Summary of Advances in Decision Sciences (ADS) - 2019

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Abstract

Decision Sciences is concerned with advancing knowledge and instruction in all areas related to decision making and scientific analysis in cognate disciplines in the Sciences and Social Sciences. This editorial note presents a summary of the 20 published papers in Advances in Decision Sciences (ADS). The journal was founded in 1997, and 2018 marked the 22nd Anniversary since inception. The purpose of the editorial note is to analyze the development of the 20 papers that have been published in ADS in 2019 in terms of the number of papers, number of pages, and mean length of papers.

Keywords: Decision making, decision sciences, descriptive statistics, number of papers, number of pages, mean length of papers.

JEL: C44, D81, D91, G11, G41, M51.
1. Introduction

Decision Sciences is concerned with advancing knowledge and instruction in all areas related to decision making and scientific analysis in cognate disciplines in the Sciences and Social Sciences. These related disciplines include several sub-discipline areas in Social Science and Business, Science and Engineering, Climate Change and Energy, Impact Measurement Metrics, and Health and Medical Science.

The disciplines in these five broad areas in Decisions Sciences are given below.

(1) Social Science and Business
(2) Science and Engineering
(3) Climate Change and Energy
(4) Impact Measurement Metrics
(5) Health and Medical Science

*Advances in Decision Sciences (ADS)* was established in 1997. The journal has always sought to publish innovative and original peer-reviewed research articles, as well as critical review articles, in all areas of decision sciences.

The scope of *ADS* is intentionally broad, with a fundamental emphasis on measurement, methods and methodologies, techniques and skills from a broad range of cognate disciplines that emphasize quantitative methods to achieve optimal decision making outcomes.

The 22nd Anniversary of the inception of *ADS* occurred in 2018, *ADS* published a 22nd
Anniversary special issue, denoted 22(A), as a single volume in 2018 (for further details, see Chang, McAleer and Wong (2018a, 2018b)).

*ADS* has published a total of 400 papers from 1997 to 2019, with this editorial note being included in the data for 2019 (see [http://journal.asia.edu.tw/ADS/category/table-of-contents-for-year-2018/](http://journal.asia.edu.tw/ADS/category/table-of-contents-for-year-2018/)).

The purpose of the editorial note is to analyze the development of the 400 papers that have been published *ADS* from 1997 to 2019 through the number of papers, number of pages, and mean length of papers. Section 1 discusses the multidisciplinary nature of decision sciences, while Section 2 evaluates the descriptive statistics, and Section 3 provides a general discussion of future prospects.

### 2. Descriptive Statistics

For the period 1997-2019, Table 1 provides the descriptive statistics for *ADS* in terms of the number of papers, number of pages, and mean length of papers. Figures 1-3 provide a graphical representation of the number of papers, number of pages, and mean length of papers, respectively.

The number of papers has ranged from 3 to 42, with spikes in 2006 and 2012, at 40 and 42 paper, respectively. Omitting these two outliers, as well as 3 papers in 2017 when the previous publisher had decided to discontinue the journal, the range is from 7 (in 2015 and 2016) to 26 (in 2011). Excluding the two outliers in 2006 and 2012, it is clear that the number of published papers was reasonably steady from 1997 through to 2014,
with a reduction from 2015-2017. The numbers of papers in 2018 and 2019 are far greater than in each of 2015, 2016 and 2017. These points can also be seen in Figure 2.

Not surprisingly, the number of pages each year has a broadly similar pattern to the number of papers. The range is from 25 in 2017 to 697 in 2012. The large outliers are in 2006, 2012 and 2019, while the small outliers are in 2015, 2016 and 2017. Excluding these outliers shows that the range is much smaller, from 125 in 2013 to 394 in 2011. Moreover, the number of pages has been reasonably steady throughout the existence of *ADS* from 1997 to 2019. These points can also be seen clearly in Figures 1 and 2.

The mean length of papers is the descriptive measure that has had the least variability throughout the life of the journal, with the exception of 2016-2019. The range is from 7.00 in 2016 to 29.05 in 2019. The same number of papers was published in 2019 as in 2015-2017 combined, and more pages have been published in 2019 than in 2013-2017 combined.

Excluding the large outliers in 2018-2019, and the two small outliers in 2016 and 2017, shows that the range is much smaller, from 10.42 in 2013 to 16.92 in 1998. These points can be seen in Figure 3.

### 3. Discussion and Future Prospects

The significance of the number of pages per paper in 2018 and 2019 as outliers is that the ownership of *ADS* was transferred from the previous publisher to Asia University, Taiwan in early 2018 when the previous publisher decided to discontinue the journal.
Subsequently, a new and talented editorial team has been established (for further details, see http://journal.asia.edu.tw/ADS/editorial-board/), which augurs well for the future of ADS.

As mentioned above, the discipline of decision sciences covers a broad spectrum of disciplines in the sciences and social sciences that are concerned with any aspects of optimal decision making. ADS is deeply concerned about publishing the best papers from any of these areas.

ADS will continue to encourage researchers, academics, scientists, social scientists, advanced students, practitioners, and other interested individuals to undertake research in all areas of decision sciences, and consider the journal as an outlet for their research.

This will also afford any interested contributors the opportunity to be well informed of the latest innovations in the analysis of optimal decision making through developments in all technical and cognate disciplines in the decision sciences.
References


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<tr>
<th>Year</th>
<th>Number of Papers</th>
<th>Number of Pages</th>
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**Note:** This editorial note is included in the data for 2019.
Figure 1

Number of Pages for ADS, 1997-2019

Note: This editorial note is included in the data for 2019.
Figure 2

Number of Papers for ADS, 1997-2019

Note: This editorial note is included in the data for 2019.
Figure 3

Mean Length of Papers for ADS, 1997-2019

Note: This editorial note is included in the data for 2019.