# Trabajo 10 Clustering

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**Objetivo:** 

- Realizar un análisis semiautomático de grandes volúmenes de datos no estructurados (en forma de artículos de revistas publicadas) a través de la aplicación de minería de textos.
- Utilizar bibliotecas digitales estándar y motores de búsqueda de publicaciones en línea tales como Google Scholar, ResearchGate para extraer la información a procesar.

#### Descripcion:

Extraiga esta información al menos 30 publicaciones de los autores listados abajo y de al menos tres revistas diferentes. Para cada artículo, extraiga el título, resumen, lista de autores, palabras clave publicadas, volumen, número de edición y año de publicación. Si es posible incluya además el tipo de artículo para futuros análisis de patrones.

Se recomienda usar información de estos *autores*: Mauricio Espinoza Mejía, Victor Saquicela Galarza, Guadalupe Aguado de Cea, Jim Hendler, Frank van Harmelen, Natasha Noy, Priscila Cedillo Orellana, Miguel Angel Zuniga, Dario Rodriguez, Yaskelly Yedra, Jeanette Riley, Kenneth Palacios Baus, Otto Parra González, Don Batory, Alexander Egyed, Marten van Sinderen, Lizandro Damian Solano-Quinde, Alex Nicolau, Bill Punch, Zhenjiang Hu, Juan Pablo Carvallo, Luis I. Minchala, Liping Guo, Angel de Castro, Javier Garrido, Amit Sheth.

Para esta práctica se usará únicamente el resumen de un artículo como única fuente de información. No se debe incluir las palabras clave del artículo por dos principales razones: en circunstancias normales, el resumen incluye las palabras clave enumeradas, y, por lo tanto, la inclusión de las palabras clave enumeradas para el análisis significaría repetir la misma información y potencialmente otorgarles un peso inmerecido; y las palabras clave enumeradas pueden ser términos con los que los autores desearían que se asociará su artículo (a diferencia de lo que realmente figura en el artículo), lo que podría introducir un sesgo no cuantificable en el análisis del contenido. Cada uno de los artículos deben ser grabados en archivos de Excel.

Ejecutar procesos que permitan:

- 1. Representar la relación entre las palabras/términos y los documentos
- Ejecutar pre-procesamiento que incluya al menos Transform Cases, Tokenization (usando la opción all nonletter characters), Filter Stopwords, y Filter Tokens (by Length) (por ejemplo menos de dos caracteres de longitud). Use algunos procesos adicionales en caso de considerarlo necesario.
- 3. Determinar el número de grupos para clasificar los artículos. En todo momento se debe incluir el autor, año y revista.

#### **Tareas**

- 1. Verifique los documentos que pertenecen a cada clúster y explique el valor sobre el número de cluster
- 2. Usando algún software de visualización o análisis (e.j. tabla dinámica de Excel) ejecute los siguientes reportes Listado de autores que trabajan en temas similares (pertenecen al mismo cluster) Cluster x Año x Autor NombreArticulos x Cluster x Autor Un histograma que muestre en el tiempo los tópicos sobre los que ha investigado un autor
- 3. Explique el significado de los reportes

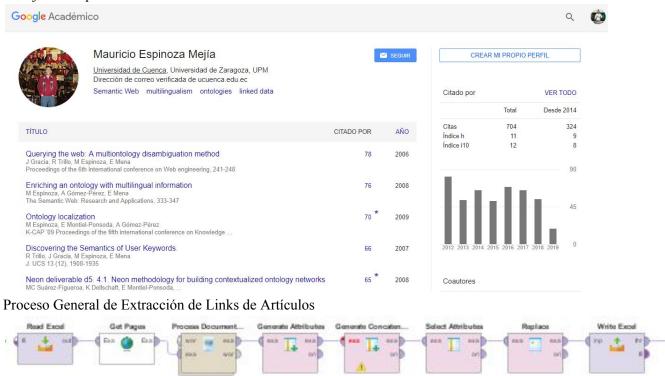
**DESARROLLO** 

1.- Extracción de perfiles de investigadores: Como motor de busqueda se escogio Google Scholar, a pesar de existir múltiples alternativas tales como : Researchgate, DSPACE, entre otros. Se escogio Google Scholar debido a la información disponible en la plataforma, ya que la parte de análisis de texto se procederá con el ítems de Abstract, es importante que tal tenga información verificada y completa. Al ser 26 autores con 30 investigaciones de cada uno se debe buscar una plataforma que otorga homogeneidad en la extracción de texto. De los 26 autores se omiten 2 autores: Kenneth Palacios Baus y Javier Garrido debido a la falta de claridad en los perfiles encontrados.

Para proceder a extraer la información de cada autor se inicializa un proceso **Read Excel.** El archivo tendrá la cabecera "Autores":

Autores
https://scholar.google.com.ec/citations?hl=es&user=PFHdwNMAAAAJ
https://scholar.google.com.ec/citations?user=nYte-bkAAAAJ&hl=es&oi=sra
https://scholar.google.com.ec/citations?hl=es&user=eEeqVvwAAAAJ
https://scholar.google.com.ec/citations?hl=es&user=JNPbTdIAAAAJ
https://scholar.google.com.ec/citations?hl=es&user=LCyfDi8AAAAJ
https://scholar.google.com.ec/citations?hl=es&user=FE08ALAAAAAJ
https://scholar.google.com.ec/citations?user=sW72O6oAAAAJ&hl=es&oi=sra
https://scholar.google.com.ec/citations?hl=es&user=Lvz9YRYAAAAJ

Este archivo tendrá links que dirige a los perfiles de los autores en Google Académico, los links serán semejantes al planteado a continuación:



#### PROCESOS UTILIZADOS

Read Excel: Lectura de Archivo con links de los perfiles

**Get Pages:** Proceso que procede a tomar link por link para analizar su pagina individualmente. Este proceso necesita seleccionar un atributo o columna el cual analizar. En este caso se escoge la Columna Autores.



**Process Documents from Data**: Realiza procesamiento de texto, de cada url que toma del archivo base, se realiza un TF-IDF o frecuencia de ocurrencia del término en la colección de documentos.



Dentro del proceso Process Documents from Data, se coloca un proceso **Cut Document**, dicho proceso procederá a seleccionar una parte del Texto para analizarlo, esto se repetirá en todo el documento, extrayendo todas las secciones que indicamos.



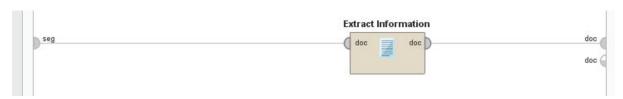
Como parámetros se selecciona un tipo de oración: String Matching y un tipo de atributo Nominal.



Se editan las listas de string matching, el cual atribuye la tabla o sección de cada artículo del investigador que se esté procesando. Se necesita realizar un corte de texto desde el la segunda celda, hasta el indicado en la tercera celda.

attribute name	query expression	
TABLA		
INFOAUTOR	<div id="gsc_prf_i"></div>	/div>

El proceso **Cut Document,** tiene dentro de si el proceso **Extract Information**, que procede a tomar del texto "cortado", ciertos atributos.



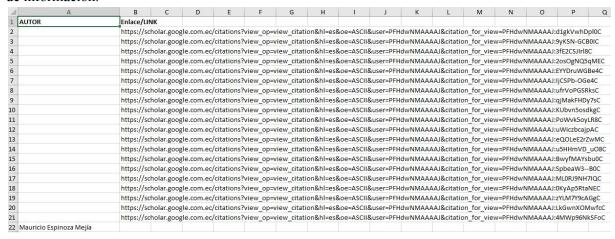
Los parámetros de **Extract Information** tiene listas de string matching, el cual procede a cortar los links de los artículos de investigación a la vez del investigador.



Dado configuraciones de rapidminer, el resultado de este proceso nos presenta un resultado con las primeras celdas del archivo de salida, vacías, a excepción del último artículo. Esto nos indica que desde la primera fila con el atributo AUTOR vacío hasta la fila con el atributo con el nombre de autor correcto. Los atributos se cortan segun las restricciones de la misma manera que el proceso Cut.

attribute name	query expression		
LINK	data-href="/		
AUTOR	<div id="gsc_prf_in"></div>	<	

**Nota:** A Pesar de tener este inconveniente mencionado, se puede rellenar manualmente los artículos, ya que los resultados se presenta incremental y consecutivamente, dicho esto, no habrá mal utilización de información.



#### Rellenar manualmente

AUTOR	Enlace/LINK Enlace
Mauricio Espinoza Mejía	https://scholar.google.com.ec/citations?view_op=view_citation&hl=es&oe=ASCII&user=PFHdwNMAAAAJ&citation_for_view=PFHdwN

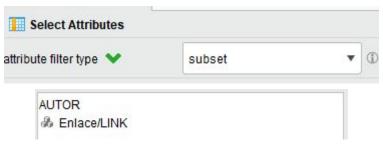
Generate Attributes: Este proceso crea un nuevo atributo para cada fila analizada, en esta caso será la base del nuevo enlace.



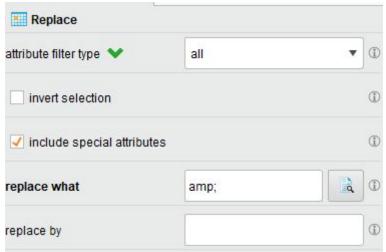
Generate Concatenation: Este proceso realiza la unión del atributo Enlace producido en el paso anterior con el link encontrado en dos pasos antes. Este proceso concatena con una separación, en este caso será el símbolo "/"

first attribute	Enlace	•	(I)
second attribute	LINK	•	1
separator	I		1

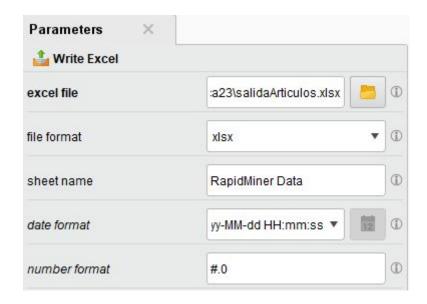
Select Attributes: Este proceso procede a seleccionar únicamente la columna generada en el paso anterior.



Replace: Dado que en los pasos anteriores se extrajo los links que nos ayudarán a encontrar nuestros articulo, este link tiene un extra o "trash", el cual en este caso será los elementos "amp;" el cual se eliminará ya que hace inservible a los links.



Write Excel: Procede a escribir lo generado en los pasos anteriores, para mantener los archivos en lugar de generarlo cada vez utilizando memoria y tiempo.



Paso 2 - Extracción información de cada investigación.

Del proceso anterior, se obtuvo 451 links, es decir se procesaran 451 investigaciones, esta es una gran cantidad de peticiones al servidor de Google. Estas constantes peticiones a Google son malinterpretadas como un ataque DDOS, y más aún en un entorno de laboratorio de universidad donde más personas realizan peticiones a los servidores de Google, dado este inconveniente que retrasó el desarrollo de esta práctica, se procedió a utilizar una VPN, la cual se cambiaría en determinados lapsos de tiempo, para que no se vieron restringidas el análisis a todas las investigaciones. El programa a utilizar para generar una VPN es PSIPHON3, aceptado en una plataforma Windows 10.



Realizada la VPN se procede a subdividir al archivo de links en archivos con 20 registros cada uno, para que cada procesamiento se varíe la IP del computador desde el cual se esta trabajando. Obteniéndose un total de 23 archivos.

