



## Honestidad académica y sistemas antiplagio en la UPV

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### CrossCheck en PoliPapers: detección del plagio en artículos científicos



# Escenario

- La comunicación científica se rige por principios éticos y morales.
- Recientemente el fraude científico se está demostrando en un porcentaje preocupante.
- Noticias de gran impacto que se recogen en los medios de comunicación
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# ¿Por qué plagiar?

- El aumento del plagio en los últimos años se atribuye a:

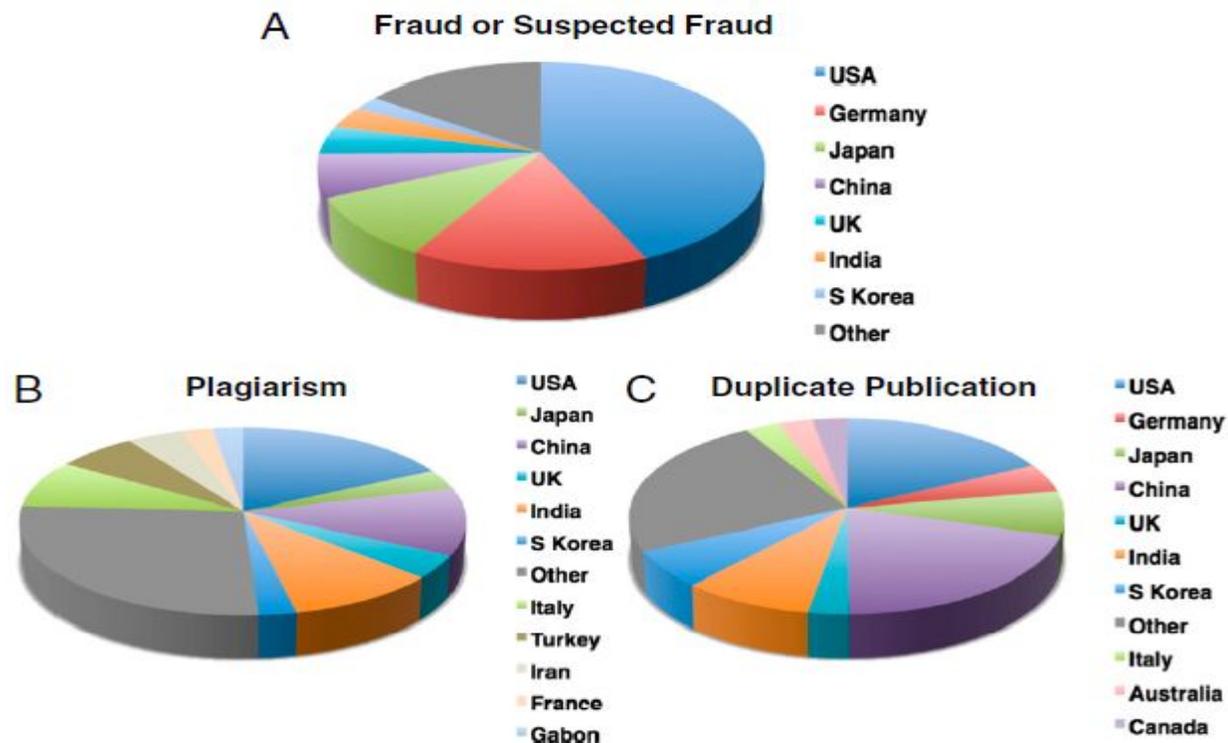


# Expansión del plagio

- Esta expansión del fenómeno del plagio ha sido constatada por diversos estudios estadísticos que demuestran que es un problema a nivel mundial
  - el plagio está entre los tres problemas éticos que se perciben como más frecuentes o habituales en la comunidad científica

# Aumento del fraude científico

- [Informe](#) del PNAS (Proceedings of the National Academy of Sciences ) desvela que el fraude científico se multiplica por 10 desde 1975



# La UPV ante el plagio científico

- Nuestro compromiso con la comunidad científica y con la Sociedad nos lleva a :
  - Declaración de ética y buenas prácticas
    - [COPE](#)
    - En [Polipapers](#)
  - Diseñar estrategias para detectar y prevenir el plagio



