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

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  
 Identitas Jurnal Ilmiah : a. Nama Jurnal : Journal of Food Quality  
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Semarang, 6 Mei 2020

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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 2**

Prof. Dr. Heri Sutanto, SSi, MSi

NIP. 197502151998021001

Unit Kerja : Departemen Fisika - FSM UNDIP

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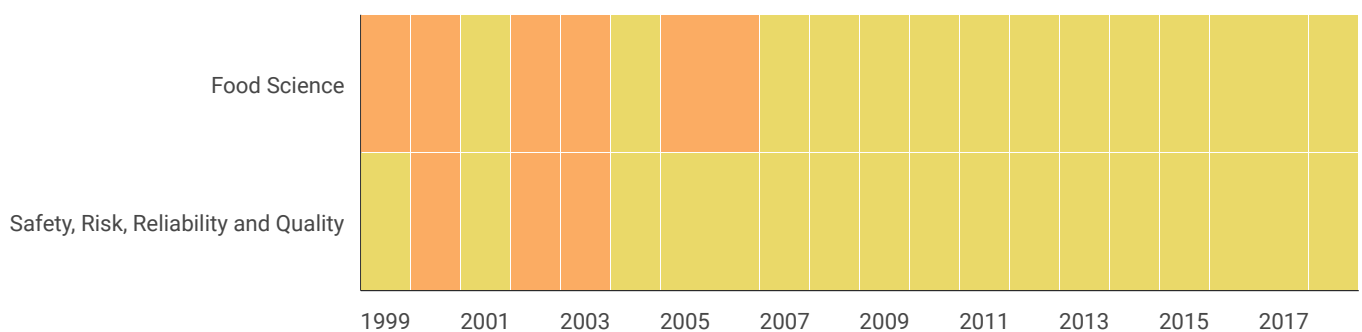