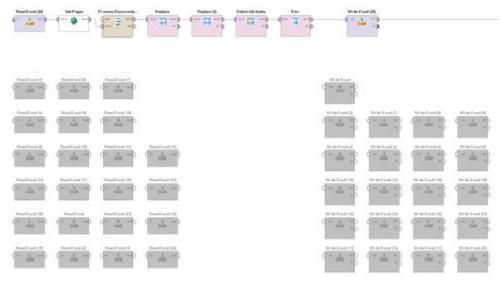
Archivos de Entrada:



### Ejemplo Archivo con 20 registros.

4	A	В	C	D	E	F	G	H	1 1	J	K	L	M	N	0	P	Q	R
1	AUTOR	Enlace	/LINK			-0.1-W/			1.00			The same of the sa						
2	Mauricio Espinoza Mejía	https://s	cholar.go	ogle.com.e	ec/citation	s?view	op=view	citation&hl	es&oe=A	SCII&user	=PFHdwN	MAAAAJ	&citation	for view=	PFHdwNM	AAAAJ:d	1gkVwhDpl	IOC
3	Mauricio Espinoza Mejía	https://s	cholar.go	gle.com.e	ec/citation	ns?view_	op=view_	_citation&hl	es&oe=A	SCII&user	=PFHdwN	<b>IMAAAA</b> J	&citation_	for_view=	PFHdwNM	AAAAJ:9	yKSN-GCE	30IC
4	Mauricio Espinoza Mejía	https://s	cholar.go	gle.com.e	ec/citation	ns?view_	op=view_	_citation&hl	es&oe=A	SCII&user	=PFHdwN	LAAAAMI	&citation_	for_view=	PFHdwNM	AAAAJ:3	fE2CSJlrl80	D
5	Mauricio Espinoza Mejí a	https://s	cholar.go	gle.com.e	ec/citation	ns?view_	op=view_	_citation&hl	es&oe=A	SCII&user	=PFHdwN	LAAAAMI	&citation_	for_view=	PFHdwNM	AAAAJ:2	osOgNQ5d	MEC
6	Mauricio Espinoza Mejía	https://s	cholar.go	gle.com.e	ec/citation	ns?view_	op=view_	_citation&hl	es&oe=A	SCII&user	=PFHdwN	LAAAAMI	&citation_	for_view=	PFHdwNM	AAAAJ:E	YYDruWGE	Be4C
7	Mauricio Espinoza Mejí a	https://se	cholar.go	gle.com.e	ec/citation	ns?view_	op=view_	_citation&hl	es&oe=A	SCII&user	=PFHdwN	IMAAAAJ	&citation_	for_view=	<b>PFHdwNM</b>	AAAAJ:lj0	CSPb-OGe	≥4C
8	Mauricio Espinoza Mejía	https://s	cholar.go	gle.com.e	ec/citation	ns?view_	op=view_	_citation&hl	es&oe=A	SCII&user	=PFHdwN	LAAAAM	&citation_	for_view=	<b>PFHdwNM</b>	AAAAJ:u	frVoPGSRI	ksC
9	Mauricio Espinoza Mejí a	https://se	cholar.go	gle.com.e	ec/citation	s?view_	op=view_	citation&hl	es&oe=A	SCII&user	=PFHdwN	<b>IMAAAAJ</b>	&citation_	for_view=	PFHdwNM	AAAAJ:q	MakFHDy7	7sC
10	Mauricio Espinoza Mejía	https://s	cholar.go	gle.com.e	ec/citation	ns?view_	op=view_	_citation&hl	es&oe=A	SCII&user	=PFHdwN	LAAAAM	&citation_	for_view=	<b>PFHdwNM</b>	AAAAJ:K	Ubvn5osdl	kgC
1	Mauricio Espinoza Mejí a	https://se	cholar.go	gle.com.e	ec/citation	ns?view_	op=view_	_citation&hl	es&oe=A	SCII&user	=PFHdwN	IMAAAAJ	&citation_	for_view=	PFHdwNM	AAAAJ:P	oWvk5oyL	R8C
2	Mauricio Espinoza Mejía	https://s	cholar.go	gle.com.e	ec/citation	s?view_	op=view_	_citation&hl	es&oe=A	SCII&user	=PFHdwN	LAAAAM	&citation_	for_view=	PFHdwNM	AAAAJ:u	Wiczboajp	AC
3	Mauricio Espinoza Mejía	https://se	cholar.go	gle.com.e	ec/citation	s?view_	op=view_	_citation&hl	es&oe=A	SCII&user	=PFHdwN	LAAAAM	&citation_	for_view=	PFHdwNM	AAAAJ:e	QOLeE2rZ	wMC
4	Mauricio Espinoza Mejía	https://se	cholar.go	gle.com.e	ec/citation	s?view_	op=view_	citation&hl	es&oe=A	SCII&user	=PFHdwN	LAAAAM	&citation_	for_view=	PFHdwNM	AAAAJ:u	5HHmVD_	u08C
5	Mauricio Espinoza Mejía	https://s	cholar.go	gle.com.e	ec/citation	ns?view_	op=view_	_citation&hl	es&oe=A	SCII&user	=PFHdwN	LAAAAM	&citation_	for_view=	PFHdwNM	AAAAJ:B	wyfMAYsb	u0C
16	Mauricio Espinoza Mejí a	https://se	cholar.go	gle.com.e	ec/citation	s?view_	op=view_	_citation&hl	es&oe=A	SCII&user	=PFHdwN	LAAAAM	&citation_	for_view=	PFHdwNM	AAAAJ:S	pbeaW3	-B0C
7	Mauricio Espinoza Mejía	https://se	cholar.go	gle.com.e	ec/citation	s?view_	op=view_	_citation&hl	es&oe=A	SCII&user	=PFHdwN	LAAAAM	&citation_	for_view=	PFHdwNM	AAAAJ:M	LORJ9NH7	7IQC
18	Mauricio Espinoza Mejí a	https://se	cholar.go	gle.com.e	ec/citation	s?view_	op=view_	_citation&hl	es&oe=A	SCII&user	=PFHdwN	LAAAAM	&citation_	for_view=	PFHdwNM	AAAAJ:0	KyAp5Rtal	NEC
19	Mauricio Espinoza Mejí a	https://s	cholar.go	gle.com.e	ec/citation	s?view_	op=view_	_citation&hl	es&oe=A	SCII&user	=PFHdwN	LAAAAMI	&citation_	for_view=	PFHdwNM	AAAAJ:z	YLM7Y9cA	4GqC
20	Mauricio Espinoza Mejía	https://s	cholar.go	gle.com.e	ec/citation	ns?view_	op=view_	citation&hl	es&oe=A	SCII&user	=PFHdwN	LAAAAM	&citation_	for_view=	PFHdwNM	AAAAJ:L	kGwnXOM	wfcC
21	Mauricio Espinoza Mejí a	https://s	cholar.go	gle.com.e	ec/citation	s?view_	op=view_	_citation&hl	es&oe=A	SCII&user	=PFHdwN	LAAAAM	&citation_	for_view=	PFHdwNM	AAAAJ:4	MWp96Nks	SF <sub>o</sub> C
22	* **	1 7	1 - 15	100														
23																		
24																		

#### MODELO GENERAL EXTRACCION DE INFORMACION



#### PROCESOS UTILIZADOS

Read Excel (x23): Lee el archivo antes mencionado, sin embargo este archivo únicamente tiene 20 links a investigaciones. Esta acción se debe variar con los 23 archivos, variando la IP entre cada lectura. El atributo que se seleccionara es

Get Pages: Dada la lectura en el paso anterior, se selecciona el atributo Enlace/LINK para leer únicamente el URL que nos conecta a la investigación.



**Process Documents from Data:** Al igual que en la Parte 1 se procede a seleccionar un vector tipo TF-IDF o frecuencia de ocurrencia del término en la colección de documentos.



En el proceso de Process Documents from Data, se tienen los procesos Extract Information y Extract Content.



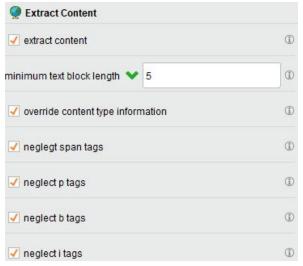
Extract Information se configura con un tipo de oración "String Matching" y tipo de atributo Nominal.

query type 💙	String Matching   ▼	Œ
string machting queries	Edit List (6)	G
attribute type	Nominal	Œ

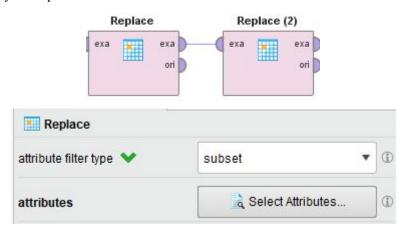
Extract Information se utiliza para obtener los valores de Volumen, Titulo, Ano, Edición, Resumen y Revista.

attribute name	query expression			
AÑO	Fecha de publicación <d< th=""><th></th></d<>			
VOLUMEN	Volumen <div class="gs(&lt;/td&gt;&lt;td&gt;&lt;/div&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;EDICION&lt;/td&gt;&lt;td&gt;Número&lt;/div&gt;&lt;div class=" gsc<="" td=""><td></td></div>			
TITULO	<divid="gsc_vcd_title"></divid="gsc_vcd_title">	</td		
RESUMEN	<div class="gsc_vcd_field">D(</div>			
REVISTA	Revista			

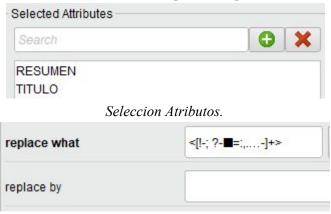
El proceso Extract Content se utiliza para que dados los resultados obtenidos en el proceso de Extract Information se elimine etiquetas HTML.



**Replace (x2):** Se ejecutan dos procesos de este tipo para que en el primer caso se seleccione los atributos Resumen y Atributos, para eliminar cada símbolo, carácter que no contribuyen con el análisis del texto y en la posterior Clusterización.



#### Selección de subsets para reemplazar.

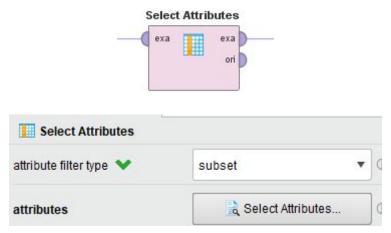


Limpieza de caracteres especiales.



Limpieza de caracteres especiales que no sean números en el atributo Año.

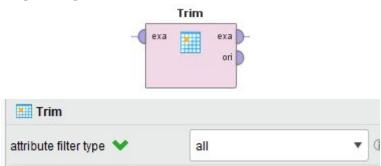
**Select Attributes**: Este proceso me permite obviar cualquier otro resultado que no quiera en mis archivos de análisis.



Atributos seleccionados para posterior procesamiento de texto.

AUTORES
AÑO
CONTENIDO
EDICION
RESUMEN
REVISTA
TITULO
TITULO1
VOLUMEN

**Trim**: Este proceso permite eliminar espacios al inicio, en este caso se configura para que todos los atributos sean tratados por este proceso.



**Write Excel (x23)**: Guarda los resultados de los procesos anteriores de extracción de información de cada investigación. Se realizan 23 procesos de este tipo para todos los archivos leídos.

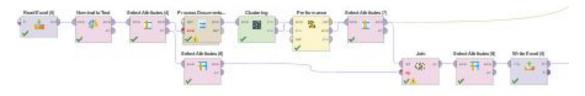


Archivos de salida de procesos de Extracción.

PASO 3:

#### PASU 3:

Modelo General Paso 3



#### **DESARROLLO**

Read Excel: Dados los 23 archivos generados en el paso 2, manualmente se procede a unir en un solo excel, además de eliminar los registros con abstract en idiomas distintos al

Inglés, debido a los ruidos que genera al momento de clusterizar, dando valores erróneos. Este archivo final, será seleccionado para el tratamiento de los abstracts.

#### **Nominal to Text:**



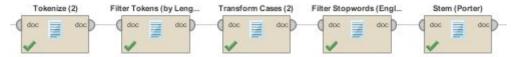
**Select Attributes (x4):** Estos procesos permiten realizar varias selecciones para el procesamiento de la información, por ejemplo el primer proceso de este tipo se ocupa para que únicamente se seleccione el Resumen o Abstract. Al igual los 3 más.



**Process Documents from Data:** Leído y seleccionado los atributos a analizar se necesita procesar estos datos, por lo cual se crea este proceso y dentro de este, varios subprocesos que permiten clusterizar correctamente.



Modelo General de los Subprocesos de Process Documents from Data



**Tokenize**: Eliminó todos los caracteres que no sean letras



Configuración de proceso Tokenize

Filter Tokens by length: Eliminó palabras token segun una medida (4 mínimo -25 máximo)

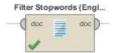


**Transform cases:** para la correcta tokenization se procede a que todos los caracteres sean mayúsculas para que no haya una falla de análisis de clusters por mala identificación de minusculas y mayusculas de las palabras.





**Filter Stopwords:** Filtro palabras que fueron seleccionadas por 3eros, ya que son identificadas como prefijos, sufijos o palabras que no alimentan a mi modelo de clusterización.



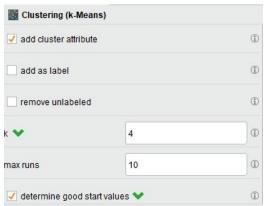
**Stem (Porter):** Este proceso permite analizar el lenguaje natural, ya que permite reducir las palabras a su base o raíz. Esto permite que palabras similares se reducen a formas relacionadas. Ejemplo: pesca, pescado, pescador y pescador se reduce a la palabra base," pescado ".



**Clustering**: Este proceso realiza el algoritmo k-means donde se determina un conjunto de k clústeres y asigna cada registro al cluster más cercano. Así se busca agrupar a los registros segun la cercanía de los punto a su centroide, tomando la cercanía como una medida numérica siendo medida en la distancia entre estos.



