











#### 4. CONCLUSIONS

In 2017, JOTA has celebrated the 50th anniversary. Motivated by this event, this study presents a bibliometric analysis of the journal during this period to identify the leading trends and most significant results occurring in the journal. The study uses the Scopus database and analyses all the publications of JOTA between 1967 and December 2016. The results show the strong growth of JOTA through time and provide a general overview on various bibliometric indicators.

The work also develops a graphical analysis of the bibliometric material by using VOS viewer software. The study considers co-citation, bibliographic coupling and co-occurrence of author keywords. Most of the journals cited in JOTA are related to optimization, mathematics and operations research. The graphical results show that the leading topics of the journal are optimal control, global optimization, variational inequalities, nonlinear programming, optimality conditions and convex programming. The main advantage of the graphical analysis is the representation of the connections between different variables that indicates similar profile in the publications of JOTA.

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