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Judul Jurnal Ilmiah (Artikel) : Beef Quality Identification Using Thresholding Method and Decision Tree Classification Based on Android Smartphone

Nama Penulis/ Jumlah Penulis : **Kusworo Adi**, Sri Pujiyanto, Oky Dwi Nurhayati, Adi Pamungkas/ 4 orang

Status Pengusul : Penulis ke-1

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- a. Nama Jurnal : Journal of Food Quality
- b. Nomor ISSN : eISSN: 1745-4557 pISSN: 0146-9428
- c. Vol, No., Bln Thn : 2017 ID 1674718, Oktober 2017
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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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Semarang, 6 Mei 2020

Reviewer 1



Prof. Dr. Muhammad Nur, DEA

NIP. 195711261990011001

Unit Kerja : Departemen Fisika - FSM UNDIP

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Semarang, 6 Mei 2020

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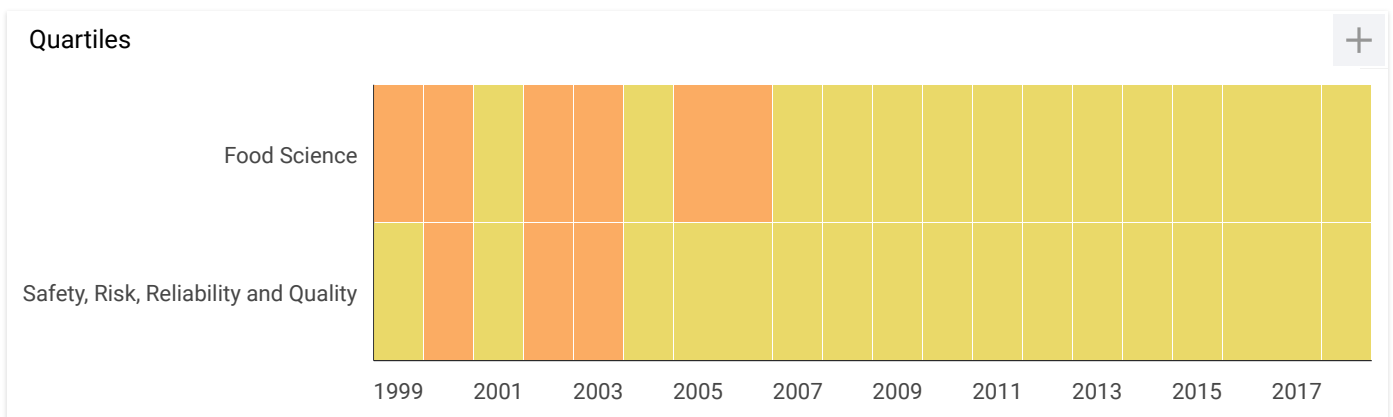
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Journal of Food Quality ⁸