**Configuración proceso Clustering**: Dado que es importante correr distintos números de clusters (k), se procedieron a realizar distintas corridas con distintos k, estos resultados se analizan en la seccion de *Analisis de Resultados*. Así, concluyo que el número de clusters preciso para este problema con estos recursos es de 4.

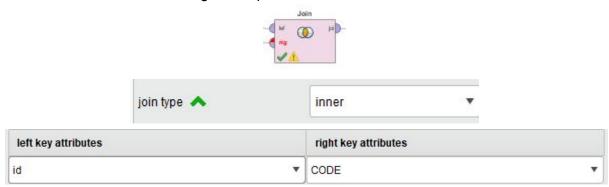


**Performance**: Este proceso permite normalizar los datos para que todos contengan un valor semejante pero no igual.



main criterion 💙	Avg. within centroid distan ▼
main criterion only	
✓ normalize	
✓ maximize	

**Join**: Dado la selección de atributos mencionados en el proceso Select Attributes, es necesario unir el id con el código, esto permite la fácil identificación de los clusters.



**Write Excel:** Los resultados de la clusterización se guardan en un archivo para realizar tablas dinámicas y gráficas que expliquen el fenómeno que se esta tratando.



### ANÁLISIS DE RESULTADOS Análisis de las medidas de distancia (entre centroides y entre centroides-puntos) con k=2

	k=2									
	Medida	Total								
	Avg. within centroid distance	0,049			Total Clasificación					
cluster_0	Avg. within centroid	0,047		cluster_0	351					

distance			
Avg. within centroid distance	0,079	cluster_1	28
Daves Bouldin	0,001	Total	379

# Análisis de las medidas de distancia (entre centroides y entre centroides-puntos) con k=3

	k=3									
	Medida	Total								
	Avg. within centroid distance	0,051		Cluster	Total Clasificación					
cluster_0	Avg. within centroid distance	0,061		cluster_0	306					
cluster_1	Avg. within centroid distance	0,041		cluster_1	44					
cluster_2	Avg. within centroid distance	0,079		cluster_2	29					
	Daves Bouldin	0,002		Total	379					

# Análisis de las medidas de distancia (entre centroides y entre centroides-puntos) con k=4

	k=4				
	Medida	Total		Cluster	Total Clasificación
	Avg. within centroid distance	0,051		cluster_0	97
cluster_0	Avg. within centroid distance	0,061		cluster_1	229
cluster_1	Avg. within centroid distance	0,041		cluster_2	29
cluster_2	Avg. within centroid distance	0,079		cluster_3	24
cluster_3	Avg. within centroid distance	0,08		Total	379
	Daves Bouldin	0,002			

# Análisis de las medidas de distancia (entre centroides y entre centroides-puntos) con k=5

	k=5		
Medida	Total		

	Avg. within centroid distance	0,051	Cluster	Total Clasificación
cluster_0	Avg. within centroid distance	0,078	cluster_0	29
cluster_1	Avg. within centroid distance	0,065	cluster_1	40
cluster_2	Avg. within centroid distance	0,044	cluster_2	277
cluster_3	Avg. within centroid distance	0,071	cluster_3	32
cluster 4	Avg. within centroid distance	0,237	cluster 4	1
	Daves Bouldin	0,001	 Total	379

# Análisis de las medidas de distancia (entre centroides y entre centroides-puntos) con k=6

	k=6				
	Medida	Total			
	Avg. within centroid distance	0,052		Cluster	Total Clasificación
cluster_0	Avg. within centroid distance	0,072		cluster_0	31
cluster_1	Avg. within centroid distance	0,069		cluster_1	37
cluster_2	Avg. within centroid distance	0,066		cluster_2	15
cluster_3	Avg. within centroid distance	0,042		cluster_3	256
cluster_4	Avg. within centroid distance	0,07		cluster_4	36
cluster_5	Avg. within centroid distance	0,133		cluster_5	4
	Daves Bouldin	0,001		Total	379

El análisis de estos resultados, parte desde las distancias entre punto-centroide, distancias entre centroides, medidas daves boudin y finalmente la el número de clasificados por cluster.

**Analisis distancia punto-centroide:** Este análisis debe concluir en que las distancias deben ser mínimas, ya que esto asegura que el cluster es el indicado. Dicho esto se puede decir que con  $k = \{3,4,5\}$  puede ser el k indicado para la clusterización, ya que las distancias son mínimas entre clusters, a comparación de los otros k.

**Analisis distancia centroides:** Este análisis debe concluir la distancia máxima encontrada, ya que esto nos dice que los clusters se encuentran lo suficientemente lejanos uno del otro. Dado esto, concluyo que con k={3,4,5,6}se puede hallar el k ideal, las distancias de estos k son iguales, pero mayor a k=2.

**Análisis Davies–Bouldin:** Este análisis debe concluir en el índice de similitud entre elementos, dado esto se concluye que k={3,4} se halla mayor índice de similitud.

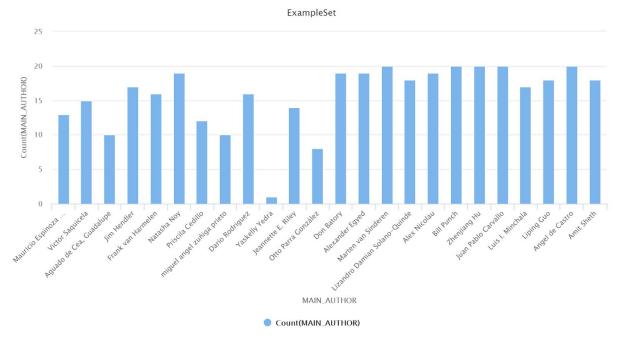
**Analisis Número de Clasificaciones:** Este análisis concluye a que con un k dado, la distribución en las clasificaciones debe ser correcta, sin concentrar en algún cluster la mayoría. En este caso dado se ve que hay mucha polarización, sin embargo con k=4 se ve una mejor distribución de elementos.

#### Elección Final

Dado los análisis anteriores, se crea la siguiente tabla, la cual nos permite identificar que el mejor k para este caso particular es 4.

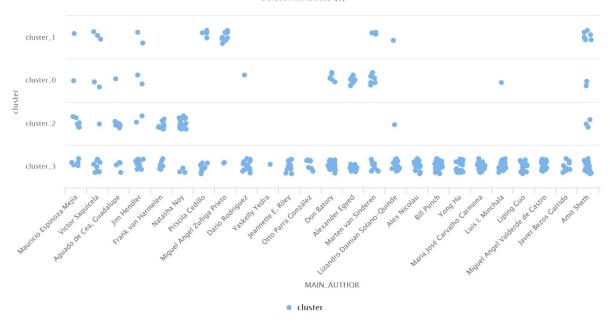
k	Distancia P-C	Distancia Centroides	Davies-Bouldi n	Total Clasificación
2	Х	X	Х	X
3	٧	V	V	Х
4	V	V	V	V
5	V	V	Х	Х
6	Х	V	X	Х

# RESULTADOS CLUSTERIZACIÓN Gráfica Barras Cantidad de Investigaciones en las que aparece un Investigador:

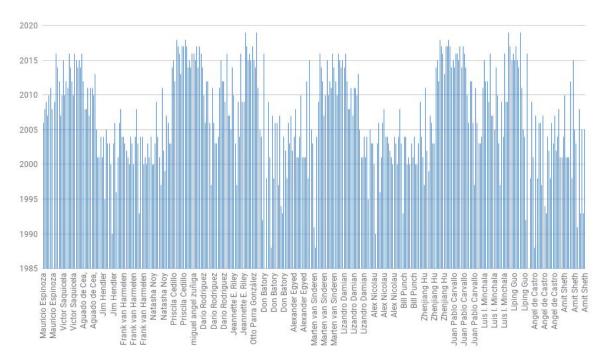


Gráfica Scatter Investigador vs Cluster





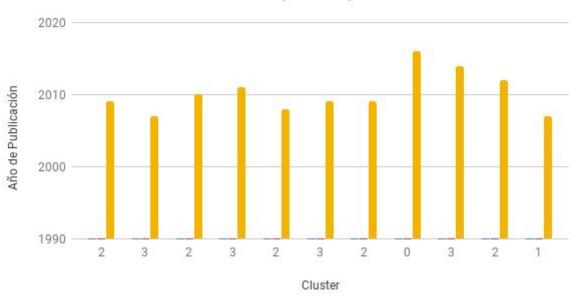
#### Histograma años de investigación de un Investigador



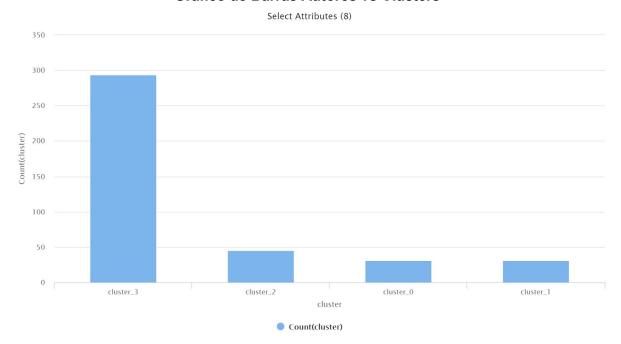
Histograma Año Publicacion vs Cluster vs Publicaciones Caso de Estudio: Investigador Mauricio Espinoza Mejía

# Histograma Publicaciones vs Años vs Cluster

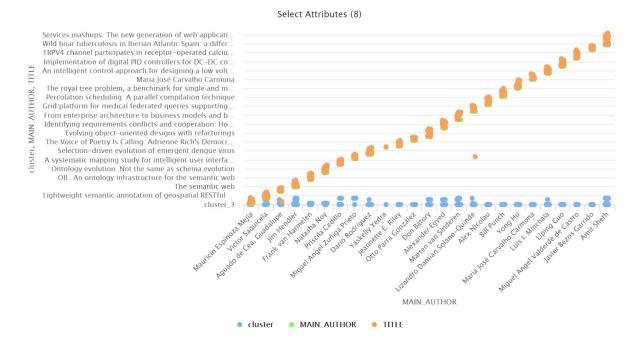
Mauricio Espinoza Mejía



#### Gráfico de Barras Autores vs Clusters



Gráfica de Autores vs Publicaciones vs Clusters



# Medidas Daves Boudin - Distancia entre Centroide- Distancia Punto-Centroide Con 4 centroides

	Medida	Total
	Avg. within centroid distance	0,051
cluster_0	Avg. within centroid distance	0,061
cluster_1	Avg. within centroid distance	0,041
cluster_2	Avg. within centroid distance	0,079
cluster_3	Avg. within centroid distance	0,080
	Daves Bouldin	0,002

Evidencia RapidMiner:

# Avg. within centroid distance

Avg. within centroid distance: 0.051

# Avg. within centroid distance\_cluster\_0

Avg. within centroid distance\_cluster\_0: 0.061

# Avg. within centroid distance\_cluster\_1 Avg. within centroid distance\_cluster\_2

Avg. within centroid distance\_cluster\_1: 0.041 Avg. within centroid distance\_cluster\_2: 0.079

# Avg. within centroid distance\_cluster\_3

ster\_3 Davies Bouldin

Avg. within centroid distance\_cluster\_3: 0.080

Davies Bouldin: 0.002

#### Resultado Clusters y el número de clasificaciones:

Cluster	Total Clasificación
cluster_0	97
cluster_1	229
cluster_2	29
cluster_3	24
Total	379

### TABLA DINÁMICA CLUSTER vs AUTOR

Explicación: Esta tabla busca representar el autor de cada uno de los clusters.

Autor
Aguado de Cea, Guadalupe
Alexander Egyed
Amit Sheth
Dario Rodriguez
Don Batory
Jim Hendler
Luis I. Minchala
Marten van Sinderen
Mauricio Espinoza Mejía
Victor Saquicela
Amit Sheth
Jim Hendler
Lizandro Damian Solano-Quinde
Marten van Sinderen
Mauricio Espinoza Mejía
Miguel Angel Zuñiga Prieto
Priscila Cedillo
Victor Saquicela
Aguado de Cea, Guadalupe
Amit Sheth
Frank van Harmelen
Jim Hendler
Lizandro Damian Solano-Quinde
Mauricio Espinoza Mejía
Natasha Noy
Victor Saquicela
Aguado de Cea, Guadalupe
Alex Nicolau
Alexander Egyed
Amit Sheth
Bill Punch
Dario Rodriguez
Don Batory
Frank van Harmelen
Javier Bezos Garrido
Jeannette E. Riley
Jocarnictic L. Micy

Liping Guo	
Lizandro Damian Solano-Quinde	
Luis I. Minchala	
Maria José Carvalho Carmona	
Marten van Sinderen	
Mauricio Espinoza Mejía	
Miguel Angel Valderde de Castro	
Miguel Angel Zuñiga Prieto	
Natasha Noy	
Otto Parra González	
Priscila Cedillo	
Victor Saquicela	
Yaskelly Yedra	
Yong Hu	

### TABLA DINÁMICA CLUSTER vs PUBLICACION

Explicacion: Esta tabla busca representar la publicacion dado uno de los clusters.

