

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

Judul Jurnal Ilmiah (Artikel) : Volume Target Delineation for Brain Tumor in MRI Images Using Active Contour Segmentation Method

Nama/ Jumlah Penulis : Catur Edi Widodo, **Kusworo Adi**, Aris Sugiharto, Qidir Maulana B. S. dan Adi Pamungkas/ 5 orang

Status Pengusul : Penulis ke- 2

Identitas Jurnal Ilmiah :

- a. Nama Jurnal : International Journal of Applied Engineering Research
- b. Nomor ISSN : 0973-4562
- c. Vol, No., Bln Thn : 11, 16, 2016
- d. Penerbit : Research India Publications
- e. DOI artikel (jika ada) : -
- f. Alamat web jurnal : <https://www.ripublication.com/Volume/ijaerv11n16.htm>
- Alamat Artikel : <https://eprints2.undip.ac.id/390/1/2016-Volume%20Target%20Delineation%20for%20Brain%20Tumor%20in%20Mri%20Images%20Using%20Active%20Contour%20Segmentation%20Method.pdf>
- g. Terindex : EBSCOhost, GOOGLE Scholar, JournalSeek, J-Gate, ICI, Index Copernicus IC Value 82.67

Kategori Publikasi Jurnal Ilmiah (beri ✓ pada kategori yang tepat) :

✓	Jurnal Ilmiah Internasional
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	Jurnal Ilmiah Nasional Tidak Terakreditasi

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b. Ruang lingkup dan kedalaman pembahasan (30%)	5,90	5,70	5,80
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d. Kelengkapan unsur dan kualitas terbitan/jurnal (30%)	5,20	5,50	5,35
Total = (100%)	18,90	19,00	18,95

Semarang, 6 Mei 2020

Reviewer 1



Prof. Dr. Muhammad Nur, DEA
NIP. 195711261990011001
Unit Kerja : Departemen Fisika - FSM UNDIP

Reviewer 2



Prof. Dr. Heri Sutanto, SSi, MSi
NIP. 197502151998021001
Unit Kerja : Departemen Fisika - FSM UNDIP

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d. Kelengkapan unsur dan kualitas terbitan/jurnal (30%)	6,00			5,20
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Penulisan Artikel ini telah sesuai dengan format International Journal of Applied Engineering Research. Format sedikit berbeda dari dari artikel lain di journal yang sama. Kebaruan dari artikel ini juga sudah diutarakan dengan ekspilisit.

2. Ruang lingkup dan kedalaman pembahasan:

Arikel dengan ruang lingkup yang tidak begitu luas. Pembahasan pada metode yang dikembangkan. . Belum ada diskusi yang membandingkan dengan hasil peneliti lain.

3. Kecukupan dan kemutakhiran data/informasi dan metodologi:

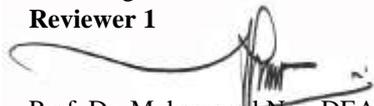
Referensi mutakhir. Metoda standard dan bisa direfleksikan oleh ahli sebidang. Data telah cukup mutakhir dan pembahasan masih sangat kurang.

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International Journal of Applied Engineering Research yang diterbitkan oleh Research India Publications telah tdk terindeks scopus 2011-2017 (cancelled). Penerbitan tidak baik. Tata letak kurang tertata. Masih terdapat skema penelitian yang seharusnya merupakan naratif Jadi tergolong pada journal yang tidak terindeks scopus jadi nilai maksimumnya 20.

Semarang, 6 Mei 2020

Reviewer 1



Prof. Dr. Muhammad Nur, DEA

NIP. 195711261990011001

Unit Kerja : Departemen Fisika - FSM UNDIP

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a. Kelengkapan unsur isi jurnal (10%)	2,00			2,00
b. Ruang lingkup dan kedalaman pembahasan (30%)	6,00			5,70
c. Kecukupan dan kemutakhiran data/informasi dan metodologi (30%)	6,00			5,80
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2. Ruang lingkup dan kedalaman pembahasan:

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3. Kecukupan dan kemutakhiran data/informasi dan metodologi:

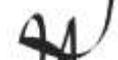
Data penelitian yang diinformasikan pada artikel sangat memadai dan relevan sesuai metodologi yang dilakukan. Artikel didukung dengan 15 referensi, 4 referensi kategori tidak mutakhir. Hasil uji similaritas artikel baik yaitu 11%.