# Conclusión

- Las formas de plagio son variadas y detectarlas supone que el editor/revisor realice una importante labor.
  - Reconocer la figura del revisor
- Delatar el plagio dentro de la comunidad científica
  - La vía legal es muy costosa

# CrossCkeck en PoliPapers

## poli [Papers]

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World Rabbit Science



Applied General Topology



Revista de Lingüística y Lenguas Aplicadas



EGA. Revista de expresión gráfica arquitectónica



WPOM - Working Papers on Operations Management



VLC arquitectura. Research Journal



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Con A de animación



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Multidisciplinary Journal for Education, Social and Technological Sciences



EME Experimental Illustration. Art & Design



Loggia. Arquitectura & Restauración



- 2010 - **PoliPapers**
- 2011 - **Política institucional de acceso abierto de la Universitat Politècnica de València.** La UPV promoverá la edición de revistas científicas de acceso abierto desde la plataforma institucional PoliPapers
- 2013 - **Declaración ética y de buenas prácticas** de PoliPapers en su deber de velar por la transmisión del conocimiento científico, garantizando el rigor y la calidad del mismo, bajo un compromiso ético con la comunidad científica y académica



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**Deteriorating inventory model with quadratically time varying demand and partial backlogging** SHARE

Vinod Kumar Mishra  
DOI: <http://dx.doi.org/10.4995/wpom.v8i2.1170> 

**Abstract**  
In this paper, a deterministic inventory model is developed for deteriorating items in which shortages are allowed and partially backlogged. Deterioration rate is constant, demand rate is quadratic function of time and holding cost is linear function of time, backlogging rate is variable and is dependent on the length of the next replenishment. The model is solved analytically by minimizing the total inventory cost. This inventory model is also used as an inventory model for linear as well as constant demand rate by very small change in the parameter of the quadratic function. Numerical examples are provided to illustrate the solution and application of the model.

**Keywords**  
Inventory, deteriorating items, shortages, controllable deterioration rate, partial backlogging, preservation technology, time dependent holding cost.

**References**  
Abad, P.L. (2001). Optimal price and order-size for a reseller under partial backlogging. Computers and

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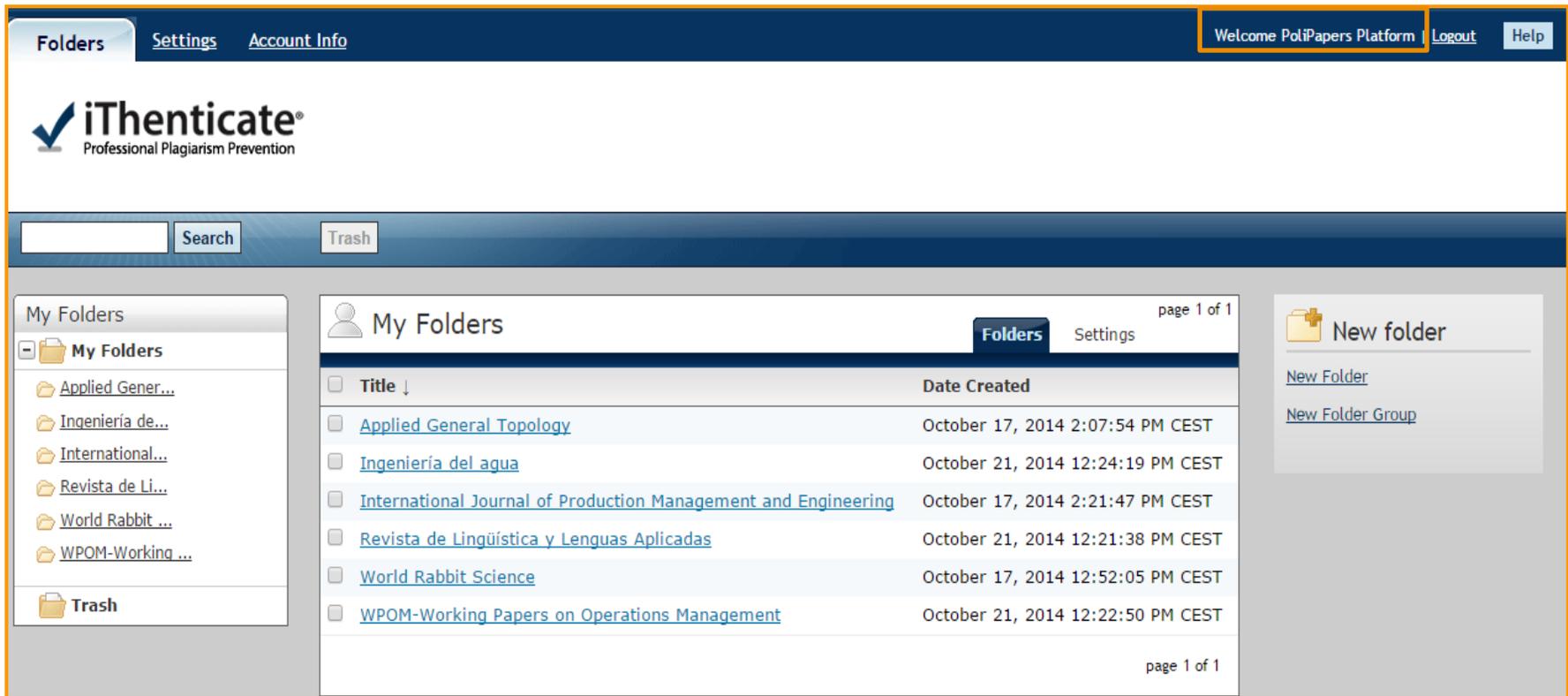
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<a href="#">International Journal of Production Management and Engineering</a>	October 17, 2014 2:21:47 PM CEST
<a href="#">Revista de Lingüística y Lenguas Aplicadas</a>	October 21, 2014 12:21:38 PM CEST
<a href="#">World Rabbit Science</a>	October 17, 2014 12:52:05 PM CEST
<a href="#">WPOM-Working Papers on Operations Management</a>	October 21, 2014 12:22:50 PM CEST