Cluster	Publicación		
	A comparative study of black-box models for cement quality prediction using		
cluster_0	input-output measurements of a closed circuit grinding		
	A goal-oriented requirements modelling language for enterprise architecture		
	A scenario-driven approach to traceability		
	An ontologically well-founded profile for UML conceptual models		
	An ontology-based approach for evaluating the domain appropriateness and comprehensibility appropriateness of modeling languages		
	An overview of workflow management: From process modeling to workflow		
	automation infrastructure		
	Automated analysis of feature models: challenges ahead		
	Automatically detecting and tracking inconsistencies in software design models		
	Automating DAML-S web services composition using SHOP2		
	Bridging models across the software lifecycle		
	COSMO: A conceptual framework for service modelling and refinement		
	Extending enterprise architecture modelling with business goals and requirements		
	Feature models, grammars, and propositional formulas		
	From enterprise architecture to business models and back		
	Generating and evaluating choices for fixing inconsistencies in UML design models		
	Hacia la Creación de un Repositorio Semántico de Modelos de Contexto Basados en i* y el método DHARMA		
	Instant consistency checking for the UML		
	Localizing ontologies in OWL		

	Mapping the Business Model Canvas to ArchiMate		
	Modeling concepts for VLSI CAD objects		
	On the role of domain ontologies in the design of domain-specific visual		
	modeling languages		
	Reasoning about edits to feature models		
	Reconciling software requirements and architectures with intermediate models		
	Scalable consistency checking between diagrams-The VIEWINTEGRA approach		
	Search for diphoton events with large missing transverse momentum in 7 TeV proton–proton collision data with the ATLAS detector		
	Semantic web for the working ontologist: effective modeling in RDFS and OWL		
	Specifying and enforcing intertask dependencies		
	The design and implementation of hierarchical software systems with reusable components		
	Towards the creation of a semantic repository of iStar-based context models		
cluster_1	A Monitoring Infrastructure for the Quality Assessment of Cloud Services		
	A Systematic Mapping Study of Specification Languages in Cloud Services Development		
	Adding semantic annotations into (geospatial) restful services		
	Adding semantics to web services standards		
	An incremental and model driven approach for the dynamic reconfiguration of cloud application architectures		
	Architecture description language for incremental integration of cloud services architectures		
	Automation of the Incremental Integration of Microservices Architectures		
	Automatización del proceso de despliegue de servicios en la nube		
	Context-aware, ontology-based service discovery		
	Discovering web services using semantic keywords		
	Dynamic reconfiguration of cloud application architectures		
	Framework for Dynamic Architecture Reconfiguration of Cloud Services.		
	HTN planning for web service composition using SHOP2		
	Incremental Integration of Microservices in Cloud Applications		
	Lightweight semantic annotation of geospatial RESTful services		
	METEOR-S web service annotation framework		
	METEOR-S WSDI: A scalable P2P infrastructure of registries for semantic publication and discovery of web services		
	Methodological support for service-oriented design with ISDL		
	Monitoring services quality in the cloud		
	Quality of service for workflows and web service processes		
	Semantic annotation of RESTful services using external resources		
	Semantic e-workflow composition		
	Semi-automatic composition of web services using semantic descriptions		
	Service level agreement in cloud computing		
	Towards a Model-Driven Dynamic Architecture Reconfiguration Process for Cloud Services Integration.		
	Towards a monitoring middleware for cloud services		
	•		

	Towards a service platform for mobile context-aware applications.
	Towards Monitoring Cloud Services using Models@ run. time.
	Web service semantics-wsdl-s
cluster_2	A component-based framework for ontology evolution
oldotol_2	A framework for ontology evolution in collaborative environments
	A note on ontology localization
	A Semantic Web Primer
	Algorithm and tool for automated ontology merging and alignment
	An automatic method for the enrichment of dicom metadata using biomedical
	ontologies
	Anchor-PROMPT: Using Non-Local Context for Semantic Matching.
	Bibster-a semantics-based bibliographic peer-to-peer system
	Bibster–a semantics-based bibliographic peer-to-peer system
	Biomedical ontologies: a functional perspective
	BioPortal: enhanced functionality via new Web services from the National
	Center for Biomedical Ontology to access and use ontologies in software applications
	BioPortal: ontologies and integrated data resources at the click of a mouse
	C-owl: Contextualizing ontologies
	Enriching an ontology with multilingual information
	Enriching ontologies with multilingual information
	Handbook of knowledge representation
	Interchanging lexical resources on the semantic web
	LabelTranslator-a tool to automatically localize an ontology
	Modelling multilinguality in ontologies
	Multilingual and localization support for ontologies
	Natural language-based approach for helping in the reuse of ontology design patterns
	OBSERVER: An approach for query processing in global information systems based on interoperation across pre-existing ontologies
	OIL in a nutshell
	OIL: An ontology infrastructure for the semantic web
	ONTOGENERATION: Reusing domain and linguistic ontologies for Spanish text generation
	Ontology development 101: A guide to creating your first ontology
	Ontology evolution: Not the same as schema evolution
	Ontology localization
	OntoQA: Metric-based ontology quality analysis
	OWL web ontology language reference
	Plataforma para la búsqueda por contenido visual y semántico de imágenes médicas
	Promptdiff: A fixed-point algorithm for comparing ontology versions
	Protégé-2000: an open-source ontology-development and knowledge-acquisition environment.
	Representing translations on the semantic web
	Semantic integration: a survey of ontology-based approaches

	SMART: Automated support for entology marging and alignment				
	SMART: Automated support for ontology merging and alignment  Spinning the Semantic Web: bringing the World Wide Web to its full potential				
	Spinning the Semantic Web: bringing the World Wide Web to its full potential  The PROMPT suite: interactive tools for entology marging and mapping				
	The PROMPT suite: interactive tools for ontology merging and mapping  The Protégé OWL plugin: An open development environment for semantic web				
	applications				
	The semantic web: The roles of XML and RDF				
	The SSN ontology of the W3C semantic sensor network incubator group				
	The state of the art in ontology design: A survey and comparative review				
	Towards the semantic web: ontology-driven knowledge management				
	Web ontology language: Owl				
	"questing toward what might otherwise be:" Adrienne				
cluster_3	Rich's Later Work				
	A case study implementing features using AspectJ				
	A configurable simulation environment for the efficient simulation of large-scale				
	spiking neural networks on graphics processors				
	A constant voltage MPPT method for a solar powered boost converter with DC				
	motor load				
	A framework for web science				
	A Genetic Algorithm Approach to Dynamic Job Shop Scheduling Problem.				
	A magnetically separable photocatalyst based on nest-like γ-Fe 2 O				
	3/ZnO double-shelled hollow structures with enhanced photocatalytic activity				
	A microwave-assisted rapid route to synthesize ZnO/ZnS core–shell				
	nanostructures via controllable surface sulfidation of ZnO nanorods				
	A mixture model for clustering ensembles				
	A model predictive control approach for integrating a master generation unit in a microgrid				
	A Model-driven Method and a Tool for Developing Gesture-based Information Systems Interface				
	A model-driven method for gesture-based interface requirements specification.				
	A portrait of the Semantic Web in action				
	A review of humor in educational settings: Four decades of research				
	A Review of Optimal Control Techniques Applied to the Energy Management and Control of Microgrids				
	A scenario-driven approach to trace dependency analysis				
	A stakeholder win–win approach to software engineering education				
	A Standard GA Approach to Native Protein Conformation Prediction.				
	A systematic literature review on devices and systems for ambient assisted				
	living: Solutions and trends from different user perspectives				
	A systematic mapping study for intelligent user interfaces-iui				
	Ab initio determination of solid-state nanostructure				
	Achieving extensibility through product-lines and domain-specific languages: A				
	case study				
	Acute activation of Maxi-K channels (hSlo) by estradiol binding to the β subunit				
	Adapting cache line size to application behavior				
	Adaptive bitonic sorting: An optimal parallel algorithm for shared-memory machines				

А	daptive clustering ensembles
	gents and the semantic web
	Ibendazole therapy for neurocysticercosis
A	Ill-trans retinoic acid modulates fas expression and enhances chemosensitivity f human medulloblastoma cells.
Α	n empirical comparative evaluation of gestUI to include gesture-based ateraction in user interfaces
Α	n intelligent control approach for designing a low voltage DC breaker
	n open source scada system to implement advanced computer integrated nanufacturing
Α	nálisis de rendimiento y profiling del modelo WRF en un clúster HPC
	polipoprotein E4 genotype increases the risk of postoperative cognitive ysfunction in patients undergoing coronary artery bypass graft surgery
A	architecture and specification style in formal descriptions of distributed systems assembling carbon-coated α-Fe 2 O 3 hollow nanohorns on the CNT ackbone for superior lithium storage capability
A	ssessment of diagnostic tools for eradication of bovine tuberculosis in cattle o-infected with Mycobacterium bovis and M. avium subsp. paratuberculosis
V	assessment of factors that influence weaning from long-term mechanical entilation after cardiac surgery
Α	telectasis during anesthesia: pathophysiology and treatment
Α	automated abstraction of class diagrams
Α	automatic parallelization of GPU applications using OpenCL
Α	automatic program parallelization
р	aradigm
	secoming an agent of change': Eavan Boland's 'Outside listory'and 'In a Time Of Violence
В	Sovine tuberculosis (Mycobacterium bovis) in wildlife in Spain
В	reaking boundaries: Ecofeminism in the classroom
	Carbon‐Coated CdS Petalous Nanostructures with Enhanced Photostability and Photocatalytic Activity
	Cardiopulmonary bypass alters the pharmacokinetics of propranolol in patients ndergoing cardiac surgery
C	Cell volume regulation and swelling-activated chloride channels
	Cervical human papillomavirus screening among older women
S	Changing Focus on Interoperability in Information Systems: From System, Syntax, Structure to Semantics
	Characteristics of Successful Local Blended Programs in the Context of the Bloan-C Pillars.
C	Characterizing artifacts in RR stress test time series
	Clustering ensembles: Models of consensus and weak partitions
	Coarse grain computation-communication overlap for efficient application-level heckpointing for GPUs
	Coarse-grain parallel genetic algorithms: Categorization and new approach
	Coating colloidal carbon spheres with CdS nanoparticles: microwave-assisted ynthesis and enhanced photocatalytic activity

Combined search for the Standard Model Higgs boson using up to 4.9 fb− 1 of pp collision data at s= 7TeV with the ATLAS detector at the LHC
Combining multiple weak clusterings
Combining statistical and semantic approaches to the translation of ontologies and taxonomies
Comparative evaluation of linear PID and fuzzy control for a boost converter
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Comparison of four different culture media for isolation and growth of type II and type I/III Mycobacterium avium subsp. paratuberculosis strains isolated from cattle and goats
Comparison of the performance and energy consumption index of model-based controllers
Composition validation and subjectivity in GenVoca generators
Computed tomography assessment of lung structure in patients undergoing cardiac surgery with cardiopulmonary bypass
Construction of hierarchical Ni–Co–P hollow nanobricks with oriented nanosheets for efficient overall water splitting
Contemporary feminist writers: Envisioning a just world
Coordinated parallelizing compiler optimizations and high-level synthesis
Creating semantic web contents with protege-2000
Current ante-mortem techniques for diagnosis of bovine tuberculosis
D5. 4.3. Revision and Extension of the NeOn Methodology for Building Contextualized Ontology Networks
DE LA BRECHA SOCIAL A LA BRECHA TECNOLÓGICA Y COGNITIVA
Definición de Mecanismos Personalizados de Monitorización de Servicios Cloud
Design and implementation of a smart meter with demand response capabilities
Design of an integrated decision support system for library holistic evaluation
Design projects in a programmable logic controller (PLC) course in electrical engineering technology
Detecting similar areas of knowledge using semantic and data mining technologies
Differential effects of tamoxifen and I− on three distinguishable chloride currents activated in T84 intestinal cells
Digital controller design for buck and boost converters using root locus techniques
Dimensionality reduction using genetic algorithms
Discovering the Semantics of User Keywords.
Distinct mechanisms for the impact of distraction and interruption on working memory in aging
Eavan Boland's" The Lost Land": Altering the Cartography of the Irish Poem
Effect of paratuberculosis on the diagnosis of bovine tuberculosis in a cattle herd with a mixed infection using interferon-gamma detection assay
Effects of nano-TiO2 on photosynthetic characteristics of Ulmus elongata seedlings