4. Kelengkapan unsur dan kualitas terbitan:

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Semarang, 6 Mei 2020

Reviewer 2



Prof. Dr. Heri Sutanto, SSi, MSi

NIP. 197502151998021001

Unit Kerja : Departemen Fisika - FSM UNDIP

International Journal of Applied Engineering Research (IJAER)

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Editor-in-Chief:

Prof. Dr. Eng. Ali MERDJI,

Faculty of Science and Technology,
Route de Mamounia,
University of Mascara,
B.P 305, Mascara (29000),
Algeria.



Aims and Scope: The *International Journal of Applied Engineering Research (IJAER)* is an international research journal, which publishes top-level work from all areas of Engineering Research and their application including Mechanical, Civil, Electrical, Computer Science and IT, Chemical, Electronics, Mathematics, Environmental, Education Geological etc. Researchers in all technology and engineering fields are encouraged to contribute articles based on recent research. Journal publishes research articles and reviews within the whole field of Engineering Research, and it will continue to provide information on the latest trends and developments in this ever-expanding subject.

Audience: Mechanical, computer, aeronautical, chemical, civil, electronics, mathematic, geology, electrical.

Submission: Authors are requested to submit their papers electronically to IJAERditor@gmail.com

INDEXING: SCOPUS(2010-2017), EBSCOhost, GOOGLE Scholar, JournalSeek, J-Gate, ICI, Index Copernicus IC Value 82.67 and **UGC Approved Journal - 2017 (Journal No. - 64529)**

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Area of Interest : Nanotechnology, Environmental And Green Materials, Cellulose Derivatives, Materials Characterization And Materials Science & Engineering

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Area of Interest : Internet Of Things & Big Data Analysis, Wireless Communication 4G, 5G And Beyond, Microwave Remote Sensing, Space-Borne – Airborne Platforms And Calibration And Validation Measurements.

Dr. Asim Datta, Associate Professor & Head, Dept. Of Electrical Engineering, Mizoram University (A Central University), Tanhril, Aizawl-796004, Mizoram

Area of Interest : Electrical Power Systems, Renewable Energy Sources, Embedded Systems

Pranav Mahamuni, Research Assistant, Department Of Mechanical Engineering, Stony Brook University, Stony Brook, New York, United States Of America

Area of Interest : Mechanical Engineering - Cad/Cam, Product Design, Rapid Prototyping, Finite Element Analysis

Dr. Diego Bellan, Professor, Department Of Electronics, Information And Bioengineering, Politecnico Di Milano, Piazza Leonardo Da Vinci 32, 20133, Milan, Italy

Area of Interest : Power Quality, Electromagnetic Compatibility

Dr. Claudia Espro, Assistant Professor, Department Of Engineering, Contrada Di Dio, 4° Piano, Blocco C, 98166 Messina, Italy

Area of Interest : Heterogeneous Catalysis And Development Of Novel Catalytic Green Processes. Catalytic Conversion Of Natural Gas And Light Alkanes Into Intermediates, Fuels And Chemicals Of Higher Added Value. Conversion Of Renewable Biomass For The Production Of Bulk Chemicals, Electrochemical Sensors

Dr. Massila Kamalrudin, Deputy Dean, Associate Professor, Faculty of Information Technology and Communication , Institute of Technology Management and Entrepreneurship, Universiti Teknikal Malaysia Melaka Malaysia

Area of Interest : ICT, software engineering

Dr. Nilamadhab Mishra, Assistant Professor, School Of Computing, Debre Berhan University, Ministry of Education, Government of Ethiopia.

Area of Interest : Encompass Network Centric Data Management, Data

Science: - Analytics and Applications, CIoT Big-Data System, and Cognitive Apps Design & Explorations.