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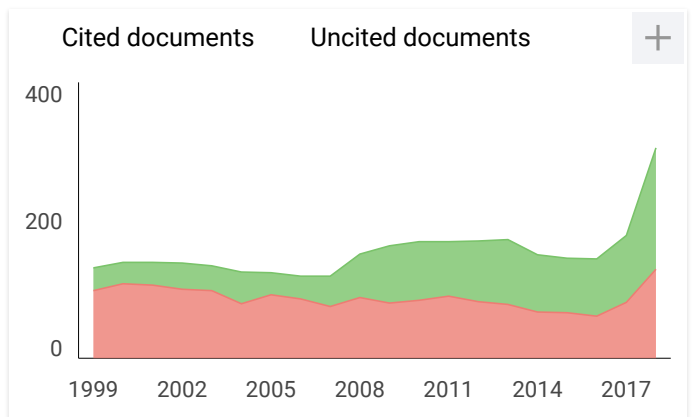
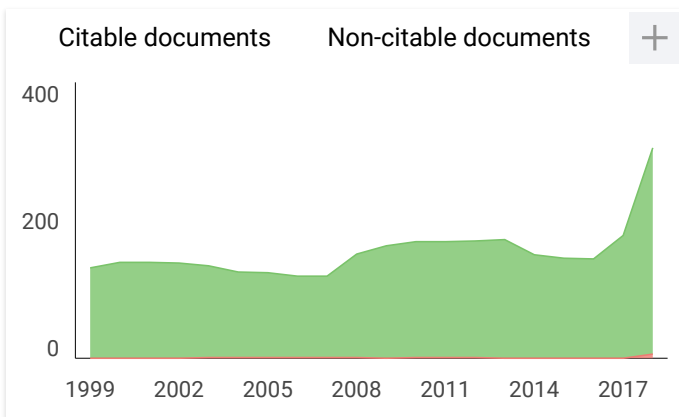
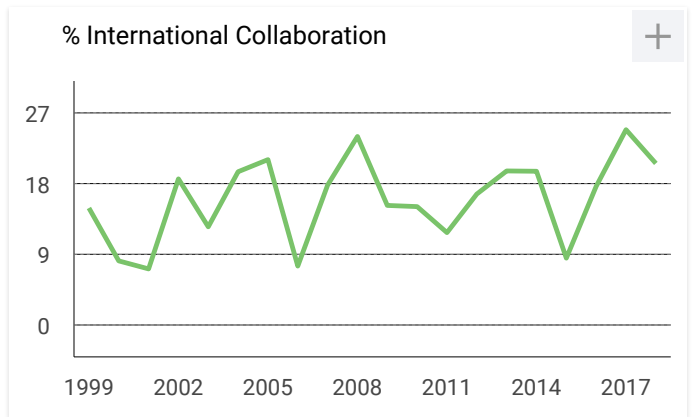
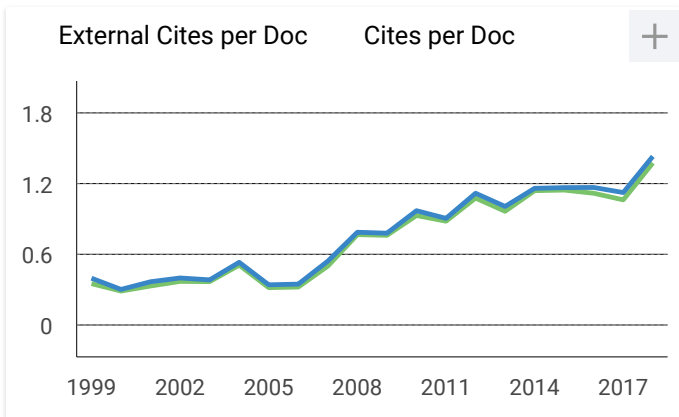
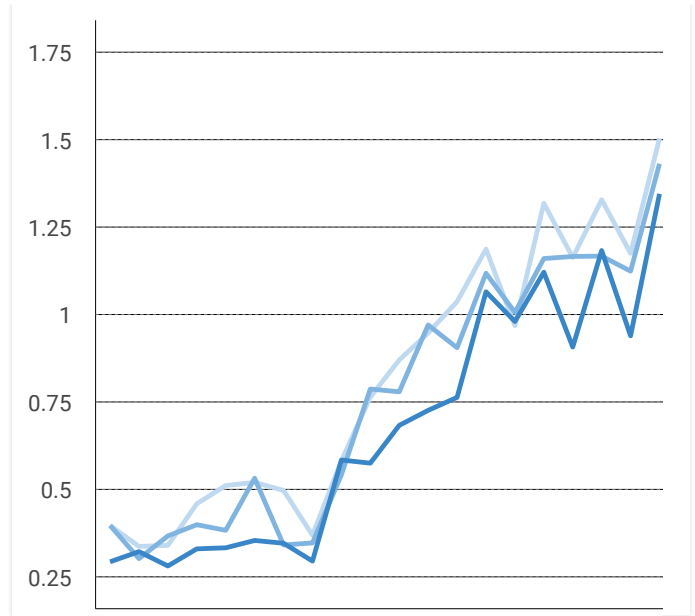
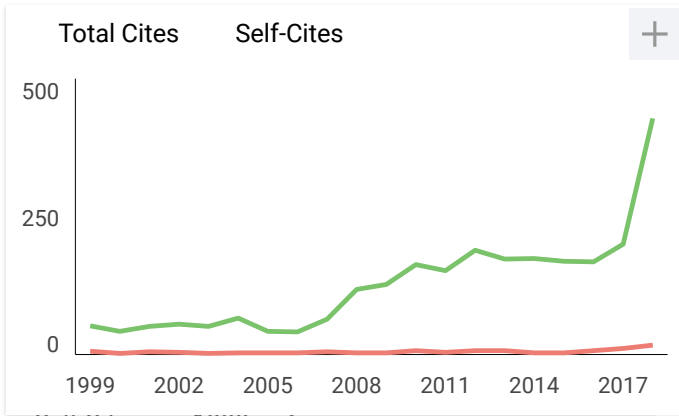
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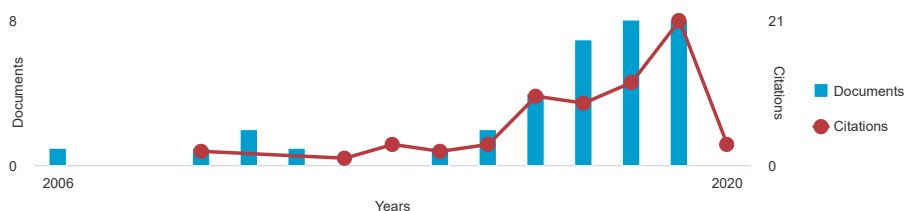
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4th International Conference on Instrumentation, Communications, Information Technology and Biomedical Engineering, ICICI-BME 2015; Institut Teknologi BandungBandung; Indonesia; 2 November 2015 through 3 November 2015; Category numberCFP1587H-ART; Code 119394

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

Adi, K.<sup>a</sup> ✉, Pujiyanto, S.<sup>b</sup>, Nurhayati, O.D.<sup>c</sup>, Pamungkas, A.<sup>a</sup>

<sup>a</sup>Department of Physics, Diponegoro University, Semarang, Indonesia

<sup>b</sup>Department of Biology, Diponegoro University, Semarang, Indonesia

<sup>c</sup>Department of Computer System, Diponegoro University, Semarang, Indonesia

### 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.

### SciVal Topic Prominence ⓘ

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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  
K-nearest neighbor classification K-nearest neighbors marbling score Quality identifications  
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