Inffects of Cinals Law Doos of Devermethesons before Negoridias and
Effects of Single Low Dose of Dexamethasone before Noncardiac and Nonneurologic Surgery and General Anesthesia on Postoperative Cognitive
Dysfunction—A Phase III Double Blind …
Efficient self-propelling of small-scale condensed microdrops by closely packed
ZnO nanoneedles
Efficient utilization of scratch-pad memory in embedded processor applications
Electronic pillow for abating snoring/environmental noises, hands-free
communications, and non-invasive monitoring and recording
Enhancing clone-and-own with systematic reuse for developing software variants
Enriching electronic program guides using semantic technologies and external resources
Ensembles of partitions via data resampling
Environmental estrogenic pollutants induce acute vascular relaxation by inhibiting L-type Ca2+ channels in smooth muscle cells
Eradication of bovine tuberculosis at a herd-level in Madrid, Spain: study of
within-herd transmission dynamics over a 12 year period
Evaluating the usability of mashups applications
Evaluation of DSP-based PID and fuzzy controllers for DC–DC converters
Evaluation of the sensitivity and specificity of bovine tuberculosis diagnostic tests in naturally infected cattle herds using a Bayesian approach
Evaluation of two cocktails containing ESAT-6, CFP-10 and Rv-3615c in the
intradermal test and the interferon-γ assay for diagnosis of bovine tuberculosis
Evidence of goats acting as domestic reservoirs of bovine tuberculosis
Evolving object-oriented designs with refactorings
Experimental infection with Mycobacterium caprae in goats and evaluation of immunological status in tuberculosis and paratuberculosis co-infected animals
Exponential stability of impulsive stochastic functional differential equations
EXPRESSION: A language for architecture exploration through compiler/simulator retargetability
Extending and validating gestUI using technical action research
Facile Formation of Mesoporous BiVO4/Ag/AgCl Heterostructured Microspheres with Enhanced Visible-Light Photoactivity
Facile one-pot synthesis of uniform TiO 2–Ag hybrid hollow spheres with enhanced photocatalytic activity
Facile one-step microwave-assisted route towards Ni nanospheres/reduced graphene oxide hybrids for non-enzymatic glucose sensing
Facile synthesis of Z-scheme Ag 2 CO 3/Ag/AgBr ternary heterostructured
nanorods with improved photostability and photoactivity
Faster genetic programming based on local gradient search of numeric leaf values
Fault diagnosis in power lines using Hilbert transform and fuzzy classifier
Fault identification and classification of spur gearbox with feed forward back propagation artificial neural network
Fault-tolerant control of a master generation unit in an islanded microgrid
Fault-tolerant control with linear quadratic and model predictive control techniques against actuator faults in a quadrotor UAV

Fault‐tolerant controller design for a master generation unit in an isolated hybrid wind‐diesel power system
Feature oriented refactoring of legacy applications
Feature-oriented programming and the AHEAD tool suite
Feature-oriented software product lines
Federated database systems for managing distributed, heterogeneous, and
autonomous databases
Finding one's place in the "Family of Things": Terry
Tempest Williams and a Geography of Self
Fixing inconsistencies in UML design models
Formation and restraint of toxic emissions in hydrogen-gasoline mixture fueled
engines
Formation of Mesoporous Heterostructured BiVO4/Bi2S3 Hollow Discoids with Enhanced Photoactivity
Four cobalt (II) coordination polymers with diverse topologies derived from
flexible bis (benzimidazole) and aromatic dicarboxylic acids: syntheses, crystal
structures and …
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structures
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Gain-of-function mutation in the KCNMB1 potassium channel subunit is
associated with low prevalence of diastolic hypertension
GENESIS: An extensible database management system
Genetic algorithms for object recognition in a complex scene
Genetic diversity of Mycobacterium avium isolates recovered from clinical
samples and from the environment: molecular characterization for diagnostic
purposes
Geographical linked data: a Spanish use case
GeoLinked data and INSPIRE through an application case
gestUl tool: A Tool to Include Gesture-based Interaction in User Interfaces
Through Model-Driven
GestUI: A Model-driven Method and Tool for Including Gesture-based
Interaction in User Interfaces
GPU Acceleration of the Horizontal Diffusion method in the Weather Research
and Forecasting (WRF) Model
Grid platform for medical federated queries supporting semantic and visual
annotations
Growth promotion of the freshwater microalga Chlorella vulgaris by the
nitrogen-fixing, plant growth-promoting bacterium Bacillus pumilus from arid
zone soils
Guided self‐propelled leaping of droplets on a micro‐anisotropic
superhydrophobic surface
Guidelines for multilingual linked data
High spoligotype diversity within a Mycobacterium bovis population: clues to
understanding the demography of the pathogen in Europe
How effective are multiple populations in genetic programming

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HTN planning: Complexity and expressivity
Human CIC-3 is not the swelling-activated chloride channel involved in cell
volume regulation
Human TRPV4 channel splice variants revealed a key role of ankyrin domains
in multimerization and trafficking
Humans as source of Mycobacterium tuberculosis infection in cattle, Spain
Hyperkalemia accompanies hemorrhagic shock and correlates with mortality
Identifying requirements conflicts and cooperation: How quality attributes and automated traceability can help
Implementation of blended learning for the improvement of student learning
Implementation of digital PID controllers for DC-DC converters using digital signal processors
Implementing layered designs with mixin layers
Including multi-stroke gesture-based interaction in user interfaces using a
model-driven method
Inferring binary trust relationships in web-based social networks
Information accountability
Infraestructura basada en Globus Toolkit para dar soporte a repositorios
distribuidos de imágenes médicas
Inhaled nitric oxide leading to pulmonary edema in stable severe heart failure
Integrated power management for video streaming to mobile handheld devices
Integration of digital repositories through federated queries using semantic
technologies
Intelligent pillbox: Automatic and programmable Assistive Technology device
Interference of paratuberculosis with the diagnosis of tuberculosis in a goat
flock with a natural mixed infection
Interlinking geospatial information in the web of data
IP3 sensitizes TRPV4 channel to the mechano-and osmotransducing messenger 5′-6′-epoxyeicosatrienoic acid
Isolation of Chlamydia pneumoniae from a Carotid Endarterectomy Specimen
JTS: Tools for implementing domain-specific languages
Kinect v2 for mobile robot navigation: Evaluation and modeling
L‐Arginine reduces heart rate and improves hemodynamics in severe
congestive heart failure
lilgp 1.01 user's manual
Literature review of data mining applications in academic libraries
Low doses of inhaled nitric oxide in heart transplant recipients.
Magnetic-field induced formation of 1D Fe 3 O 4/C/CdS coaxial nanochains as
highly efficient and reusable photocatalysts for water treatment
Maxi K+ channel mediates regulatory volume decrease response in a human
bronchial epithelial cell line
Measurements of the electron and muon inclusive cross-sections in
marker 9,40044 markers collisions at a ZToV, with the ATLAC dataster
proton–proton collisions at s= 7TeV with the ATLAS detector
Measuring the parallelism available for very long instruction word architectures
Measuring the parallelism available for very long instruction word architectures  Method and Product For Determining Salient Features For Use In Information
Measuring the parallelism available for very long instruction word architectures

Microwave-assisted non-aqueous route to deposit well-dispersed ZnO nanocrystals on reduced graphene oxide sheets with improved photoactivity for the decolorization of dyes … Microwave-assisted synthesis of porous CdO–CdS core–shell nanoboxes with enhanced visible-light-driven photocatalytic reduction of Cr (VI) Microwave‐Assisted Synthesis of Porous Ag2S–Ag Hybrid Nanotubes with High Visible‐Light Photocatalytic Activity Middleware support for quality of context in pervasive context-aware systems Minimizing the power consumption in Raspberry Pi to use as a remote WSN gateway Mixin layers: an object-oriented implementation technique for refinements and collaboration-based designs Mobile teleradiology system suitable for m-health services supporting content and semantic based image retrieval on a grid infrastructure Model-based fault-tolerant control to guarantee the performance of a hybrid wind-diesel power system in a microgrid configuration Module prototype for online failure prediction for the ibm Blue Gene/L Molecular epidemiology of multidrug-resistant Mycobacterium bovis isolates with the same spoligotyping profile as isolates from animals Molecular epidemiology of Types I/III strains of Mycobacterium avium subspecies paratuberculosis isolated from goats and cattle MOOCEP, un método para construir cursos masivos para adultos mayores: usando una creación MOOCEP MOOCEP: A Method for Building Massive Open Online Courses for Elderly People The Analysis Activity MOOCEP: Towards a method for building massive open online courses for elderly people Multi-GPU implementation of the Horizontal Diffusion method of the Weather Research and Forecast Model Mycobacterium caprae infection in livestock and wildlife, Spain Nonlinear robust H-Infinity PID controller for the multivariable system quadrotor Observation of a Centrality-Dependent Dijet Asymmetry in Lead-Lead Collisions at with the ATLAS Detector at the LHC On the notion of abstract platform in MDA development On-chip vs. off-chi	
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Phenotype at diagnosis predicts recurrence rates in Crohn's disease
PID controller modifications to improve steady-state performance of digital
controllers for buck and boost converters
Polymorphisms in gyrA and gyrB genes among Mycobacterium avium subsp. paratuberculosis type I, II, and III isolates
Potassium in hemorrhagic shock: a potential marker of tissue hypoxia
Precision electroweak measurements on the Z resonance
Predicting conserved water-mediated and polar ligand interactions in proteins using a K-nearest-neighbors genetic algorithm
Predicting student performance: an application of data mining methods with an educational web-based system
Profile-based dynamic voltage scheduling using program checkpoints
Protein kinase C‐mediated phosphorylation of the human multidrug resistance P‐glycoprotein regulates cell volume‐activated chloride channels.
PWM-based adaptive sliding-mode control for boost DC–DC converters
Quality of web mashups: a systematic mapping study
Quality-of-context and its use for protecting privacy in context aware systems
Querying the web: A multiontology disambiguation method
Race, subjective and the interview process
RCAN1 (DSCR1) increases neuronal susceptibility to oxidative stress: a potential pathogenic process in neurodegeneration
Rdf-ization of dicom medical images towards linked health data cloud
Readings in planning
Reconciling software requirements and architectures: The cbsp approach
Reliability of clinical guidelines in the detection of patients at risk following mild head injury: results of a prospective study
Rippling: A heuristic for guiding inductive proofs
RR Stress Test Time Series classification using Neural networks
Safe composition of product lines
Scalable software libraries
Scaling step-wise refinement
Search for neutral MSSM Higgs bosons at LEP  Search for new phenomena in final states with large jet multiplicities and
missing transverse momentum using = 7 TeV pp collisions with the ATLAS detector
Search for squarks and gluinos using final states with jets and missing transverse momentum with the ATLAS detector in s= 7 TeV proton–proton collisions
Seed-mediated synthesis of NaY F4: Y b, Er/NaGdF4 nanocrystals with improved upconversion fluorescence and MR relaxivity
Selection-driven evolution of emergent dengue virus
Semantic and schematic similarities between database objects: a context-based approach
Semantic sensor web
SemRank: ranking complex relationship search results on the semantic web
Seminarik. Tanking complex relationship search results on the semantic web

Separation of drug transport and chloride channel functions of the human multidrug resistance P-glycoprotein
Services mashups: The new generation of web applications
Sesame: A generic architecture for storing and querying rdf and rdf schema
Situations in conceptual modeling of context
So far (schematically) yet so near (semantically)
Software requirements negotiation: some lessons learned
SPARK: A high-level synthesis framework for applying parallelizing compiler transformations
SPARK: a parallelizing approach to the high-level synthesis of digital circuits
Specification styles in distributed systems design and verification
Students coming to voice: The transformative influences of feminist pedagogies
Supporting context-aware mobile applications: an infrastructure approach
Supporting software understanding with automated requirements traceability
Supporting Sustained Faculty Engagement in Blended Learning
Swelling-activated Ca2+ entry via TRPV4 channel is defective in cystic fibrosis airway epithelia
Synthesis of novel nickel sulfide submicrometer hollow spheres
System and method for creating a semantic web and its applications in
browsing, searching, profiling, personalization and advertising
Tailoring User Interfaces to Include Gesture-Based Interaction with gestUI
Tamoxifen blocks chloride channels. A possible mechanism for cataract formation.
Techniques for the parallelization of unstructured grid applications on multi-GPU systems
The asthma-associated ORMDL3 gene product regulates endoplasmic reticulum-mediated calcium signaling and cellular stress
The DARPA agent markup language
The Eco-Narrative and the Enthymeme: Form and Engagement in Environmental Writing
The effects of positive end-expiratory pressure on respiratory system mechanics and hemodynamics in postoperative cardiac surgery patients
The estrogen trinity: membrane, cytosolic, and nuclear effects
The evolution of Protégé: an environment for knowledge-based systems development
The knowledge model of Protege-2000: Combining interoperability and flexibility
The lemon cookbook
The royal tree problem, a benchmark for single and multi-population genetic programming
The semantic web
The semantic web and its languages
The semantic web: Research and applications
The Voice of Poetry Is Calling: Adrienne Rich's Democratic Impulse
Thermal filament continuous thermodilution cardiac output delayed response limits its value during acute hemodynamic instability
Towards an application framework for context-aware m-health applications
Traceability fundamentals