Dr. Liew Pay Jun, Senior Lecturer, Department Of Manufacturing Process, Faculty Of Manufacturing Engineering, Universiti Teknikal Malaysia Melaka, Durian Tunggal, Melaka, Malaysia.

Area of Interest : Electrical discharge machining, machining, micro/nano machining, nanofluid

Dr. G.PARAMASIVAM , Associate Professor, Department Of Computer Science, KG COLLEGE OF ARTS AND SCIENCE, Tamil nadu, India.

Area of Interest : Image processing, Computer Network

Dr. Ch. Swapna Priya, Assistant Professor, Department Computer Science And Engineering, Vignans institute of Information Technology, Visakhapatnam, Andhra Pradesh, India.

Area of Interest : Image processing, Pattern recognition deep learning, machine learning

Dr. K. Sangeetha, Assistant Professor, Department Of Computer Science & Engineering, SNS College of Technology, Coimbatore, Tamilnadu, India.

Area of Interest : Theory of computation, Computer Networks, Advanced Computer Architecture, Operating Systems, Computer Programming, Network Security, Object Oriented Analysis and Design and Data Base Management System

Dr. Deepali Gupta, Professor And Head, Department Of Computer Science & Engineering, Maharishi Markandeshwar University, Sadopur, Sadopur, Ambala, India.

Area of Interest : Computer Engineering & Information Technology, Software Engineering, Genetic Algorithms and Cloud Computing

Dr. Ghassan Fadhil Smaisim, Associate Professor, Department of Mechanical Engineering, University of Kufa, Faculty of Engineering, Kufa, P.O. Box: 21, Najaf Government.

Area of Interest : Enhancement Heat Transfer, Renewable Energy, Fluid Mechanics, Thermal Nanofluid Flow, Power Generation, Solar Energy, CFD.

Dr. Darshankumar Chandrakant Dalwadi, Associate Professor, Department of Electronics and Communication Department, Birla Vishvakarma Mahavidyalaya Engineering College, Post Box No. 20

Area of Interest : Digital Communication, Wireless Communication and M Tech Information Theory and Coding

Jong-Wook Lee, Electrical & Computer Engineering, Ajou University, Worldcupro 206, Yeongtong-gu. 16499, Geonggi-do, **South Korea**

Area of Interest: I Device structure and materials for sub-0.5V voltage operation, I Scaling-down enabling technology, I Low-power, high-speed devices and circuits.

Mohd Hafiz bin Jali, Faculty of Electrical Engineering, Universiti Teknikal Malaysia Melaka, Hang Tuah Jaya, 76100, Melaka, **Malaysia**

Area of Interest: Control system, Signal Processing, Rehabilitation, Human assist technology. Pattern Recognition, Robotic.

Timon Rabczuk, Chair of Computational Mechanics, Bauhaus University Weimar, Marienstrasse 15, 99423 Weimar, **Germany**

Hacene Mahmoudi, Vice Rector for Animation, promotion of scientific research, Hassiba Benbouali University, B.P. 151, Chlef, **Algeria**

Mircea Cristian DUDESCU, Technical University of Cluj-Napoca, Faculty of Mechanical Engineering, Department of Mechanical Engineering, B-dul Muncii 103-105, 400641 Cluj-Napoca, **Romania**

Area of interest: mechanics of materials, experimental mechanics, mechanical testing, structural analysis of MEMS.

Rajeev Ahuja, Physics Department, Uppsala University, Box 530, 751 21 Uppsala, **Sweden**

Area of interest: Computational Materials Science, Electronic Materials, Spintronics, High pressure, Dynamics.

Shigeru Aoki, Department of Mechanical Engineering, Tokyo Metropolitan College of Technology, Shinagawa-ku, Tokyo 140-0011, **Japan**

Area of Interest: Random vibration, Seismic response of mechanical system, Approximate analysis of nonlinear vibration.

G.Q. Chen, Department of Mechanics and Engineering science, Peking University, Beijing 100871, **China**

Area of Interest: CFD (Computational fluid dynamics), energy and resources engineering, and systems ecology.