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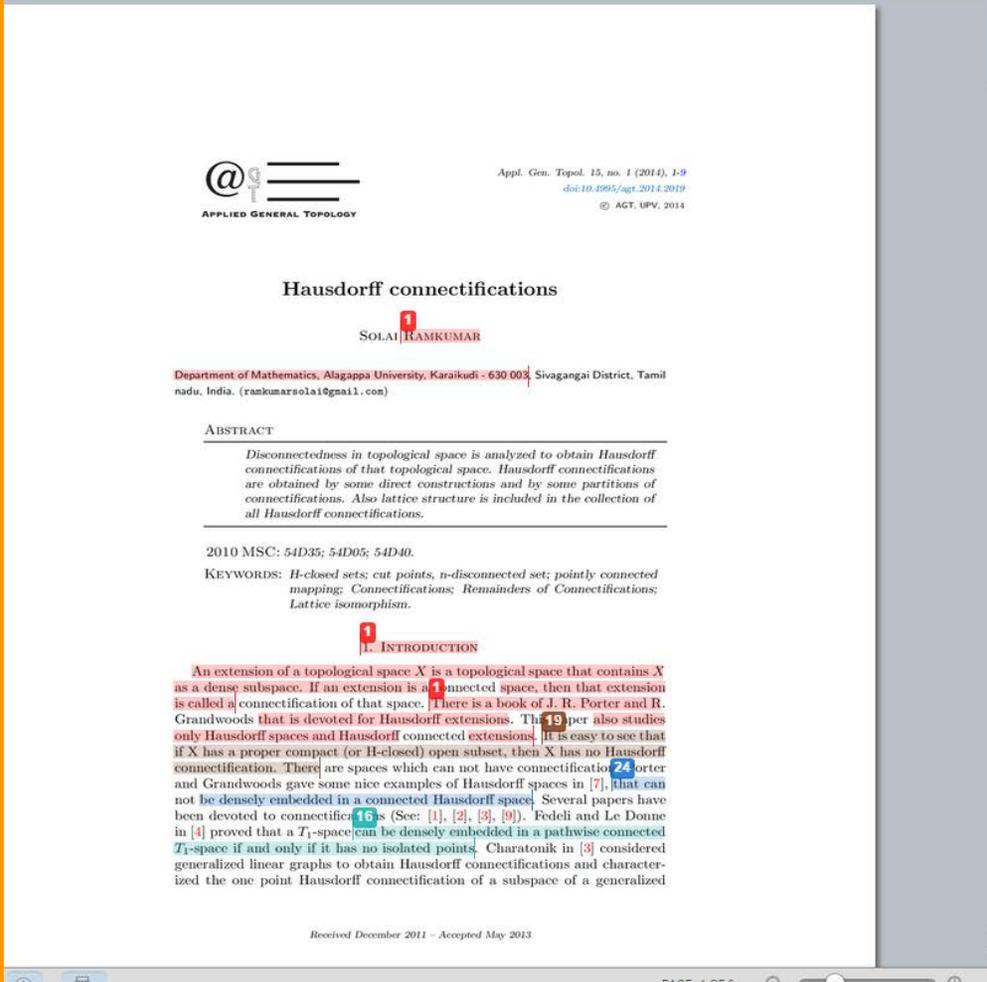