Trajectory tracking of a quadrotor using sliding mode control
Transparent dynamic reconfiguration for CORBA
TRPV4 channel is involved in the coupling of fluid viscosity changes to epithelial ciliary activity
TRPV4 channel participates in receptor-operated calcium entry and ciliary beat frequency regulation in mouse airway epithelial cells
Trust networks on the semantic web
TSQL2 language specification
Ultrasound-guided percutaneous dilational tracheostomy versus bronchoscopy-guided percutaneous dilational tracheostomy in critically ill patients (TRACHUS): a randomized …
UMCP: A Sound and Complete Procedure for Hierarchical Task-network Planning.
Understanding Adrienne Rich
Uniform hamburger-like mesoporous carbon-incorporated ZnO nanoarchitectures: One-pot solvothermal synthesis, high adsorption and visible-light photocatalytic decolorization of dyes
Unstructured grid applications on GPU: performance analysis and improvement Using genetic algorithms for data mining optimization in an educational web-based system
Using the WinWin spiral model: a case study
Volume-activated chloride channels in HeLa cells are blocked by verapamil and dideoxyforskolin
Volume-regulated chloride channels associated with the human multidrug-resistance P-glycoprotein
Web ontology language
WebMedSA: a web-based framework for segmenting and annotating medical images using biomedical ontologies
Wild boar tuberculosis in Iberian Atlantic Spain: a different picture from Mediterranean habitats

### TABLA DINÁMICA CLUSTER vs AUTOR vs PUBLICACION

Explicacion: Esta tabla busca representar el autor y publicacion dado uno de los clusters.

Cluster	Autor	Publicacion
	Aguado de	
	Cea,	
cluster_0	Guadalupe	Localizing ontologies in OWL
	Alexander	
	Egyed	A scenario-driven approach to traceability
		Automatically detecting and tracking inconsistencies in software
		design models
		Bridging models across the software lifecycle
		Generating and evaluating choices for fixing inconsistencies in
		UML design models
		Instant consistency checking for the UML
		Reconciling software requirements and architectures with
		intermediate models

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		Scalable consistency checking between diagrams-The VIEWINTEGRA approach
		An overview of workflow management: From process modeling to
	Amit Sheth	workflow automation infrastructure
		Specifying and enforcing intertask dependencies
		Search for diphoton events with large missing transverse
	Dario Rodriguez	momentum in 7 TeV proton–proton collision data with the ATLAS detector
	Don Batory	Automated analysis of feature models: challenges ahead
		Feature models, grammars, and propositional formulas
		Modeling concepts for VLSI CAD objects
		Reasoning about edits to feature models
		The design and implementation of hierarchical software systems with reusable components
	Jim Hendler	Automating DAML-S web services composition using SHOP2
		Semantic web for the working ontologist: effective modeling in RDFS and OWL
		A comparative study of black-box models for cement quality
	Luis I. Minchala	prediction using input-output measurements of a closed circuit grinding
		A goal-oriented requirements modelling language for enterprise
	Sinderen	architecture
		An ontologically well-founded profile for UML conceptual models
		An ontology-based approach for evaluating the domain
		appropriateness and comprehensibility appropriateness of modeling languages
		COSMO: A conceptual framework for service modelling and refinement
		Extending enterprise architecture modelling with business goals and requirements
		From enterprise architecture to business models and back
		Mapping the Business Model Canvas to ArchiMate
		On the role of domain ontologies in the design of domain-specific visual modeling languages
	Mauricio	
	Espinoza Mejía	Hacia la Creación de un Repositorio Semántico de Modelos de Contexto Basados en i* y el método DHARMA
	Victor	Hacia la creación de un repositorio semántico de modelos de
	Saquicela	contexto basados en i* y el método DHARMA
		Towards the creation of a semantic repository of iStar-based context models
cluster_1	Amit Sheth	Adding semantics to web services standards
		METEOR-S web service annotation framework
		METEOR-S WSDI: A scalable P2P infrastructure of registries for semantic publication and discovery of web services
		Quality of service for workflows and web service processes
		Semantic e-workflow composition
		Service level agreement in cloud computing
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		Web service semantics-wsdl-s
	Jim Hendler	HTN planning for web service composition using SHOP2
	Jilli Herialei	Semi-automatic composition of web services using semantic
		descriptions
	Lizandro Damian Solano-Quin de	A Systematic Mapping Study of Specification Languages in Cloud Services Development
	Marten van Sinderen	Context-aware, ontology-based service discovery
		Methodological support for service-oriented design with ISDL
		Towards a service platform for mobile context-aware applications.
	Mauricio Espinoza Mejía	Discovering web services using semantic keywords
	Miguel Angel Zuñiga Prieto	An incremental and model driven approach for the dynamic reconfiguration of cloud application architectures
		Architecture description language for incremental integration of cloud services architectures
		Automation of the Incremental Integration of Microservices Architectures
		Automatización del proceso de despliegue de servicios en la nube
		Dynamic reconfiguration of cloud application architectures
		Framework for Dynamic Architecture Reconfiguration of Cloud Services.
		Incremental Integration of Microservices in Cloud Applications
		Monitoring Services Quality in the Cloud
		Towards a Model-Driven Dynamic Architecture Reconfiguration Process for Cloud Services Integration.
	Priscila Cedillo	A Monitoring Infrastructure for the Quality Assessment of Cloud Services
		Monitoring services quality in the cloud
		Towards a monitoring middleware for cloud services
		Towards Monitoring Cloud Services using Models@ run. time.
	Victor	j j
	Saquicela	Adding semantic annotations into (geospatial) restful services
		Lightweight semantic annotation of geospatial RESTful services
		Semantic annotation of RESTful services using external resources
cluster_2	Aguado de Cea, Guadalupe	Enriching ontologies with multilingual information
5,000.01_2	Jacadalapo	Interchanging lexical resources on the semantic web
		Modelling multilinguality in ontologies
		Natural language-based approach for helping in the reuse of ontology design patterns

	ONTOGENERATION: Reusing domain and linguistic ontologies for Spanish text generation
	Representing translations on the semantic web
Amit Sheth	OBSERVER: An approach for query processing in global information systems based on interoperation across pre-existing ontologies
	OntoQA: Metric-based ontology quality analysis
	The SSN ontology of the W3C semantic sensor network incubator group
Frank van Harmelen	A Semantic Web Primer
	Bibster-a semantics-based bibliographic peer-to-peer system
	Bibster–a semantics-based bibliographic peer-to-peer system
	C-owl: Contextualizing ontologies
	Handbook of knowledge representation
	OIL in a nutshell
	OIL: An ontology infrastructure for the semantic web
	The semantic web: The roles of XML and RDF
	Towards the semantic web: ontology-driven knowledge management
	Web ontology language: Owl
Jim Hendler	OWL web ontology language reference
	Spinning the Semantic Web: bringing the World Wide Web to its full potential
Lizandro Damian Solano-Quin de	Plataforma para la búsqueda por contenido visual y semántico de imágenes médicas
Mauricio Espinoza Mejía	A note on ontology localization
	Enriching an ontology with multilingual information
	LabelTranslator-a tool to automatically localize an ontology
	Multilingual and localization support for ontologies
	Ontology localization
Natasha Noy	A component-based framework for ontology evolution
	A framework for ontology evolution in collaborative environments
	Algorithm and tool for automated ontology merging and alignment
	Anchor-PROMPT: Using Non-Local Context for Semantic Matching.
	Biomedical ontologies: a functional perspective
	BioPortal: enhanced functionality via new Web services from the National Center for Biomedical Ontology to access and use ontologies in software applications
	BioPortal: ontologies and integrated data resources at the click of a mouse

		Ontology dovolonment 101: A guide to erecting your first entelegy
		Ontology development 101: A guide to creating your first ontology
		Ontology evolution: Not the same as schema evolution
		Promptdiff: A fixed-point algorithm for comparing ontology versions
		Protégé-2000: an open-source ontology-development and
		knowledge-acquisition environment.
		Semantic integration: a survey of ontology-based approaches
		SMART: Automated support for ontology merging and alignment
		The PROMPT suite: interactive tools for ontology merging and mapping
		The Protégé OWL plugin: An open development environment for semantic web applications
		The state of the art in ontology design: A survey and comparative review
	Victor Saquicela	An automatic method for the enrichment of dicom metadata using biomedical ontologies
	Aguado de	
	Cea,	Combining statistical and semantic approaches to the translation
cluster_3	Guadalupe	of ontologies and taxonomies
		Guidelines for multilingual linked data
		The lemon cookbook
		The semantic web: Research and applications
	Alex Nicolau	A configurable simulation environment for the efficient simulation of large-scale spiking neural networks on graphics processors
		Adapting cache line size to application behavior
		Adaptive bitonic sorting: An optimal parallel algorithm for shared-memory machines
		Automatic program parallelization
		Coordinated parallelizing compiler optimizations and high-level synthesis
		Efficient utilization of scratch-pad memory in embedded processor applications
		EXPRESSION: A language for architecture exploration through compiler/simulator retargetability
		Integrated power management for video streaming to mobile handheld devices
		Measuring the parallelism available for very long instruction word architectures
		On-chip vs. off-chip memory: the data partitioning problem in embedded processor-based systems
		Optimal loop parallelization
		Parallel processing: A smart compiler and a dumb machine
		Parallelizing programs with recursive data structures
		Partitioned register files for VLIWs: A preliminary analysis of tradeoffs
		Percolation scheduling: A parallel compilation technique
		Perfect pipelining: A new loop parallelization technique
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	Profile-based dynamic voltage scheduling using program
	checkpoints
	SPARK: A high-level synthesis framework for applying parallelizing compiler transformations
	SPARK: a parallelizing approach to the high-level synthesis of
c	digital circuits
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- U	A scenario-driven approach to trace dependency analysis
	A stakeholder win–win approach to software engineering education
l A	Automated abstraction of class diagrams
	Automating requirements traceability: Beyond the record & parameter amp; eplay paradigm
	Enhancing clone-and-own with systematic reuse for developing software variants
F	Fixing inconsistencies in UML design models
la la	dentifying requirements conflicts and cooperation: How quality
	attributes and automated traceability can help
	Reconciling software requirements and architectures: The cbsp
S	Software requirements negotiation: some lessons learned
	Supporting software understanding with automated requirements raceability
Т	Fraceability fundamentals
	Jsing the WinWin spiral model: a case study
	Changing Focus on Interoperability in Information Systems: From System, Syntax, Structure to Semantics
	Eradication of bovine tuberculosis at a herd-level in Madrid,
S	Spain: study of within-herd transmission dynamics over a 12 year period
F	Evaluation of two cocktails containing ESAT-6, CFP-10 and Rv-3615c in the intradermal test and the interferon-γ assay or diagnosis of bovine tuberculosis
	Evidence of goats acting as domestic reservoirs of bovine uberculosis
e	Experimental infection with Mycobacterium caprae in goats and evaluation of immunological status in tuberculosis and paratuberculosis co-infected animals
	ederated database systems for managing distributed, neterogeneous, and autonomous databases
	Genetic diversity of Mycobacterium avium isolates recovered from
c	clinical samples and from the environment: molecular characterization for diagnostic purposes
H	Humans as source of Mycobacterium tuberculosis infection in cattle, Spain
I h	Molecular epidemiology of multidrug-resistant Mycobacterium povis isolates with the same spoligotyping profile as isolates from animals

avium subsp. paratuberculosis type I, II, and III isolates Semantic and schematic similarities between database objects: a context-based approach SemAnk: ranking complex relationship search results on the semantic web Services mashups: The new generation of web applications So far (schematically) yet so near (semantically) System and method for creating a semantic web and its applications in browsing, searching, profiling, personalization and advertising Wild boar tuberculosis in Iberian Atlantic Spain: a different picture from Mediterranean habitats A Genetic Algorithm Approach to Dynamic Job Shop Scheduling Problem. A mixture model for clustering ensembles A Standard GA Approach to Native Protein Conformation Prediction. Ab initio determination of solid-state nanostructure Adaptive clustering ensembles: Models of consensus and weak partitions Coarse-grain parallel genetic algorithms: Categorization and new approach Combining multiple weak clusterings Dimensionality reduction using genetic algorithms Ensembles of partitions via data resampling Faster genetic programming based on local gradient search of numeric leaf values Further Research on Feature Selection and Classification Using Genetic Algorithms. Genetic algorithms for object recognition in a complex scene How effective are multiple populations in genetic programming liligp 1.01 user####################################	1	
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	Evaluation of DSP-based PID and fuzzy controllers for DC–DC converters
	Exponential stability of impulsive stochastic functional differential
	equations
	Formation and restraint of toxic emissions in hydrogen-gasoline
	mixture fueled engines
	Four cobalt (II) coordination polymers with diverse topologies
	derived from flexible bis (benzimidazole) and aromatic dicarboxylic acids: syntheses, crystal structures and …
	Functional map of biological and biomimetic materials with
	hierarchical surface structures