Anna Laura Pisello, Department of Engineering, CIRIAF – Interuniversity Research Center, University of Perugia, **Italy**

Dr. Jahar Sarkar, Department of Mechanical Engineering, IIT (BHU) Varanasi, UP-221005, **India**
Area of Interest: Energy, Thermal & Fluid Engineering.

Verena Kantere, Centre Universitaire d'Informatique, University of Geneva, Bâtiment A, Route de Drize 7, 1227 Carouge, **Switzerland**

Kong Fah TEE, Department of Engineering Science, University of Greenwich, Central Avenue, Chatham Maritime, Kent ME4 4TB **United Kingdom**
Area of Interest: Structural Health Monitoring and Management, Structural System Identification and Life Prediction, Forensic Engineering.

B.T.F. Chung, Department of Mechanical Engineering, University of Akron, Akron, Ohio 44325, **USA**
Area of interest: Heat Transfer with Phase Changes, Optimum Design of Extended Surfaces, Radiative Heat Transfer System.

Marcelo J.S. De Lemos, Departamento de Energia - IEME, Instituto Tecnológico de Aeronáutica - ITA, 12228-900 Sao Jose dos Campos S.P. - **Brazil**
Area of interest: Turbulence Modeling, Porous Media, Combustion in Porous Media, Numerical Methods, Finite Volume.

Dimitris Drikakis, Head of Aerospace Sciences Department, Cranfield University, School of Engineering, Cranfield, MK43 0AL, **United Kingdom**
Area of Interest: Computational Fluid Dynamics, Aerodynamics, Turbulence Gas dynamics, Computational Nanotechnology.

A.S. Al-Harthy, Department of Civil, Surveying and Environmental Engineering, University of Newcastle, Callaghan, NSW 2308 **Australia**
Area of interest: Concrete material and durability, Recycling construction materials, reliability assessment of structures.

S.Z. Kassab, Mechanical Engineering Department, Faculty of Engineering, Alexandria University, Alexandria, 21544 **Egypt**
Area of Interest : Experimental Fluid Mechanics, Lubrication, Energy, Environment and Pollution.

Bashar El-Khasawneh, Chairman, Industrial Engineering Department, JUST, P.O. Box 3030, Irbid 22110 **Jordan**
Area of Interest: Design process and manufacturing-related sciences and processes, advanced and parallel kinematics machine tools.

Kazuhiko Kudo, Laboratory of Micro-Energy Systems, Division of Human Mechanical Systems and Design, Graduate School of Engineering, Hokkaido University, **Japan**
Area of interest: Radiative heat transfer analysis, transient analysis on surface tension.

Carlos Mario Morales Bautista, Calzada Olmeca 105. Cerrada Chiltepec No. 1. Fraccionamiento la Venta. Villa Parrilla II. C.P. 86280. Villahermosa, Centro, Tabasco, **Mexico**

Ihab Obaidat, Department Of Physics, College of Science, United Arab Emirates University, P.O. Box 15551, Al Ain, **UAE**

Area of Interest: Nanomagnetism, Superconductivity.

Huihe QIU, Department of Mechanical Engineering, The Hong Kong University of Science and Technology, Clear Water Bay, Kowloon **Hong Kong**

Area of Interest: Transport phenomena in microscale multiphase flows, micro sensors and actuators, optical diagnostics and instrumentation.

S.A. Soliman, Electrical Engineering Department, University of Qatar, P. O. Box 2713 Doha **Qatar**

Area of Interest: Applications of State Estimation to Electric Power Systems, Fuzzy and Neural System Applications to Electric Power Systems.

Dimitri V. Val, Dept. of Structural Engineering, Faculty of Civil and Environmental Engineering, Technion - Israel Institute of Technology, Haifa 32000, **Israel**

Area of Interest: structural safety and reliability; analysis, design, and assessment of reinforced concrete and steel structures.

Guo-Xiang Wang, Department of Mechanical Engineering, The University of Akron, Akron OH 44325-3903 **USA**

Area of Interest: Heat and Mass Transfer, Materials Processing, Solidification Theory and Application.

