

Herramientas de administración de la información y Secciones de un artículo: Materiales, métodos y marco teórico.

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Details Notes Contents

Type: Journal Article

Automatic generation of 3D outdoor and indoor building scenes from a single image

Authors: G. Vouzounarais, P. Daras, M. Strytzis

View research catalog entry for this paper

Journal: *Multimedia Tools and Applications*

Year: 2014

Volume: 70

Issue: 1

Pages: 361-378

Abstract:

In this paper, a novel approach for creating 3D models of building scenes is presented. The proposed method is fully automated and fast, and accurately reconstructs both outdoor images of a building and indoor scenes, with perspective cues in real-time, using only one image. It combines the extracted line segments to identify the vanishing points of the image, the orientation, the different planes that are depicted in the image and concludes whether the image depicts indoor or outdoor scenes. In addition, the proposed method efficiently eliminates the perspective distortion and produces an accurate 3D model of the scene without any intervention from the user. The main innovation of the method is that it uses only one image for the 3D reconstruction, while other state-of-the-art methods rely on the processing of multiple images. A website and a database of 100 images were c...

Tags:

Author Keywords:

Projective correction; Single-view 3D reconstruction; Uncalibrated camera; Vanishing point detection

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ArXiv ID:

DOI: 10.1007/s11042-011-0823-0

ISBN: 13807501

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Srintzis, Michael S.	Uma ética para quantos?			17/03/16
Vinet, Luc; Zhedanov, A.				17/03/16
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Carretas, Filipe; Janeiro, Fernando M	Cloud Height Estimation with a Single Digital Camera and Artificial Neural Networks	2014		12:14

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Details Notes Contents

Type: Journal Article

A "missing" family of classical orthogonal polynomials

Authors: L. Vinet, A. Zhedanov

View research catalog entry for this paper

Journal: *Uma ética para quantos?*

Year: 2010

Volume: XXXIII

Issue: 2

Pages: 81-87

Abstract:

We study a family of "classical" orthogonal polynomials which satisfy (apart from a 3-term recurrence relation) an eigenvalue problem with a differential operator of Dunkl-type. These polynomials can be obtained from the little sq -Jacobi polynomials in the limit $sq \rightarrow -15$. We also show that these polynomials provide a nontrivial realization of the Askey-Wilson algebra for $sq \rightarrow -15$.

Tags:

Author Keywords:

12; 2007; 3; Adolescence; Adolescencia; Adolescent; Adolescent Behavior; Adolescent Behavior: psychology; Adult; Agresiones al cuerpo; Attachment to the body; Attaque au corps; Autolesiones deliberadas; Automutilation délibérée; Body Piercing; Body Piercing: ...

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☆	●	📄	Vouzounaras, Georgios; Daras, Petros; Srintzis, Michael G.	Automatic generation of 3D outdoor and indoor building scenes from a single image	2014	Multimedia Tools and Applications	2:48
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☆	●	📄	Shapiro, L.; Stockman, G.	Computer Vision	2001		2:48
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★	●	📄	Mansbridge, J	Skin substitutes to enhance wound healing.	1998	Expert opinion on investigational drugs	2:48
☆	●	📄	Hassner, T.; Basri, R.	Example Based 3D Reconstruction from Single 2D Images	2006	2006 Conference on Computer Vision and Pat...	2:48
☆	●	📄	Hartley, Richard; Zisserman, Andrew	Multiple View Geometry	2010	Uma ética para quantos?	17/03/16
☆	●	📄	Della Rocca, Francesca	How tall is an elephant? Two methods for estimating elephant height	2007	Web Ecology	2:48
☆	●	📄	Carretas, Filipe; Janeiro, Fernando M	Cloud Height Estimation with a Single Digital Camera and Artificial Neural Networks	2014		2:48

3.1.4 Histogram equalization

While the brightness and gain controls described in Section 3.1.1 can improve the appearance of an image, how can we automatically determine their best values? One approach might be to look at the darkest and brightest pixel values in an image and map them to pure black and pure white. Another approach is to compute the average value in the image, push it towards middle gray, and expand the range of values so that it closely fills the displayable values (Kopf, Uyttendaele, Deussen *et al.* 2007).