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Country	United Kingdom - IIII SIR Ranking of United Kingdom
Subject Area and Category	Agricultural and Biological Sciences Food Science Engineering Safety, Risk, Reliability and Quality
Publisher	Hindawi Limited
Publication type	Journals
ISSN	17454557, 01469428
Coverage	1977-1980, 1993, 1996-ongoing
Scope	This is the only scientific, peer-reviewed journal explicitly devoted to issues of food quality. Readers will discover articles on the handling of food from a quality and sensory perspective. Every issue is teeming with research papers, and "research notes," a section which provides readers with a new perspective or application on existing methodology. International in scope and including quality related to medical and functional foods in real-time rapid measurement, this is the must-have publication for scientists and graduate students. Sign up to receive your copy today!
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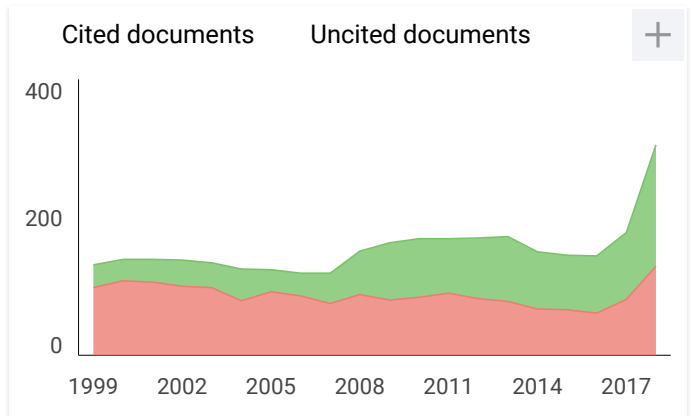
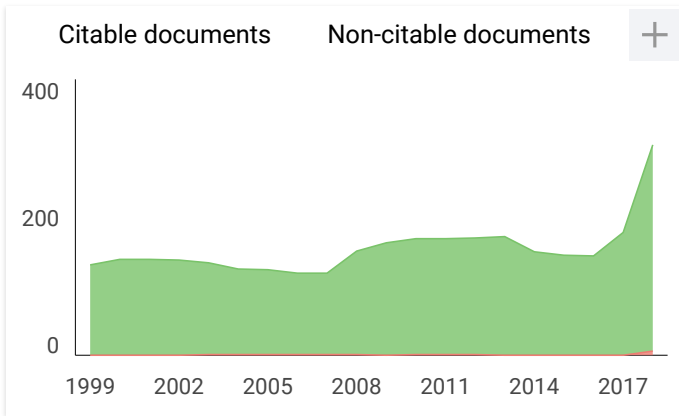
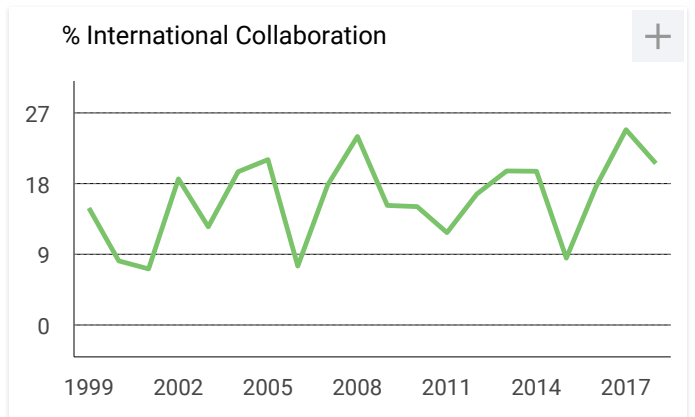
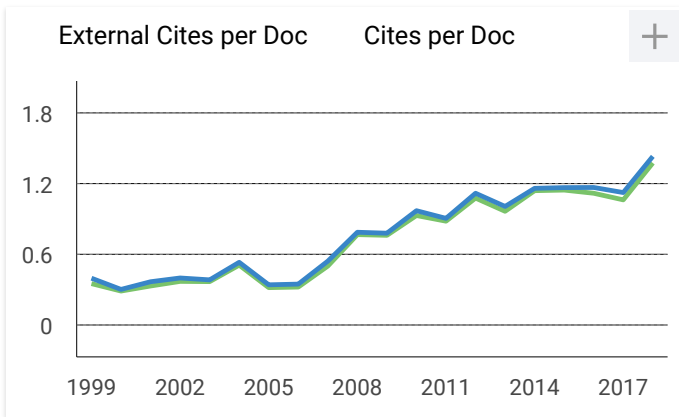
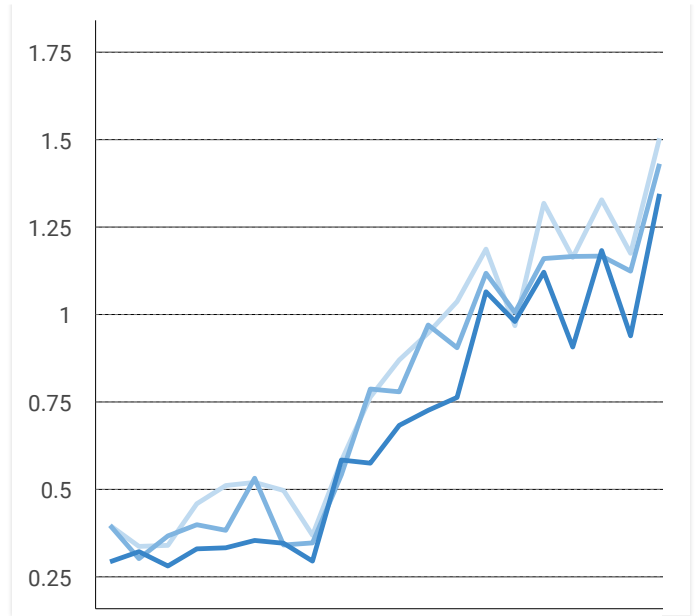
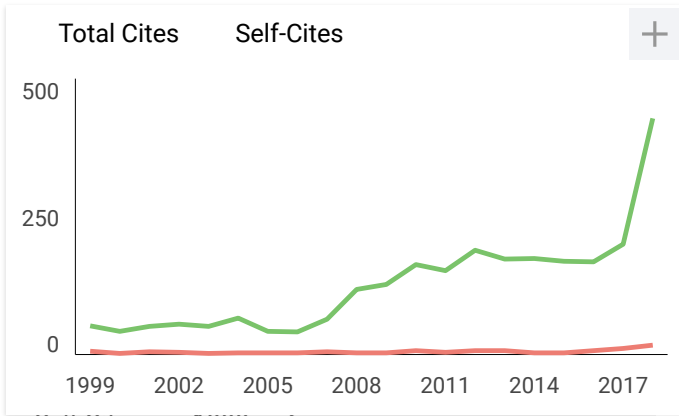