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	Guided self‐propelled leaping of droplets on a
	micro‐anisotropic superhydrophobic surface Implementation of digital PID controllers for DC-DC converters
	using digital signal processors
	PID controller modifications to improve steady-state performance
	of digital controllers for buck and boost converters
	PWM-based adaptive sliding-mode control for boost DC–DC converters
Lizandro Damian Solano-Quin de	Análisis de rendimiento y profiling del modelo WRF en un clúster HPC
de	Automatic parallelization of GPU applications using OpenCL
	Characterizing artifacts in RR stress test time series
	Coarse grain computation-communication overlap for efficient application-level checkpointing for GPUs
	GPU Acceleration of the Horizontal Diffusion method in the
	Weather Research and Forecasting (WRF) Model  Grid platform for medical federated queries supporting semantic
	and visual annotations
	Infraestructura basada en Globus Toolkit para dar soporte a
	repositorios distribuidos de imágenes médicas
	Minimizing the power consumption in Raspberry Pi to use as a remote WSN gateway
	Mobile teleradiology system suitable for m-health services supporting content and semantic based image retrieval on a grid infrastructure
	Module prototype for online failure prediction for the ibm Blue Gene/L
	Multi-GPU implementation of the Horizontal Diffusion method of the Weather Research and Forecast Model
	RR Stress Test Time Series classification using Neural networks
	Techniques for the parallelization of unstructured grid applications on multi-GPU systems
	Unstructured grid applications on GPU: performance analysis and improvement
	WebMedSA: a web-based framework for segmenting and
	annotating medical images using biomedical ontologies
Luis I.	A model predictive control approach for integrating a master
Minchala	generation unit in a microgrid
	A Review of Optimal Control Techniques Applied to the Energy Management and Control of Microgrids
	An intelligent control approach for designing a low voltage DC breaker
	An open source scada system to implement advanced computer integrated manufacturing
	Comparison of the performance and energy consumption index of model-based controllers

	Design and implementation of a smart meter with demand
	response capabilities
	Fault diagnosis in power lines using Hilbert transform and fuzzy classifier
	Fault identification and classification of spur gearbox with feed
	forward back propagation artificial neural network
	Fault-tolerant control of a master generation unit in an islanded microgrid
	Fault-tolerant control with linear quadratic and model predictive
	control techniques against actuator faults in a quadrotor UAV
	Fault‐tolerant controller design for a master generation
	unit in an isolated hybrid wind‐diesel power system
	Model-based fault-tolerant control to guarantee the performance
	of a hybrid wind-diesel power system in a microgrid configuration
	Nonlinear robust H-Infinity PID controller for the multivariable system quadrotor
	Optimal energy management for stable operation of an islanded microgrid
	Trajectory tracking of a quadrotor using sliding mode control
Maria José	Apolipoprotein E4 genotype increases the risk of postoperative
Carvalho	cognitive dysfunction in patients undergoing coronary artery
Carmona	bypass graft surgery
	Assessment of factors that influence weaning from long-term
	mechanical ventilation after cardiac surgery
	Atelectasis during anesthesia: pathophysiology and treatment
	Cardiopulmonary bypass alters the pharmacokinetics of
	propranolol in patients undergoing cardiac surgery
	Computed tomography assessment of lung structure in patients
	undergoing cardiac surgery with cardiopulmonary bypass
	Effects of Single Low Dose of Dexamethasone before Noncardiac
	and Nonneurologic Surgery and General Anesthesia on
	Postoperative Cognitive Dysfunction—A Phase III Double Blind …
	Hyperkalemia accompanies hemorrhagic shock and correlates with mortality
	, and the second
	Inhaled nitric oxide leading to pulmonary edema in stable severe
	heart failure
	· · · · · · · · · · · · · · · · · · ·
	heart failure
	heart failure L‐Arginine reduces heart rate and improves
	heart failure  L‐Arginine reduces heart rate and improves hemodynamics in severe congestive heart failure  Low doses of inhaled nitric oxide in heart transplant recipients.  Potassium in hemorrhagic shock: a potential marker of tissue
	heart failure  L‐Arginine reduces heart rate and improves hemodynamics in severe congestive heart failure  Low doses of inhaled nitric oxide in heart transplant recipients.  Potassium in hemorrhagic shock: a potential marker of tissue hypoxia
	heart failure  L‐Arginine reduces heart rate and improves hemodynamics in severe congestive heart failure  Low doses of inhaled nitric oxide in heart transplant recipients.  Potassium in hemorrhagic shock: a potential marker of tissue
	heart failure  L‐Arginine reduces heart rate and improves hemodynamics in severe congestive heart failure  Low doses of inhaled nitric oxide in heart transplant recipients.  Potassium in hemorrhagic shock: a potential marker of tissue hypoxia  The effects of positive end-expiratory pressure on respiratory system mechanics and hemodynamics in postoperative cardiac
	heart failure  L‐Arginine reduces heart rate and improves hemodynamics in severe congestive heart failure  Low doses of inhaled nitric oxide in heart transplant recipients.  Potassium in hemorrhagic shock: a potential marker of tissue hypoxia  The effects of positive end-expiratory pressure on respiratory system mechanics and hemodynamics in postoperative cardiac surgery patients

	Ultrasound-guided percutaneous dilational tracheostomy versus bronchoscopy-guided percutaneous dilational tracheostomy in critically ill patients (TRACHUS): a randomized …
Marten van Sinderen	Architecture and specification style in formal descriptions of distributed systems
	Middleware support for quality of context in pervasive context-aware systems
	On the notion of abstract platform in MDA development
	Quality-of-context and its use for protecting privacy in context
	aware systems
	Situations in conceptual modeling of context
	Specification styles in distributed systems design and verification
	Supporting context-aware mobile applications: an infrastructure approach
	Towards an application framework for context-aware m-health applications
	Transparent dynamic reconfiguration for CORBA
Mauricio	
Espinoza Mejía	Combining statistical and semantic approaches to the translation of ontologies and taxonomies
	D5. 4.3. Revision and Extension of the NeOn Methodology for Building Contextualized Ontology Networks
	Discovering the Semantics of User Keywords.
	Enriching electronic program guides using semantic technologies and external resources
	Querying the web: A multiontology disambiguation method
	Acute activation of Maxi-K channels (hSlo) by estradiol binding to the β subunit
	Cell volume regulation and swelling-activated chloride channels
	Differential effects of tamoxifen and I− on three distinguishable chloride currents activated in T84 intestinal cells
	Environmental estrogenic pollutants induce acute vascular relaxation by inhibiting L-type Ca2+ channels in smooth muscle cells
	Gain-of-function mutation in the KCNMB1 potassium channel subunit is associated with low prevalence of diastolic hypertension
	Human CIC-3 is not the swelling-activated chloride channel involved in cell volume regulation
	Human TRPV4 channel splice variants revealed a key role of ankyrin domains in multimerization and trafficking
	IP3 sensitizes TRPV4 channel to the mechano-and osmotransducing messenger 5′-6′-epoxyeicosatrienoic acid
	Maxi K+ channel mediates regulatory volume decrease response in a human bronchial epithelial cell line

	Protein kinase C‐mediated phosphorylation of the human
	multidrug resistance P‐glycoprotein regulates cell
	volume‐activated chloride channels.
	RCAN1 (DSCR1) increases neuronal susceptibility to oxidative
	stress: a potential pathogenic process in neurodegeneration
	Separation of drug transport and chloride channel functions of the
	human multidrug resistance P-glycoprotein
	Swelling-activated Ca2+ entry via TRPV4 channel is defective in
	cystic fibrosis airway epithelia
	Tamoxifen blocks chloride channels. A possible mechanism for
	cataract formation.
	The asthma-associated ORMDL3 gene product regulates
	endoplasmic reticulum-mediated calcium signaling and cellular
	stress
	The estrogen trinity: membrane, cytosolic, and nuclear effects
	TRPV4 channel is involved in the coupling of fluid viscosity changes to epithelial ciliary activity
	TRPV4 channel participates in receptor-operated calcium entry
	and ciliary beat frequency regulation in mouse airway epithelial
	cells
	Volume-activated chloride channels in HeLa cells are blocked by
	verapamil and dideoxyforskolin
	Volume-regulated chloride channels associated with the human
	multidrug-resistance P-glycoprotein
Miguel Angel	
Zuñiga	Multi-GPU implementation of the Horizontal Diffusion method of
Prieto	the Weather Research and Forecast Model
	Observation of a Centrality-Dependent Dijet Asymmetry in
	Lead-Lead Collisions at with the ATLAS Detector at the LHC
Natasha Noy	Creating semantic web contents with protege-2000
	The evolution of Protégé: an environment for knowledge-based
	systems development
	The knowledge model of Protege-2000: Combining
	interoperability and flexibility
	A Model-driven Method and a Tool for Developing Gesture-based
González	Information Systems Interface
	A model-driven method for gesture-based interface requirements
	specification.
	An empirical comparative evaluation of gestUl to include
	gesture-based interaction in user interfaces
	Extending and validating gestUI using technical action research
	gestUl tool: A Tool to Include Gesture-based Interaction in User
	Interfaces Through Model-Driven
	GestUI: A Model-driven Method and Tool for Including Gesture-based Interaction in User Interfaces
	Including multi-stroke gesture-based interaction in user interfaces using a model-driven method
	Tailoring User Interfaces to Include Gesture-Based Interaction
	with gestUI
	With gestor

	A systematic literature review on devices and systems for
Priscila	ambient assisted living: Solutions and trends from different user
Cedillo	perspectives
Ocamo	
	A systematic mapping study for intelligent user interfaces-iui  Definición de Mecanismos Personalizados de Monitorización de
	Servicios Cloud
	Evaluating the usability of mashups applications
	Intelligent pillbox: Automatic and programmable Assistive Technology device
	MOOCEP, un método para construir cursos masivos para adultos mayores: usando una creación MOOCEP
	MOOCEP: A Method for Building Massive Open Online Courses for Elderly People The Analysis Activity
	MOOCEP: Towards a method for building massive open online courses for elderly people
Victor	Quality of web mashups: a systematic mapping study  Design of an integrated decision support system for library holistic
Saquicela	evaluation
	Detecting similar areas of knowledge using semantic and data mining technologies
	Enriching electronic program guides using semantic technologies
	and external resources
	Geographical linked data: a Spanish use case
	GeoLinked data and INSPIRE through an application case
	Integration of digital repositories through federated queries using semantic technologies
	Interlinking geospatial information in the web of data
	Literature review of data mining applications in academic libraries
	Rdf-ization of dicom medical images towards linked health data cloud
Yaskelly Yedra	DE LA BRECHA SOCIAL A LA BRECHA TECNOLÓGICA Y COGNITIVA
	A magnetically separable photocatalyst based on nest-like γ-Fe 2 O 3/ZnO double-shelled hollow structures with
Yong Hu	enhanced photocatalytic activity
	A microwave-assisted rapid route to synthesize ZnO/ZnS
	core–shell nanostructures via controllable surface sulfidation of ZnO nanorods
	Assembling carbon-coated α-Fe 2 O 3 hollow nanohorns on the CNT backbone for superior lithium storage capability
	Carbon‐Coated CdS Petalous Nanostructures with Enhanced Photostability and Photocatalytic Activity
	Coating colloidal carbon spheres with CdS nanoparticles:
	microwave-assisted synthesis and enhanced photocatalytic activity
	Construction of hierarchical Ni–Co–P hollow nanobricks with oriented nanosheets for efficient overall water splitting

Egg (
Effects of nano-TiO2 on photosynthetic characteristics of Ulmus elongata seedlings
Facile Formation of Mesoporous BiVO4/Ag/AgCl Heterostructured Microspheres with Enhanced Visible-Light Photoactivity
Facile one-pot synthesis of uniform TiO 2–Ag hybrid hollow spheres with enhanced photocatalytic activity
Facile one-step microwave-assisted route towards Ni nanospheres/reduced graphene oxide hybrids for non-enzymatic glucose sensing
Facile synthesis of Z-scheme Ag 2 CO 3/Ag/AgBr ternary heterostructured nanorods with improved photostability and photoactivity
Formation of Mesoporous Heterostructured BiVO4/Bi2S3 Hollow Discoids with Enhanced Photoactivity
Magnetic-field induced formation of 1D Fe 3 O 4/C/CdS coaxial nanochains as highly efficient and reusable photocatalysts for water treatment
Microwave-assisted non-aqueous route to deposit well-dispersed ZnO nanocrystals on reduced graphene oxide sheets with improved photoactivity for the decolorization of dyes …
Microwave-assisted synthesis of porous CdO–CdS core–shell nanoboxes with enhanced visible-light-driven photocatalytic reduction of Cr (VI)
Microwave‐Assisted Synthesis of Porous Ag2S–Ag Hybrid Nanotubes with High Visible‐Light Photocatalytic Activity
One‐Pot Magnetic Field Induced Formation of Fe3O4/C Composite Microrods with Enhanced Lithium Storage Capability
Seed-mediated synthesis of NaY F4: Y b, Er/NaGdF4 nanocrystals with improved upconversion fluorescence and MR relaxivity
Synthesis of novel nickel sulfide submicrometer hollow spheres
Uniform hamburger-like mesoporous carbon-incorporated ZnO nanoarchitectures: One-pot solvothermal synthesis, high adsorption and visible-light photocatalytic decolorization of dyes

## TABLA DINÁMICA AÑO VS AUTOR VS CLUSTER

Explicación: Esta tabla busca representar el año y el/los autor/es que tienen investigaciones clasificados como los distintos clusters.