How can we visualize the set of lightness values in an image in order to test some of these heuristics? The answer is to plot the *histogram* of the individual color channels and luminance values, as shown in Figure 3.7b.² From this distribution, we can compute relevant statistics such as the minimum, maximum, and average intensity values. Notice that the image in Figure 3.7a has both an excess of dark values and light values, but that the mid-range values are largely under-populated. Would it not be better if we could simultaneously brighten some

² The histogram is simply the *count* of the number of pixels at each gray level value. For an eight-bit image, an accumulation table with 256 entries is needed. For higher bit depths, a table with the appropriate number of entries (probably fewer than the full number of gray levels) should be used.

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1. Introduction

2. Method

3. Results

4. Discussion and conclusions

Acknowledgements

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Table 1

Table 2



International Journal of Applied Earth Observation and
Geoinformation

Volume 63, December 2017, Pages 167-177

Enhanced change detection index for disaster response, recovery assessment and monitoring of buildings and critical facilities—A case study for Muzzaffarabad, Pakistan

Dilkushi A. de Alwis Pitts, Emily So

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The availability of very high Resolution (VHR) optical sensors and a growing image archive has enabled the use of remote sensing for change detection in post-disaster recovery and monitoring for robust response and recovery. This paper presents a proposed semi-automated GIS object-based method uses readily available pre-disaster GIS data and adds existing knowledge into the processing to enhance change detection. It also allows targeting specific types of changes pertaining to similar man-made objects such as buildings and critical facilities. The change detection method is based on pre/post normalized index, gradient of intensity, texture and edge similarity filters within the object and a set of training data. More emphasis is put on the building edges to capture the structural damage in quantifying change after disaster. Once the change is quantified, based on training data, the method can be used automatically to detect change in order to observe recovery over time in potentially large areas. Analysis over time can also contribute to obtaining a full picture of the recovery and development after disaster, thereby giving managers a better understanding of productive management and recovery practices. The recovery and monitoring can be analyzed using the index in zones extending from to epicentre of disaster or administrative boundaries over time.

Keywords

Change detection; Remote sensing; Disaster response and recovery; Buildings; Critical

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Applied Geography, Volume 86, 2017,

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☐ Structural Damage Assessments from Ikonos Data Using Change Detection, Object-Oriented Segmentation, and Classification Techniques
 Al-Khudhairi D, Caravaggi I, Giada S
 Photogrammetric Engineering & Remote Sensing, 2005
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☐ Earthquake losses due to ground failure
 Bird J, Bommer J
 Engineering Geology, 2004
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☐ Object based image analysis for remote sensing
 Blaschke T
 ISPRS Journal of Photogrammetry and Remote Sensing, 2010
[Details >](#)

☐ A survey on object detection in optical remote sensing images
 Cheng G, Han J
 ISPRS Journal of Photogrammetry and Remote Sensing, 2016
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Details

Journal Article

Skin substitutes to enhance wound healing.

Mansbridge J

Expert opinion on investigational drugs

1998 vol: 7 (5) pp: 803-9

Biologically-based skin substitutes have developed as commercial products over the last 5 years. The first generation includes the collagen-based synthetic device, Integra, and Allograft, which is based on devitalised and cross-linked human dermis. These are used as dermal replacements for third degree burns.

more

DOI 10.1517/13543784.7.5.803

ISSN 1744-7658

PMID 15991970

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Materialles y métodos

¿Cuál es el sentido de un artículo científico?



