

## TECHNOLOGY AND SCIENCE EDUCATION: NEW CHALLENGES

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As usual in JOTSE, the first editorial of the year presents an analysis of our Journal evolution. In this sense, we reflect on the changes undergone and the challenges we will face in the new year 2017.

When analyzing JOTSE's evolution (See Figure 1) we can observe that the objective of steady growth has been accomplished throughout these 6 last years.

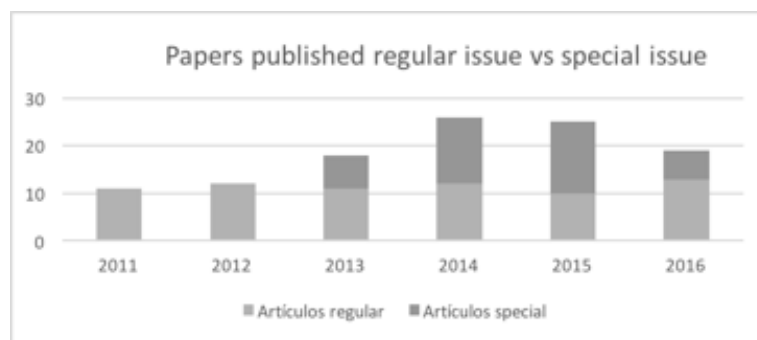


Figure 1. JOTSE's evolution

In 2016 volume 3 issues have been published: 2 regular and 1 special. If we observe JOTSE's monthly evolution we can state that July and December are the months with more article submissions as the average increases from 2 to 4,33 or even 5,5 (as seen in Table 1).

In Table 2 we can observe the evolution in terms of quantity of issues per year and published articles from 2011 to 2016.

We can state that the number of published articles in the last two years has a slight growth in the regular issue, in other words. In this vein, if we analyze JOTSE's internationalization as to visits to its website (one of our challenges) we can observe that since 4th November 2015 it has had 18424 visits. To this respect, 65% in 2015 and 74 % in 2016 of such visits are from foreign countries (In Table 2 we include the 10 countries that visit JOTSE's website more frequently).

	Average	2010	2011	2012	2013	2014	2015	2016
January	3,20		0	2	1	9	4	3
February	2,00		1	4	1	0	4	1
March	2,20		0	1	2	3	5	1
April	1,50	1	1	0	3	2	2	2
May	1,33	3	2	0	0	2	2	3
June	2,33	1	4	0	3	1	4	3
July	4,33	1	0	7	5	8	5	3
August	1,33	1	1	1	2	1	2	2
September	2,50	0	1	3	1	5	5	2
October	1,83	2	0	4	1	1	3	8
November	3,33	1	1	1	6	2	9	11
December	5,50	1	1	3	9	11	8	3
<b>TOTAL</b>	<b>30,17</b>	<b>11</b>	<b>12</b>	<b>26</b>	<b>34</b>	<b>45</b>	<b>53</b>	<b>42</b>

Table 1. Article submission evolution from 2010 to 2016

	Issues	Articles published in regular issue	Articles published in special issue	Total papers
2011	2 (2+0)	11	0	11
2012	2 (2+0)	12	0	12
2013	3 (2+1)	11	7	18
2014	4 (2+2)	12	14	26
2015	4 (2+2)	10	15	25
2016	3 (2+1)	13	6	19

Table 2. Number of Articles published

2015				2016			
No	Country	Percent	Num visits	No	Country	Percent	Num visits
1	Spain	34.23%	855	1	Spain	26.14%	4816
2	United States	14.85%	371	2	United States	17.17%	3164
3	India	5.20%	130	3	India	6.47%	1192
4	United Kingdom	4.40%	110	4	United Kingdom	3.79%	698
5	Portugal	4.36%	109	5	Philippines	2.59%	477
6	Turkey	2.68%	67	6	Indonesia	2.20%	405
7	Indonesia	2.04%	51	7	Canada	2.18%	401
8	Malaysia	1.84%	46	8	Australia	2.16%	398
9	Philippines	1.68%	42	9	Turkey	1.92%	353
10	Canada	1.64%	41	10	Malaysia	1.78%	328

Table 3. JOTSE's visits from 4th November 2015 to 10th January 2017

As to Journal’s indexation, which is one of our main challenges, we should mention here that JOTSE obtained its SCOPUS entry in Novembre 2015.

