عنوان فارسی مقاله:
پشتیبانی تصمیم چند هدفی برای افزایش پایداری محیطی در حمل و نقل دریایی: بررسی و مسیرهای آینده

عنوان انگلیسی مقاله:
Multi-objective decision support to enhance environmental sustainability in maritime shipping: A review and future directions

توجه!
این فایل تنها قسمتی از ترجمه می‌باشد. برای تهیه مقاله ترجمه شده کامل با فرمت ورد (قابل ویرایش) همراه با نسخه انگلیسی مقاله، اینجا کلیک کنید.
7. Discussion and future directions

Our literature review reveals that the three areas of this survey have received varied attention and grown at different levels. Fig. 8 illustrates the trend of publications on maritime shipping in the three areas covered in this survey. As can be seen in the figure, environmental sustainability has received the highest attention in the past years followed by MOO. The number of publications on DSS appears to have seen its peak between 2006 and 2010 and while it has continued to grow since then this has been at a relatively lower rate compared to the other two areas.

A scaled representation of the growth of the body of literature in these areas is provided in Fig. 9. As can be seen, the literature on environmental sustainability in maritime shipping (circle A) has seen the fastest growth among the three areas: from non-existence prior to 2005 to the largest area at the present time. In the next rank, the literature on MOO for maritime shipping (circle B) has witnessed considerable growth until 2010 and continued to grow at a lower rate afterwards. With the emergence of the literature on environmental sustainability after 2005, the literature on DSS has reflected the inclusion of sustainability as part of the DSS for the maritime industry, as can be seen in the overlapped area between circles A and B. Apart from the earliest attempt to develop DSS with MOO capabilities by Grabowski and Hendrick (1993), the overlap between these two areas (B and C) has remained unchanged.