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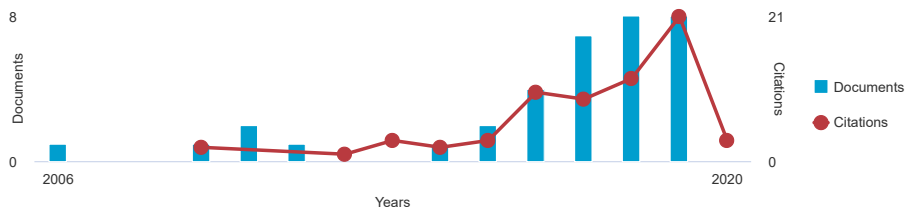
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8 February 2016, Article number 7401359, Pages 180-184
4th International Conference on Instrumentation, Communications, Information Technology and Biomedical Engineering, ICICI-BME 2015; Institut Teknologi BandungBandung; Indonesia; 2 November 2015 through 3 November 2015; Category numberCFP1587H-ART; Code 119394

Beef quality identification using color analysis and k-nearest neighbor classification (Conference Paper)

Adi, K.^a ✉, Pujiyanto, S.^b, Nurhayati, O.D.^c, Pamungkas, A.^a

^aDepartment of Physics, Diponegoro University, Semarang, Indonesia

^bDepartment of Biology, Diponegoro University, Semarang, Indonesia

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Abstract

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Beef is one of the many produce prone to contamination by microorganism. Water and nutrition contents make an ideal medium for the growth and proliferation of microorganism. Contaminated beef will degrade and has less storage duration. Beef is valued by two factors; its price and its quality. The quality itself is measured using four characteristics; marbling, color of meat, color of fat, and meat density. Specifically, marbling is the dominant parameter that determines meat's quality. Determination of meat quality is conducted visually by comparing the actual meat and reference pictures of each meat class. This process is very subjective in nature. Therefore, this research aims to develop an automated system to determine meat by adopting the Indonesian National Standard requirement on the quality of carcass and beef (SNI 3932:2008) using the image processing technique. Image segmentation is carried out using the thresholding method and classification is conducted using the k-nearest neighbor algorithm. The features used to differentiate beef quality are marbling score, color of meat, and color of fat. Results indicate that the system developed is able to acquire images and identify beef quality as required in the Indonesian National Standard. © 2015 IEEE.

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Author keywords

beef quality color analysis image processing k-nearest neighbor marbling score

Indexed keywords

Engineering controlled terms:

Automation Beef Biomedical engineering Color Image processing
Image segmentation Microorganisms Motion compensation Nearest neighbor search
Pattern recognition Quality control

Engineering uncontrolled terms

Color analysis Image processing technique K nearest neighbor algorithm
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