We're proud of our advocating for international scholars, allowing authors to speak with their own voices, making the journal contribution as innovative as the articles that we publish, and always thinking outside of the status quo and being responsive to new and interesting ideas and maintaining high standards of quality.

For this 2017 we are foreseeing new challenges, such as the increase in the number of submitted articles as well as making an extra effort to keep our reviewers’ fidelity. As we can see in the Figure 2, We can improve on our quality of review, if our reviewers feel more involved with JOTSE and we will work this year for that.

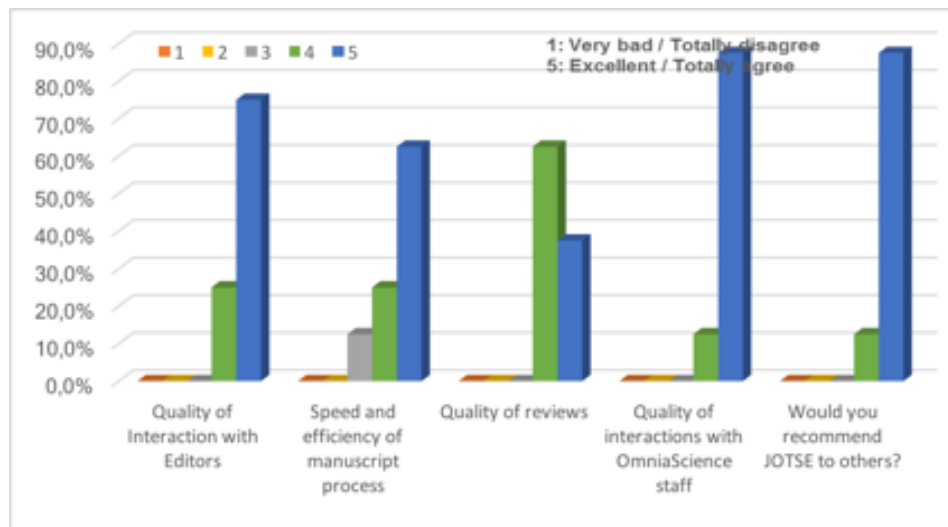


Figure 2. JOTSE author survey results 2016

With this good purpose in mind we present the new volume of JOTSE, which includes articles closely related with Education Technology, that is to say, the technological resources that facilitate the learning-teaching process.

The present issue counts on the following published articles:

- [Action learning in undergraduate engineering thesis supervision](#) by Brad Stappenbelt
- [Using technology to support science inquiry learning](#) by P John Williams, Nhung Nguyen, Jenny Mangan
- [Teaching technology: From knowing to feeling enhancing emotional and content acquisition performance through Gardner's Multiple Intelligences Theory in technology and design lessons](#) by Jesus Sanchez-Martin, Garcia J. Alvarez-Gragera, Maria Antonia Davila-Acedo, Vicente Mellado
- [The surveys to the companies: A tool for the improvement of degrees](#) by Montserrat Cruells Cadevall, Antoni Roca Vallmajor, Núria Escaja Sánchez, Javier Fernández González, José Antonio Garrido Ponce, Jaume Giménez Farreras, Montserrat Llauredó Tarragó, Laura Rodríguez Raurell, Josep Oriol Bernad Marcos, Carla Escobar Arias, Nuria López Vinent
- [A teaching proposal for the study of Eigenvectors and Eigenvalues](#) by María José Beltrán Meneu, Marina Murillo Arcila, Enrique Jordá Mora

We hope that you find them interesting.

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