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HASIL PENILAIAN SEJAWAT SEBIDANG ATAU PEER REVIEW
KARYA ILMIAH : JURNAL ILMIAH

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<thead>
<tr>
<th>Judul Jurnal Ilmiah (Artikel)</th>
<th>Study on collision between two ships using selected parameters in collision simulation</th>
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<tbody>
<tr>
<td>Jumlah Penulis</td>
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<tr>
<td>Status Pengusul</td>
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<tr>
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<td>b. Nomor ISSN: ISSN : 1671-9433 (Print) 1993-5048 (Online)</td>
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<td>d. Penerbit: Springer Link, Harbin Engineering University</td>
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<td>e. DOI artikel (jika ada): <a href="https://doi.org/10.1007/s11804-016-1341-2">https://doi.org/10.1007/s11804-016-1341-2</a></td>
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<td>Jurnal Ilmiah Internasional [✓]  Jurnal Ilmiah Nasional Terakreditasi  Jurnal Ilmiah Nasional Tidak Terakreditasi</td>
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<th>Nilai Rata-rata</th>
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<td>Reviewer II</td>
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<td>38,50</td>
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Semarang, 20 Juni 2019

Ojo Kurdi, S.T., M.T., Ph.D
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Unit Kerja : S1 Teknik Perkapalan FT UNDIP
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HASIL PENILAIAN SEJAWAT SEBIDANG ATAU PEER REVIEW
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Jumlah Penulis : 5 orang
Status Pengusul : penulis ke-5
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d. Penerbit : Springer Link, Harbin Engineering University
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Alamat Artikel : http://eprints.undip.ac.id/72066/1/Volume_15%2C_Issue _1%2C_pp_63%E2%80%9372.pdf
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Nilai Pengusul = (40% x 38,50)/4 = 3,85

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4. Kelengkapan unsur dan kualitas terbitan; Jurnal mempunyai reputasi terbitan yang cukup baik, dengan terindeks Scopus Q3, SJR 0.5 dan indeks Similarity Turnitin 9%.

Semarang, 20 Juni 2019
Reviewer 1

Dr.Eng. Hartono Yudo, S.T., M.T.
NIP. 197510211999031004
Unit Kerja : S1 Teknik Perkapalan FT UNDIP
LEMBAR
HASIL PENILAIAN SEJAWAT SEBIDANG ATAU PEER REVIEW
KARYA ILMIAH : JURNAL ILMIAH

Judul Jurnal Ilmiah (Artikel) : Study on collision between two ships using selected parameters in collision simulation
Jumlah Penulis : 5 orang
Status Pengusul : penulis ke-5
Identitas Jurnal Ilmiah :
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  b. Nomor ISSN : ISSN : 1671-9433 (Print) 1993-5048 (Online)
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Nilai Pengusul = (40% x 38,00)/4 = 3,80

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4. Kelengkapan unsur dan kualitas terbitan:
   Jurnal memenuhi unsur terbitan dan kualitas jurnal cukup baik dengan terindeks Scopus Q3, indeks similarity 9% dan SJR 0.5.
Study on collision between two ships using selected parameters in collision simulation

Bae, D.-M.¹, Prabowo, A.R.², Cao, B.³, Zakki, A.F.⁴, Haryadi, G.D.⁵

¹Department of Naval Architecture and Marine Systems Engineering, Pukyong National University, Nam-gu Daeyon Busan, 48513, South Korea
²Interdisciplinary Program of Marine Convergence Design, Pukyong National University, Nam-gu Daeyon Busan, 48513, South Korea
³Department of Mechanical Engineering, Diponegoro University, Semarang, Central Java, 50275, Indonesia

Abstract

In the present analysis, several parameters used in a numerical simulation are investigated in an integrated study to obtain their influence on the process and results of this simulation. The parameters studied are element formulation, friction coefficient, and material model. Numerical simulations using the non-linear finite element method are conducted to produce virtual experimental data for several collision scenarios. Pattern and size damages caused by collision in a real accident case are assumed as real experimental data, and these are used to validate the method. The element model study performed indicates that the Belytschko-Tsay element formulation should be recommended for use in virtual experiments. It is recommended that the real value of the friction coefficient for materials involved is applied in simulations. For the study of the material model, the application of materials with high yield strength is recommended for use in the side hull structure. © 2016, Harbin Engineering University and Springer-Verlag Berlin Heidelberg.

SciVal Topic Prominence

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collision accident | collision parameter | hull structure | non-linear finite element | ship collision

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Source Type: Journal
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(2018) AIP Conference Proceedings

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