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Co-authorship Network Analysis for Fisheries Indexed Publications

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Abstract

Co-authorship can be viewed as a very tangible form of research collaboration where the relationship between authors is often based on strong ties; a direct colleague, a research or industry partner, a supervisor, a faculty member. A co-authorship network is a social network where authors, expressed as nodes, are linked to other authors on the basis of one or several types of collaboration. Such social networks can help in understanding the patterns of research collaboration within different academic disciplines. Questions such as "can we discern communities of researchers within the network?" can easily be answered. This research explores the structure of co-authorship networks for a dataset of 106,000 unique authors that collectively have published 73,000 scientific articles in 50 fisheries indexed journals between 2000 and 2017. The research will explore communities of researchers both spatially as well as temporal to discover trends in multidisciplinary, interdisciplinary, and transdisciplinary research for the field of fisheries and marine science. Such trends will aid in a better understanding of publication endeavors between authors and highlight how the academic field of fisheries and marine science has changed over the last 17 years.

Keywords: social network analysis, co-authorship, fisheries

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