**Informar sobre los resultados de
una investigación científica**

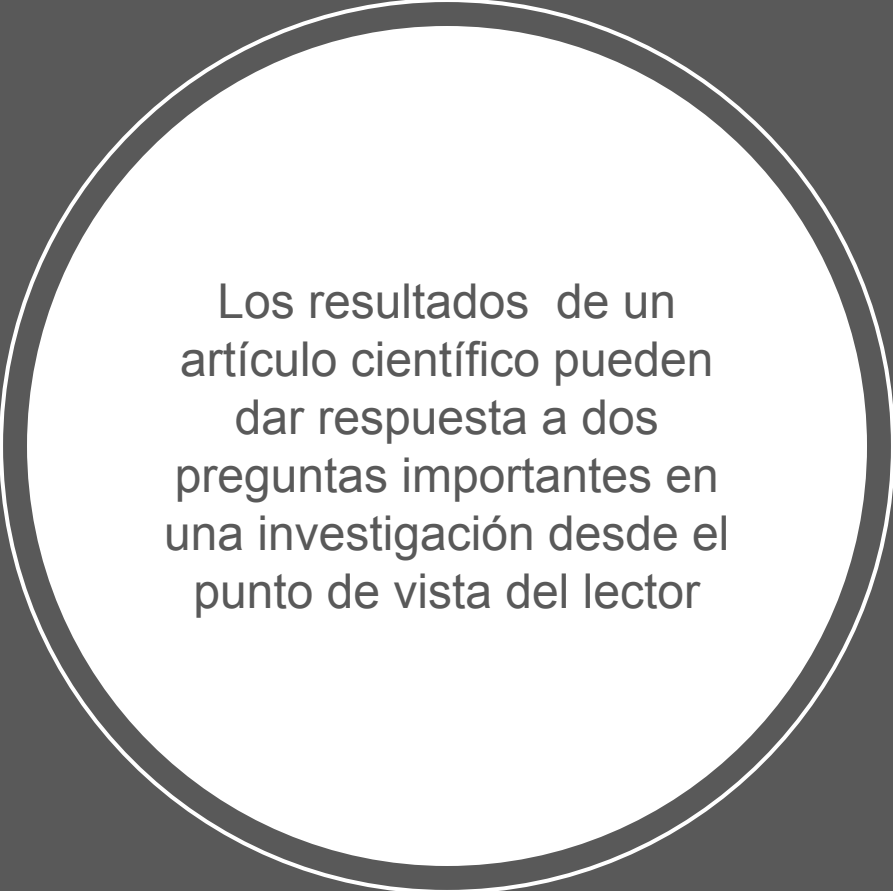
**¿Es suficiente con informar
estrictamente sobre los resultados?**



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solo se presentan los resultados
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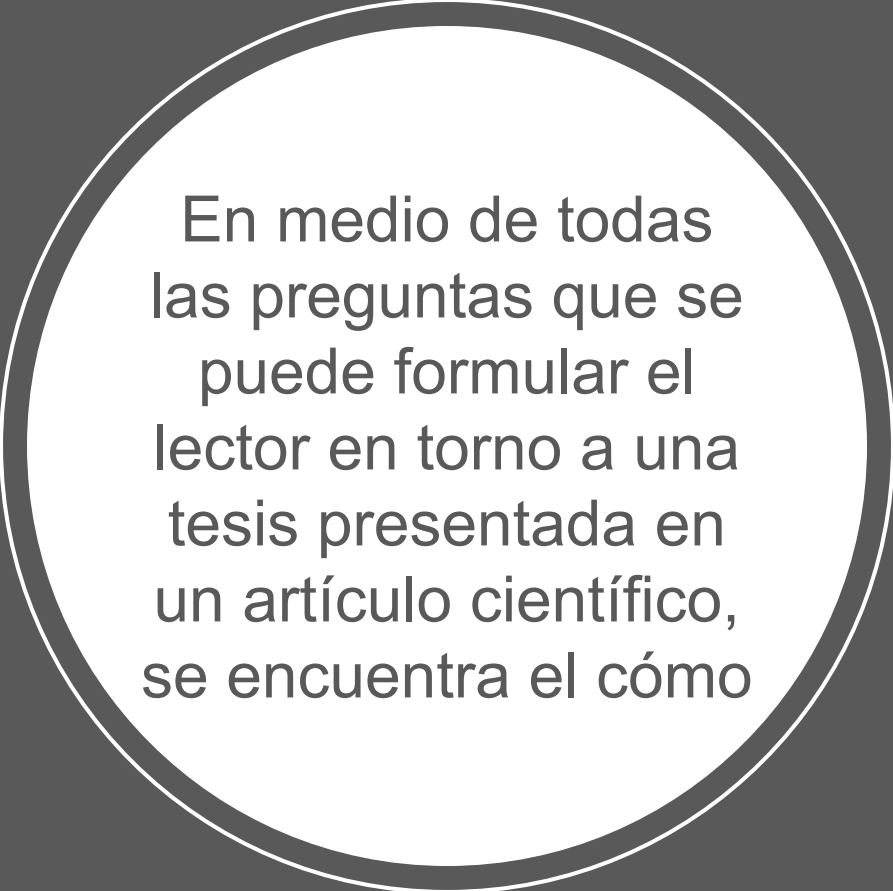





Los resultados de un
artículo científico pueden
dar respuesta a dos
preguntas importantes en
una investigación desde el
punto de vista del lector