Samir Mekid, Mechanical Engineering Department, King Fahd University of Petroleum and Minerals PO Box 155, Dhahran, 31261, **Saudi Arabia**

Abdul Razak Rehmat, Department of Bioprocess & Polymer Engineering, Faculty of Chemical & Energy Engineering, Universiti Teknologi Malaysia, 81310 Johor Bahru, **Malaysia**

Area of Interest: Polymer Processing and Rheology, Biobased Polymer Composite, Microwave Processing of Polymer.

V.R. Mudinepalli, Department of Physics, National Taiwan Normal University, Taipei, 11677, **Taiwan.**

Damodar Maity, Civil Engineering Department Indian Institute of Technology, Kharagpur, West Bengal, **India**

Area of Interest: Damage Assessment of Structures; Seismic Resistant of Structures; Fluid-Structure Interaction; Sloshing; Concrete Gravity Dam.

NG EYK, School of Mechanical & Aerospace Engineering, Nanyang Technological University, 50 Nanyang Avenue, 639798 **Singapore**

Area of Interest: biomedical engg; computational fluid dynamics and numerical heat transfer.

Mohammad Luqman, Chemical Engineering Department King Saud University Chemical Engineering Department, Riyadh, **Saudi Arabia**

Area of Interest: Polymer Nanocomposites, Polymer/Plastic, Ionomers, Nanocomposites.

Mohammad Valipour, Department of Irrigation and Drainage Engineering, College of Abureyhan, University of Tehran, Pakdasht, Tehran, **Iran**

Area of Interest: Surface and pressurized irrigation, Drainage engineering, Fluid mechanics, Heat transfer in soil media.

Najm Obaid Salim Alghazali, Department of Civil Engineering, Babylon University, Hilla, Babylon, **Iraq**

Area of Interest: Hydraulic Structures, Hydraulics, Engineering Hydrology, Groundwater Hydrology, Dams Engineering.

Sushant K. Singh, Earth and Environmental Studies Department, Montclair State University, Montclair, 07043, New Jersey, **USA**

Area of Interest: Environmental pollution, Environmental management, Environmental toxicology, Environmental policy.

Hongseok Choi, Department of Mechanical Engineering, Clemson University, 205 Fluor Daniel Bldg. Clemson, SC 29634 **USA**

Ling Zhou, National Research Center of Pumps, Jiangsu University, No.301 Xuefu Road, Zhenjiang, Jiangsu 212013, **China**

Area of Interest : Fluids Engineering, Multiphase flow, CFD (Computational Fluid Dynamics).

Dr. Jongwan Kim, Al-Farabi Kazakh National University, Almaty, Kazakhstan, Senior Lecturer

Area of Interest : Computer and network security, it management, digital forensics, cryptocurrency, blockchain

Marlen Bissaliye, Al-Farabi Kazakh National University, Almaty, Kazakhstan, Senior Lecturer

Area of Interest : Computer and network security, it management, digital forensics, cryptocurrency, blockchain

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India - SIR Ranking of India

Engineering
Engineering (miscellaneous)

Publisher

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Publication type

Journals

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Coverage

2011-2017 (cancelled)

