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HASIL PENILAIAN SEJAWAT SEBIDANG ATAU PEER REVIEW
KARYA ILMIAH : PROSIDING

Judul Karya Ilmiah (Prosiding) : Validation of the tail replacement method in MTF calculations using the homogeneous and non-homogeneous edges of a phantom

Jumlah Penulis : 5 orang

Status Pengusul : Penulis pertama/ Penulis ke / Penulis Korespondensi **

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b. Nomor ISSN : 1742-6588, 1742-6596
c. Tahun terbit, tempat pelaksana : 2019, Kuala Lumpur Malaysia
d. Penerbit : IOP Publishing
e. Alamat web jurnal : <https://iopscience.iop.org/journal/1742-6596>
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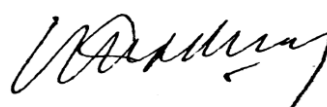
Semarang, 1 Desember 2021

Reviewer 1



Prof. Dr. Drs. Muhammad Nur, DEA
NIP. 195711261990011001
Bidang ilmu/Unit kerja : Fisika/Fakultas Sains dan Matematika

Reviewer 2



Dr. Drs. Catur Edi Widodo, M.T.
NIP. 196405181992031002
Bidang ilmu/Unit kerja : Fisika/Fakultas Sains dan Matematika

**LEMBAR
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	Internasional ☒	Nasional ☐	
a. Kelengkapan unsur isi prosiding (10%)	3		3
b. Ruang lingkup dan kedalaman pembahasan (30%)	9		8,8
c. Kecukupan dan kemutakhiran data/informasi dan metodologi (30%)	9		8,8
d. Kelengkapan unsur dan kualitas terbitan /prosiding (30%)	9		9
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Semarang, 29 Desember 2021
Reviewer 1



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Bidang Ilmu: Fakultas Sains dan Matematika

**LEMBAR
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Hasil Penilaian Peer Review :

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	Internasional ☒	Nasional ☐	
a. Kelengkapan unsur isi prosiding (10%)	3		3
b. Ruang lingkup dan kedalaman pembahasan (30%)	9		8,5
c. Kecukupan dan kemutakhiran data/informasi dan metodologi (30%)	9		8,6
d. Kelengkapan unsur dan kualitas terbitan /prosiding (30%)	9		9
Total = (100%)	30		29,1
Nilai Pengusul = 60% x (29,1) = 17,46			

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1. Kesesuaian dan kelengkapan unsur isi jurnal:

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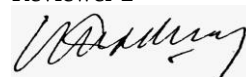
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Semarang, 23 Nopember 2021

Reviewer 2



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Validation of the tail replacement method in MTF calculations using the homogeneous and non-homogeneous edges of a phantom

Anam C.^a ✉, Budi W.S.^a, Fujibuchi T.^b, Haryanto F.^c, Dougherty G.^d

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An improvement in automatic MTF measurement in CT images using an edge of the PMMA phantom

Zabilal Hak, E. , Anam, C. , Setia Budi, W.
(2020) *Journal of Physics: Conference Series*

Automated MTF measurement in CT images with a simple wire

Abstract

We validated the tail replacement technique in the modulation transfer function (MTF) calculation of CT images using edges of homogeneous and non-homogeneous phantom using an automated method. The algorithm for the automated MTF calculation consists of several steps. The upper edge of the phantom was detected from its axial image and pixel values were taken to create an edge spread function (ESF). The left tail of the ESF was flipped horizontally to replace the right tail. Differentiating the ESF produced a line spread function (LSF) which was Fourier transformed to produce the MTF. To validate the result for the non-homogeneous phantom was compared with that for a homogeneous phantom. Results showed that in the homogeneous module, the MTF curve generated without tail replacement corresponded to its shape in use. However for the non-homogeneous module, the MTF obtained without tail replacement differed considerably from its shape in use. The 50% value of MTF (MTF-50) without tail replacement was 0.44 cycles/mm compared to 0.33 cycles/mm in use. Using the tail replacement, the MTFs in the homogeneous and non-homogeneous modules were comparable, with MTF-50 values of 0.33 cycles/mm for both. In summary, the MTF cannot be conventionally measured from the edge of the non-homogeneous module, but it can be resolved using the tail replacement technique on the ESF curve. © Published under licence by IOP Publishing Ltd.

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Accepted papers received: 21 April 2019

Published online: 06 June 2019

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Preface

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Validation of the tail replacement method in MTF calculations using the homogeneous and non-homogeneous edges of a phantom

C Anam, WS Budi, T Fujibuchi, F Haryanto and G Dougherty

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J Inamarga, N de Vera and J Dungao

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Preface

The 18th Asia-Oceania Congress of Medical Physics (AOCMP) in conjunction with the 16th South-East Asia Congress of Medical Physics (SEACOMP) was held in Kuala Lumpur from 11 to 14 November 2018. The annual event is aimed to gather medical physics communities in the Asia-Oceania region for the sharing of knowledge, expertise, scientific discussions, cultural exchange and updates of medical physics activities. Besides, the event is a platform for the establishments of regional education, training and professional developments in medical physics and for the advancement in status and standard of practice of the medical physics profession in the region. The theme for this congress is “A Sustainable Future for Medical Physics”. This is the second time the congress is held in Malaysia. The first AOCMP organised in Malaysia was in year 2004.

300 abstracts from 28 countries were accepted for the congress, 151 were oral contributions and 149 were posters. The congress also had many invited lectures by international and local experts. The congress was divided into three main themes; imaging, therapy and others (including radiobiology and radiation protection).

83 papers are included in this proceedings volume organised into the three main themes (1) imaging: CT dose optimisation & image quality, non-ionising imaging, nuclear medicine imaging, radiography, mammography and tomosynthesis; (2) therapy: radiotherapy dose verification, radiotherapy image guidance & motion management, quality assurance & commissioning, treatment planning, particle therapy, brachytherapy; and (3) others: medical physics education, radiation detector, radiation protection & safety, radiobiology & biophysics.

All articles published in this volume of Journal of Physics: Conference Series have been peer reviewed through processes administered by the proceedings Editors. Each article was peer-reviewed by at least two reviewers from the scientific committee and appointed reviewers based on their field of expertise. Reviews were conducted by expert referees to the professional and scientific standards expected of a proceedings journal published by IOP Publishing.

Many thanks to all invited speakers, oral presenters and poster presenters for their participation and to the Organising Committee members for all their hard work in making the congress happen. Thanks to all authors who submitted the manuscript of the work presented at the congress to be included in the volume. The Scientific Committee members and reviewers are also thanked for reviewing the submitted manuscripts and improve the scientific quality of this proceedings. Finally, thanks to all who attended the congress and the sponsors for their financial support.

Editors, Proceedings of AOCMP SEACOMP 2018

Hafiz M Zin, Universiti Sains Malaysia

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Choirul Anam

for attending the **18th AOCMP & 16th SEACOMP**
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