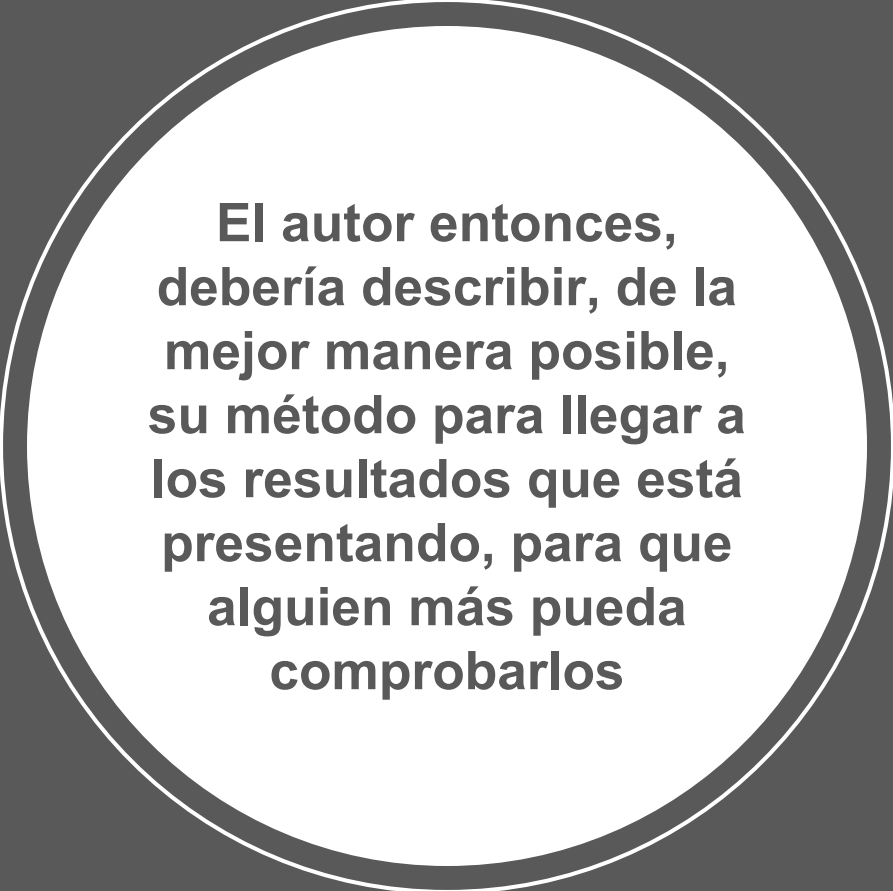
**¿qué?
y ¿por qué?**



En medio de todas
las preguntas que se
puede formular el
lector en torno a una
tesis presentada en
un artículo científico,
se encuentra el cómo



**La aparición de la
respuesta al cómo
en un artículo,
puede estar
fundamentada en la
necesidad de
reproductibilidad de
los resultados**



**El autor entonces,
debería describir, de la
mejor manera posible,
su método para llegar a
los resultados que está
presentando, para que
alguien más pueda
comprobarlos**

Materialles y métodos (en resumen)

- Explicar claramente cómo realizó su investigación con el fin de: (1) permitir a los lectores evaluar el trabajo realizado y (2) permitir a otros a replicar su investigación.

Consejos de redacción

- Documentar los experimentos en detalle puede nutrir esta sección.
- Empezar con información general, contextualizando y descubriendo poco a poco las ramificaciones que forman la metodología, que avanza a los detalles experimentales específicos.
- Hacer que el orden en el que se describen los métodos y el orden de los resultados que se generaron utilizando estos métodos coincidan.
- Siempre incluya citas para los procedimientos que se han descrito anteriormente, evite replicar contenido de otros artículos e incluya la información que crea estrictamente necesaria

Preguntas que debería responder

- ¿Hay suficiente detalle para que los experimentos puedan ser reproducidos?
- ¿Hay exceso de información que podría eliminarse sin afectar la interpretación de los resultados?
- ¿Se mencionan todas las restricciones apropiadas?
- ¿Se incluyen todas las citas apropiadas?

Estructura de un artículo

Proceso experimental	Sección del artículo
¿Qué hice en pocas palabras?	Resumen
¿Cuál es el problema?	Introducción
¿Cómo solucioné el problema?	Materiales y métodos
¿Qué descubrí?	Resultados
¿Qué significa eso?	Discusión
¿Quién me ayudó?	Agradecimientos (Opcional)
¿A cuál trabajo me referí?	Referencias
Información extra	Apéndices (Opcional)