## Hausdorff connectifications

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**Hausdorff connectifications**

SOLAI RAMKUMAR

Department of Mathematics, Alagappa University, Karaikudi - 630 003, Sivagangai District, Tamil Nadu, India. (ramkumarsolai@gmail.com)

**ABSTRACT**

Disconnectedness in topological space is analyzed to obtain Hausdorff connectifications of that topological space. Hausdorff connectifications are obtained by some direct constructions and by some partitions of connectifications. Also lattice structure is included in the collection of all Hausdorff connectifications.

2010 MSC: 54D35; 54D05; 54D40.

KEYWORDS: *H*-closed sets; cut points, *n*-disconnected set; pointly connected mapping; Connectifications; Reminders of Connectifications; Lattice isomorphism.

**1. INTRODUCTION**

An extension of a topological space  $X$  is a topological space that contains  $X$  as a dense subspace. If an extension is a connected space, then that extension is called a connectification of that space. There is a book of J. R. Porter and R. Grandwoods that is devoted for Hausdorff extensions. The paper also studies only Hausdorff spaces and Hausdorff connected extensions. It is easy to see that if  $X$  has a proper compact (or *H*-closed) open subset, then  $X$  has no Hausdorff connectification. There are spaces which can not have connectification. Porter and Grandwoods gave some nice examples of Hausdorff spaces in [7], that can not be densely embedded in a connected Hausdorff space. Several papers have been devoted to connectifications (See: [1], [2], [3], [9]). Fedeli and Le Donne in [4] proved that a  $T_1$ -space can be densely embedded in a pathwise connected  $T_1$ -space if and only if it has no isolated points. Charatonik in [3] considered generalized linear graphs to obtain Hausdorff connectifications and characterized the one point Hausdorff connectification of a subspace of a generalized

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## ABSTRACT

*Disconnectedness in topological space is analyzed to obtain Hausdorff connectifications of that topological space. Hausdorff connectifications*

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$i \in \mathbb{N}$  and therefore  $\mathcal{U}_i \cap \mathcal{U}_j = \emptyset$ . Thus  $\mathcal{U}_i \cap \mathcal{U}_j = \emptyset$  and  $\mathcal{U}_i \cap \mathcal{U}_j = \emptyset$  which is contradiction with the fact that  $m$  has no finite subcover. Hence  $X$  is compact and our proof is complete. S.119. Prove that a continuous image of a compact space is a compact space. Solution. Assume that  $X$  is a compact space and  $f: X \rightarrow Y$  is a continuous onto map. If  $\mathcal{g}$  is an open cover of  $Y$  then  $\mathcal{U} = \{f^{-1}(U) : U \in \mathcal{g}\}$  is an open cover of  $X$ . By compactness of  $X$  there are  $U_1, \dots, U_n \in \mathcal{U}$  with  $X = \bigcup_{i=1}^n U_i$  [

## 1. INTRODUCTION

An extension of a topological space  $X$  is a topological space that contains  $X$  as a dense subspace. If an extension is a connected space, then that extension is called a connectification of that space. There is a book of J. R. Porter and R. Grandwoods that is devoted for Hausdorff extensions. This paper also studies only Hausdorff spaces and Hausdorff connected extensions. It is easy to see that if  $X$  has a proper compact (or  $H$ -closed) open subset, then  $X$  has no Hausdorff connectification. There are spaces which can not have connectification. Porter and Grandwoods gave some nice examples of Hausdorff spaces in [7], that can not be densely embedded in a connected Hausdorff space. Several papers have been devoted to connectifications (See: [1], [2], [3], [9]). Fedeli and Le Donne in [4] proved that a  $T_1$ -space can be densely embedded in a pathwise connected  $T_1$ -space if and only if it has no isolated points. Charatonik in [3] considered generalized linear graphs to obtain Hausdorff connectifications and characterized the one point Hausdorff connectification of a subspace of a generalized

