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HASIL PENILAIAN SEJAWAT SEBIDANG ATAU PEER REVIEW
KARYA ILMIAH : PROSIDING

Judul Karya Ilmiah (Prosiding) : Automated patient position in CT examination using a Kinect camera
 Jumlah Penulis : 4 orang
 Status Pengusul : ~~Penulis pertama~~/ Penulis ke 2/ Penulis Korespondensi **
 Identitas Jurnal Ilmiah : a. Nama prosiding : Journal of Physics: Conference Series
 b. Nomor ISSN : 1742-6588, 1742-6596
 c. Tahun terbit, tempat pelaksana : 2020, Bali Indonesia
 d. Penerbit : IOP Publishing
 e. Alamat web jurnal : <https://iopscience.iop.org/journal/1742-6596>
 f. Terindeks di Scimagojr/Scopus ~~atau~~ di... **

Kategori Publikasi Jurnal : ☒ Prosiding Ilmiah Internasional **
 Ilmiah (beri ✓ pada kategori yang tepat) ☐ Prosiding Nasional Terakreditasi

Hasil Penilaian *Peer Review* :

Komponen Yang Dinilai	Nilai Reviewer		Nilai Rata-rata
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c. Kecukupan dan kemutakhiran data/informasi dan metodologi (30%)	6,5	7,5	7,5
d. Kelengkapan unsur dan kualitas penerbit (30%)	8	8,4	7,75
Total = (100%)	23,3	27,1	25,2
Nilai untuk Pengusul : (40% x 25,2) = 10,08			

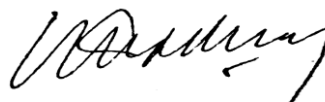
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Prof. Dr. Drs. Muhammad Nur, DEA
 NIP. 195711261990011001
 Bidang ilmu/Unit kerja : Fisika/Fakultas Sains dan Matematika

Reviewer 2



Dr. Drs. Catur Edi Widodo, M.T.
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c. Kecukupan dan kemutakhiran data/informasi dan metodologi (30%)	9		6,5
d. Kelengkapan unsur dan kualitas terbitan /prosiding (30%)	9		8
Total = (100%)	30		23,3
Nilai Pengusul = 40% x (23,3) = 9,32			

1. Kelengkapan unsur isi jurnal:

Pendahuluan cukup baik dan menggambarkan pentingnya penelitian. Artikel telah ditulis sesuai dengan Journal of Physics: Conference Series yang diterbitkan oleh IOP Publishing

2. Ruang lingkup dan kedalaman pembahasan:

Ruang lingkup bahasan sudah luas, hasil dan pembahasan sudah didiskusikan. Diskusi belum melibatkan hasil penelitian dari peneliti lain. Artikel baru menunjukkan metoda yang digunakan tanpa membandingkan hasilnya dengan peneliian sebelumnya .

3. Kecukupan dan kemutakhiran data/informasi dan metodologi:

Referensi sudah mutakhir. Metoda dapat dipahami oleh mereka yang ahli dibidang ini dan bisa direfleksasi. Diskusi belum melibatkan hasil penelitian dari peneliti lain. Artikel baru menunjukkan metoda yang digunakan tanpa membandingkan hasilnya dengan peneliian sebelumnya

4. Kelengkapan unsur dan kualitas terbitan:

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Semarang, 29 Desember 2021
Reviewer 1



Prof. Dr. Drs. Muhammad Nur, DEA
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 Bidang Ilmu: Fakultas Sains dan Matematika

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b. Ruang lingkup dan kedalaman pembahasan (30%)	9		8,5
c. Kecukupan dan kemutakhiran data/informasi dan metodologi (30%)	9		7,5
d. Kelengkapan unsur dan kualitas terbitan /prosiding (30%)	9		8,4
Total = (100%)	30		27,1
Nilai Pengusul = 40% x (27,1) = 10,84			

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1. Kesesuaian dan kelengkapan unsur isi jurnal:

Unsur isi jurnal sudah lengkap sesuai dengan tata cara penulisan yang memuat Title, Introduction, Materials and methods, Results and Discussion, Conclusion, Acknowledgement dan References. Substansi artikel sesuai bidang ilmu penulis pertama.

2. Ruang lingkup dan kedalaman pembahasan:

Substansi artikel yaitu tentang penggunaan kamera Kinect untuk mengatur posisi secara otomatis pada pemeriksaan CT Scan telah sesuai dengan ruang lingkup jurnal, dengan kedalaman pembahasan sangat baik

3. Kecukupan dan kemutakhiran data/informasi dan metodologi:

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4. Kelengkapan unsur dan kualitas terbitan:

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Semarang, 23 Nopember 2021

Reviewer 2



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Unit Kerja : Fisika

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Automated patient position in CT examination using a Kinect camera

Afrieda N.^a, Anam C.^a ✉, Setia Budi W.^a, Dougherty G.^b

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^a Department of Physics, Faculty of Mathematics and Natural Sciences, Diponegoro University, Jl. Prof. Soedarto SH, Tembalang, Semarang, Central Java, 50275, Indonesia

^b Department of Applied Physics and Medical Imaging, California State University Channel Islands, Camarillo, 93012, CA, United States

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Proper positioning of the patient in the CT examination is important. Patients who are not properly positioned at iso-center can affect the distribution of radiation dose. Every patient is unique, hence

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matching a center of the patient with the iso-center is not a trivial task. This study has developed a system for automatic patient centering using a Kinect camera located at the right or left side of a patient. A plastic water slab phantom was used for calibrating pixel value and pixel size for various distances. Twenty patients were automatically positioned by the Kinect camera and the results were compared to manually positioning by medical personnel. It was found that the value and size of the pixel depend on the Kinect camera-object distance. The value and size of pixels linearly increase with the increase of distance. The difference between the manual patient positioning by medical personnel and the automatic method by the Kinect camera was 1.80 ± 0.95 cm. The difference for the 6 patients was more than 2 cm, and for the 14 patients was less than 2 cm. Hence, the Kinect camera with automatic software can help in positioning patients automatically and accurately in real-time so that it can reduce time and effort in finding patient centers. © Published under licence by IOP Publishing Ltd.

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depth image; Patient centering; patient positioning

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✎ Anam, C.; Department of Physics, Faculty of Mathematics and Natural Sciences, Diponegoro University, Jl. Prof. Soedarto SH, Tembalang, Semarang, Central Java, Indonesia; email:anam@fisika.undip.ac.id
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