Scope

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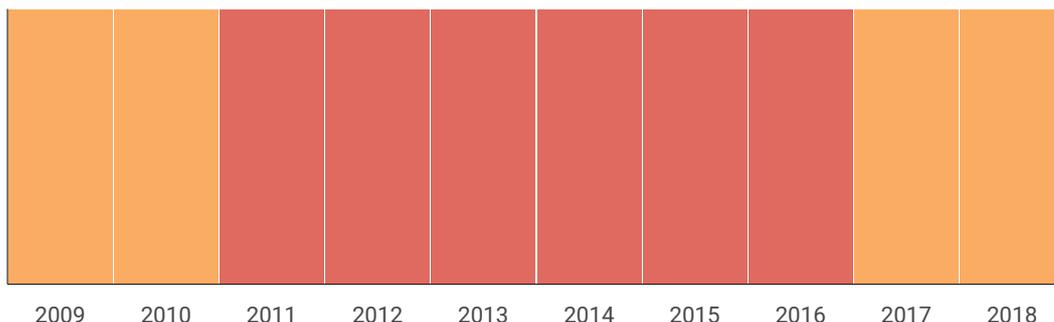
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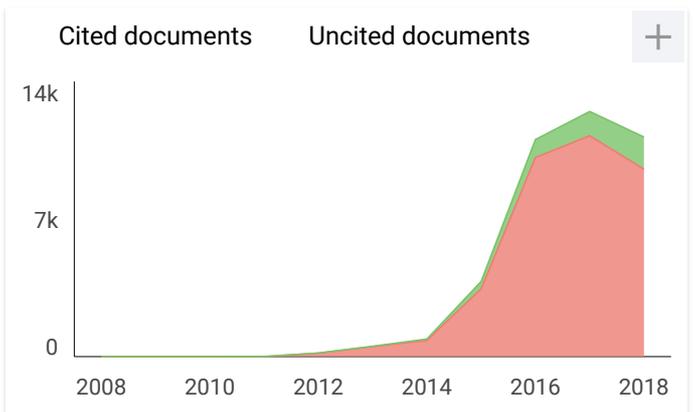
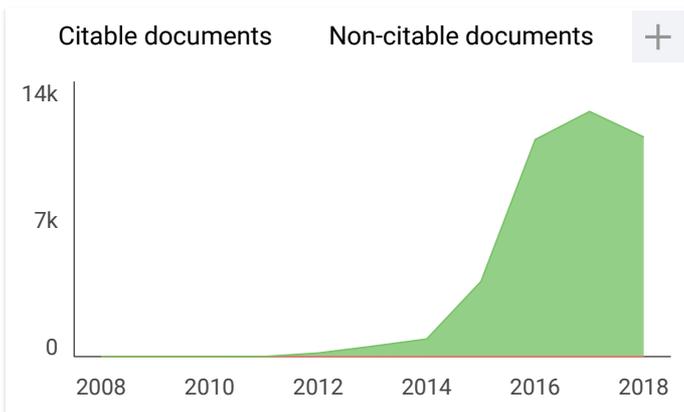
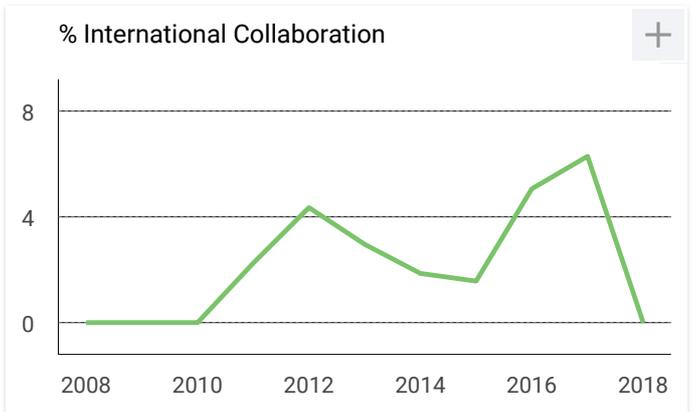
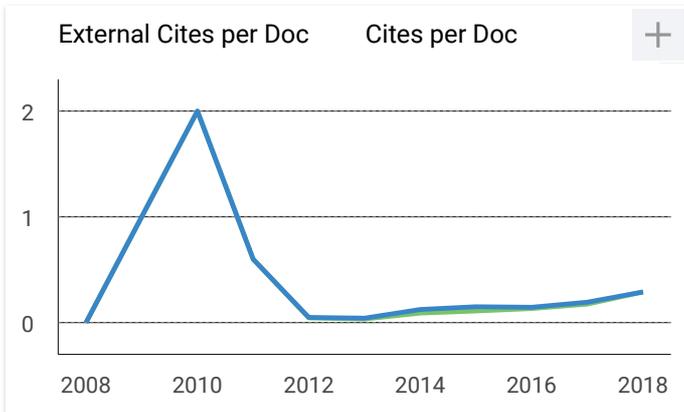
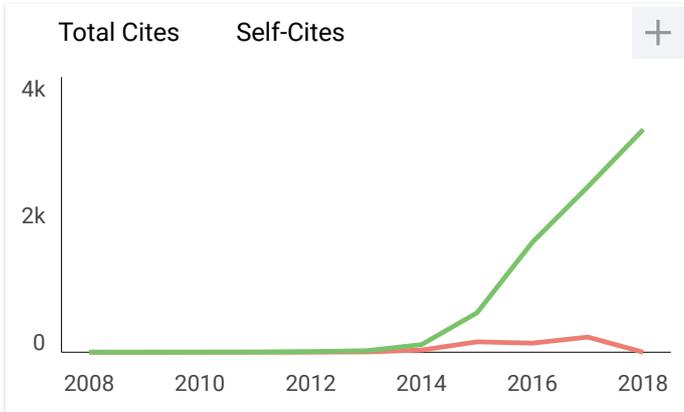
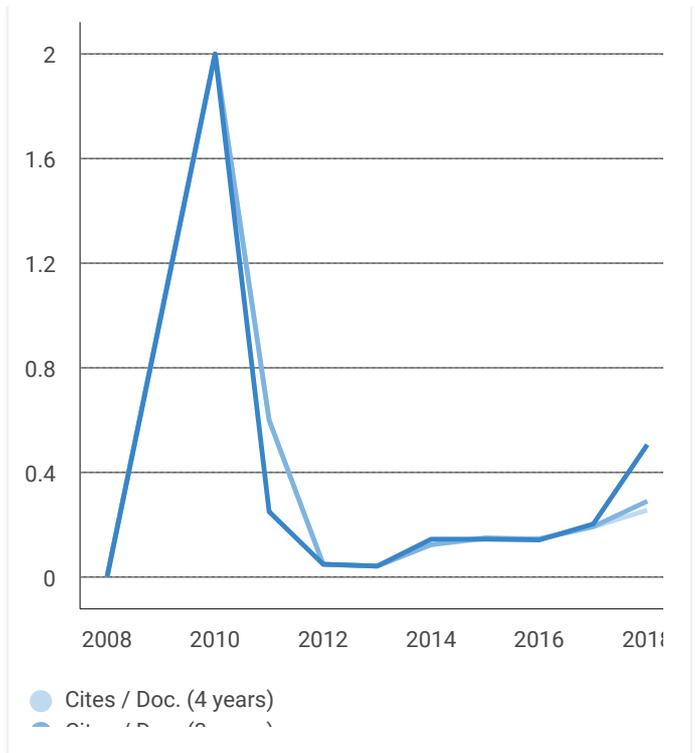
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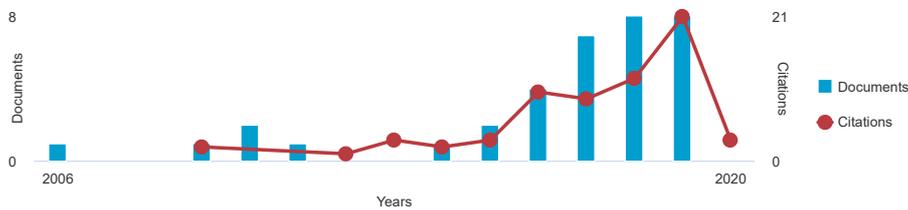
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International Journal of Applied Engineering Research
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Volume target delineation for brain tumor in MRI images using active contour segmentation method (Article)

Widodo, C.E.^a ✉, Adi, K.^a, Sugiharto, A.^b, Qidir Maulana, B.S.^a, Pamungkas, A.^a

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Abstract

Radiotherapy is a tumor treatment process using high dose of radiation. Hence, it is essential that radiotherapy is carefully planned with a Treatment Planning System (TPS). The first step in TPS is delineation that aims to get a better picture of the tumor and the target volume value. This research investigated volume target delineation for brain tumor against the MRI image of the head in axial position. Calculated target volumes include GTV (Gross Tumor Volume), CTV (Clinical Target Volume), PTV (Planning Target Volume), and OAR (Organ at Risk). Images were segmented using the active contour method. Segmentation result from each Slice is then calculated for its area, which then in turn, integrated to get the target volume. This research yields calculated volume and 3D visualization of each target. These two parameters are parts of a Treatment Planning System (TPS) used as a guideline in radiotherapy. © Research India Publications.

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