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S. Ramkumar

linear graph in [2]. Section 2 contains some basic ideas about disconnectedness of topological spaces. Section 3 presents some direct constructions to obtain Hausdorff connectifications of a topological space. We also obtain Hausdorff connectifications through remainders in section 4. Final section proves that if  $f$  is a continuous and connected mapping from  $X$  onto  $Y$  such that  $f$  separates every pair of disjoint regular open subsets of  $X$ , then the lattice  $\mathcal{C}(X)$  is isomorphic to  $\mathcal{C}(Y)$ . All spaces under consideration are Hausdorff topological spaces.

## 2. SOME DISCONNECTED SPACES

**Definition 2.1.** A subset  $A$  of a space  $X$  is  $n$ -disconnected if  $A$  has exactly  $n + 1$  no. of clopen subsets in  $A$  except  $\emptyset$  and  $A$ .

**Definition 2.2.** A subset  $A$  of a space  $X$  is countably infinite disconnected if  $A$  has only countably infinite number of clopen subsets in  $A$ .  $A$  is countably  $n$ -disconnected if it is either  $n$ -disconnected or countably infinite disconnected.

**Definition 2.3.** A subset  $A$  of a space  $X$  is uncountably disconnected if  $A$  is not countably disconnected.

**Example 2.4.** (i)  $(0, 1) \cup (1, 2)$  is 1-disconnected.

(ii)  $\bigcup_{k=1}^n (k, k + 1)$  is  $(2^n - 2)$ -disconnected.

(iii) Set of all rationals is uncountably disconnected subset of  $\mathbb{R}$ .

**Theorem 2.5.** Let  $f : X (\subseteq Z_1) \rightarrow Z$  be a continuous mapping such that  $f(X) = Y \subseteq Z$ . If  $Y$  is  $n$ -disconnected subset of  $Z$ , then  $X$  is at least a  $n$ -disconnected subset of  $Z_1$ . Also, if  $A$  is a component in  $Y$ , then  $f^{-1}(A)$  is a component in  $X$ .

*Proof.* Let  $Y$  be a  $n$ -disconnected subset of a space  $Z$ . Then  $Y$  has  $n + 1$  no of clopen subsets. Let them be  $\{A_1, A_2, \dots, A_{n+1}\}$ . Since  $f$  is continuous,  $X$  has at least  $n + 1$  no of clopen subsets namely,  $\{B_1, B_2, \dots, B_{n+1}\}$ . So, if  $A$  is a component in  $Y$ , then  $f^{-1}(A)$  is a component in  $X$ . If not, then there is a connected subset  $C$  of  $X$  containing  $f^{-1}(A)$ . Then  $f(C)$  is a connected subset of  $Y$  containing  $A$ , which is a contradiction to the maximality of  $A$ .  $\square$

**Theorem 2.6.** Let  $f : X \rightarrow Z$  be an one to one and open mapping. If  $Y = f(X)$  and if  $X$  is a  $n$ -disconnected subset of  $Z_1$ , then  $Y$  is at least a  $n$ -disconnected subset of  $Z$ . Also, image of a component under the mapping  $f$  is a component in  $Y$ .

*Proof.* If  $f$  is an one to one and open mapping, then  $f^{-1} : Y \rightarrow X$  is a continuous mapping. By the previous theorem 2.5,  $X$  is a  $n$ -disconnected subset of  $Z_1$ .  $\square$

A subspace of a  $n$ -disconnected space need not be a  $n$ -disconnected space. Consider a subspace  $A = [0, 1] \cup [2, 3]$  of  $[0, 1] \cup [2, 3] \cup [4, 5]$ , for some fixed  $n$ . Then  $A$  is 1-disconnected subspace of a 2-disconnected space  $[0, 1] \cup [2, 3] \cup [4, 5]$ .

## Hausdorff connectifications

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