourage papers that reflect on where the telecommunications market is now, how it got to where it is, and what is going to happen next.

Papers are invited for upcoming issues. With your contributions, the *Journal* will continue to provide readers with exciting and informative papers covering a range of local and international topics. The Editorial Advisory Board also values input from our readership, so please let us know what themes you would like to see in the coming year.

All papers related to telecommunications and the digital economy are welcome and will be considered for publication after the double-blind peer-review process.

Mark A Gregory

#### Article PDF:

163-article\_text-1656-2-11-20181020.pdf <sup>[5]</sup>

---

#### Copyright notice:

Copyright is held by the Authors subject to the Journal Copyright notice. <sup>[6]</sup>

#### Cite this article as:

Mark Gregory. 2018. *Digital Economy Focus*. ajtde, Vol 6, No 3, Article 163.

<http://doi.org/10.18080/ajtde.v6n3.163> <sup>[7]</sup>. Published by Telecommunications Association Inc. ABN 34 732 327 053. <https://telsoc.org> <sup>[8]</sup>

---

Editorial

Editorial

Editorial

<sup>[9]</sup>

<sup>[9]</sup>

<sup>[9]</sup>

---

**Source URL:** <https://telsoc.org/journal/ajtde-v6-n3/a163>

#### Links

[1] <https://telsoc.org/journal/author/mark-gregory> [2] <https://telsoc.org/journal/ajtde-v6-n3> [3]

<https://www.addtoany.com/share?url=https%3A%2F%2Ftelsoc.org%2Fjournal%2Fajtde-v6-n3%2Fa163&title=Digital%20Economy%20Focus> [4] [https://telsoc.org/printpdf/2247?rate=2ZTQyyocavZCPg-yHE21UUsUf8hsajvWTt\\_E4DRGwNk](https://telsoc.org/printpdf/2247?rate=2ZTQyyocavZCPg-yHE21UUsUf8hsajvWTt_E4DRGwNk) [5] [https://telsoc.org/sites/default/files/tja/pdf/163-article\\_text-1656-2-11-20181020.pdf](https://telsoc.org/sites/default/files/tja/pdf/163-article_text-1656-2-11-20181020.pdf)

[6] <https://telsoc.org/copyright> [7] <http://doi.org/10.18080/ajtde.v6n3.163> [8] <https://telsoc.org> [9]

<https://telsoc.org/topics/editorial>