Cluster	Año	Autor
cluster_0	1985	Don Batory
	1992	Don Batory
	1993	Amit Sheth
	1997	Juan Pablo Carvallo
		Natasha Noy
	1999	Natasha Noy
	2000	Frank van Harmelen
		Natasha Noy

2001	Alexander Egyed
2001	Frank van Harmelen
	Jim Hendler
2000	Natasha Noy
	Natasha Noy
2003	Alexander Egyed
	Frank van Harmelen
	Juan Pablo Carvallo
200	Natasha Noy
2004	Alexander Egyed
	Amit Sheth
	Frank van Harmelen
	Jim Hendler
	Lizandro Damian Solano-Quinde
	Marten van Sinderen
	Natasha Noy
2005	Amit Sheth
	Don Batory
	Jim Hendler
2006	Alexander Egyed
	Don Batory
	Juan Pablo Carvallo
	Natasha Noy
2007	Aguado de Cea, Guadalupe
	Mauricio Espinoza Mejía
	Natasha Noy
2008	Aguado de Cea, Guadalupe
	Alexander Egyed
	Frank van Harmelen
	Mauricio Espinoza Mejía
2009	Don Batory
	Mauricio Espinoza Mejía
	Natasha Noy
2010	Alexander Egyed
	Amit Sheth
	Juan Pablo Carvallo
	Marten van Sinderen
	Mauricio Espinoza Mejía
2011	Aguado de Cea, Guadalupe
	Juan Pablo Carvallo
	Natasha Noy
	Otto Parra González
	Zhenjiang Hu

	2012	Aguado do Coa, Guadaluno
	2012	Aguado de Cea, Guadalupe
		Dario Rodriguez  Marten van Sinderen
	2044	Mauricio Espinoza Mejía
	2014	Juan Pablo Carvallo
		Marten van Sinderen
		Otto Parra González
	001=	Zhenjiang Hu
	2015	Marten van Sinderen
		Otto Parra González
		Victor Saquicela
	2016	Juan Pablo Carvallo
		Marten van Sinderen
		Mauricio Espinoza Mejía
		Otto Parra González
		Victor Saquicela
	2017	Otto Parra González
		Zhenjiang Hu
	2018	Zhenjiang Hu
	2019	Otto Parra González
cluster_1		Mauricio Espinoza Mejía
	1985	Liping Guo
	1988	Angel de Castro
		Don Batory
		Don Batory
		Don Batory Marten van Sinderen
	1990	Don Batory Marten van Sinderen Alex Nicolau
	1990	Don Batory Marten van Sinderen Alex Nicolau Jim Hendler
	1990	Don Batory Marten van Sinderen Alex Nicolau Jim Hendler Marten van Sinderen
	1990	Don Batory  Marten van Sinderen  Alex Nicolau  Jim Hendler  Marten van Sinderen  Amit Sheth
	1990	Don Batory Marten van Sinderen Alex Nicolau Jim Hendler Marten van Sinderen Amit Sheth Bill Punch
	1990 1991 1993	Don Batory  Marten van Sinderen  Alex Nicolau  Jim Hendler  Marten van Sinderen  Amit Sheth  Bill Punch  Don Batory
	1990 1991 1993	Don Batory  Marten van Sinderen Alex Nicolau Jim Hendler Marten van Sinderen Amit Sheth Bill Punch Don Batory Frank van Harmelen
	1990 1991 1993 1994	Don Batory  Marten van Sinderen  Alex Nicolau  Jim Hendler  Marten van Sinderen  Amit Sheth  Bill Punch  Don Batory  Frank van Harmelen  Angel de Castro
	1990 1991 1993 1994	Don Batory  Marten van Sinderen  Alex Nicolau  Jim Hendler  Marten van Sinderen  Amit Sheth  Bill Punch  Don Batory  Frank van Harmelen  Angel de Castro  Don Batory
	1990 1991 1993 1994 1995	Don Batory  Marten van Sinderen  Alex Nicolau  Jim Hendler  Marten van Sinderen  Amit Sheth  Bill Punch  Don Batory  Frank van Harmelen  Angel de Castro  Don Batory  Alex Nicolau
	1990 1991 1993 1994 1995	Don Batory  Marten van Sinderen  Alex Nicolau  Jim Hendler  Marten van Sinderen  Amit Sheth  Bill Punch  Don Batory  Frank van Harmelen  Angel de Castro  Don Batory  Alex Nicolau  Jim Hendler
	1990 1991 1993 1994 1995	Don Batory  Marten van Sinderen  Alex Nicolau  Jim Hendler  Marten van Sinderen  Amit Sheth  Bill Punch  Don Batory  Frank van Harmelen  Angel de Castro  Don Batory  Alex Nicolau  Jim Hendler  Alex Nicolau
	1990 1991 1993 1994 1995	Don Batory  Marten van Sinderen  Alex Nicolau  Jim Hendler  Marten van Sinderen  Amit Sheth  Bill Punch  Don Batory  Frank van Harmelen  Angel de Castro  Don Batory  Alex Nicolau  Jim Hendler  Alex Nicolau  Jim Hendler
	1990 1991 1993 1994 1995	Don Batory  Marten van Sinderen  Alex Nicolau  Jim Hendler  Marten van Sinderen  Amit Sheth  Bill Punch  Don Batory  Frank van Harmelen  Angel de Castro  Don Batory  Alex Nicolau  Jim Hendler  Alex Nicolau  Jim Hendler  Dario Rodriguez
	1990 1991 1993 1994 1995	Don Batory  Marten van Sinderen  Alex Nicolau  Jim Hendler  Marten van Sinderen  Amit Sheth  Bill Punch  Don Batory  Frank van Harmelen  Angel de Castro  Don Batory  Alex Nicolau  Jim Hendler  Alex Nicolau  Jim Hendler  Dario Rodriguez  Don Batory
	1990 1991 1993 1994 1995	Don Batory  Marten van Sinderen  Alex Nicolau  Jim Hendler  Marten van Sinderen  Amit Sheth  Bill Punch  Don Batory  Frank van Harmelen  Angel de Castro  Don Batory  Alex Nicolau  Jim Hendler  Alex Nicolau  Jim Hendler  Dario Rodriguez  Don Batory  Jeannette E. Riley  Luis I. Minchala
	1990 1991 1993 1994 1995 1996	Don Batory  Marten van Sinderen  Alex Nicolau  Jim Hendler  Marten van Sinderen  Amit Sheth  Bill Punch  Don Batory  Frank van Harmelen  Angel de Castro  Don Batory  Alex Nicolau  Jim Hendler  Alex Nicolau  Jim Hendler  Dario Rodriguez  Don Batory  Jeannette E. Riley

	A '' OL II
	Amit Sheth
	Angel de Castro
	Don Batory
	Liping Guo
	Zhenjiang Hu
2000	Alex Nicolau
	Bill Punch
	Frank van Harmelen
	Jim Hendler
2001	Alex Nicolau
	Alexander Egyed
	Amit Sheth
	Bill Punch
	Don Batory
	Jim Hendler
	Lizandro Damian
	Solano-Quinde
	Natasha Noy
2002	Alex Nicolau
	Alexander Egyed
	Angel de Castro
	Don Batory
	Frank van Harmelen
	Zhenjiang Hu
2003	Alex Nicolau
	Alexander Egyed
	Angel de Castro
	Bill Punch
	Dario Rodriguez
	Frank van Harmelen
	Jeannette E. Riley
	Jim Hendler
	Juan Pablo Carvallo
	Luis I. Minchala
	Zhenjiang Hu
2004	Alex Nicolau
	Alexander Egyed
	Angel de Castro
	Bill Punch
	Dario Rodriguez
	Don Batory
	Frank van Harmelen
	Jeannette E. Riley
	Liping Guo
	p.i.ig

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2005	Aguado de Cea, Guadalupe
	Alex Nicolau
	Alexander Egyed
	Amit Sheth
	Jeannette E. Riley
	Liping Guo
	Lizandro Damian
0000	Solano-Quinde
2006	Alex Nicolau
	Angel de Castro
	Dario Rodriguez
	Don Batory
	Jim Hendler
	Juan Pablo Carvallo
	Mauricio Espinoza Mejía
	Zhenjiang Hu
2007	Alexander Egyed
	Angel de Castro
	Don Batory
	Jeannette E. Riley
	Lizandro Damian
	Solano-Quinde
	Luis I. Minchala
	Marten van Sinderen
	Zhenjiang Hu
2008	Alex Nicolau
	Amit Sheth
	Angel de Castro
	Bill Punch
	Jim Hendler
	Lizandro Damian
0000	Solano-Quinde
2009	Angel de Castro
	Bill Punch
	Dario Rodriguez
	Jeannette E. Riley
	Luis I. Minchala
	Marten van Sinderen
2010	Aguado de Cea, Guadalupe
	Dario Rodriguez
	Jeannette E. Riley
	Lizandro Damian
	Solano-Quinde
	Marten van Sinderen
	Victor Saquicela

20	)11	Aguado de Cea, Guadalupe
		Dario Rodriguez
		Lizandro Damian
		Solano-Quinde
		Marten van Sinderen
		Mauricio Espinoza Mejía
20	12	Alexander Egyed
		Dario Rodriguez
		Juan Pablo Carvallo
		Lizandro Damian
		Solano-Quinde
		Marten van Sinderen
		Priscila Cedillo
		Victor Saquicela
		Zhenjiang Hu
20	13	Aguado de Cea, Guadalupe
		Lizandro Damian
		Solano-Quinde
		Priscila Cedillo
		Zhenjiang Hu
20	14	Jeannette E. Riley
		Juan Pablo Carvallo
		Liping Guo
		Lizandro Damian
		Solano-Quinde
		Mauricio Espinoza Mejía
		Victor Saquicela
		Zhenjiang Hu
20	15	Alexander Egyed
		Amit Sheth
		Dario Rodriguez
		Juan Pablo Carvallo
		Lizandro Damian
		Solano-Quinde
		miguel angel zuñiga prieto
		Victor Saquicela
		Zhenjiang Hu
20	16	Don Batory
		Jeannette E. Riley
		Liping Guo
		Lizandro Damian
		Solano-Quinde
		miguel angel zuñiga prieto
		Victor Saquicela
		Yaskelly Yedra

		Zhenjiang Hu
	2017	Jeannette E. Riley
		Juan Pablo Carvallo
		Liping Guo
		miguel angel zuñiga prieto
		Priscila Cedillo
		Zhenjiang Hu
	2018	Priscila Cedillo
		Zhenjiang Hu
	2019	Jeannette E. Riley
		Liping Guo
cluster_2	1991	Amit Sheth
	2001	Amit Sheth
	2003	Amit Sheth
		Jim Hendler
	2004	Jim Hendler
		Lizandro Damian
		Solano-Quinde
		Amit Sheth
		Mauricio Espinoza Mejía
	2010	Marten van Sinderen
		Victor Saquicela
		Victor Saquicela
	2012	Amit Sheth
		Victor Saquicela
	2014	Marten van Sinderen
		miguel angel zuñiga prieto
		Priscila Cedillo
	2015	Marten van Sinderen
		miguel angel zuñiga prieto
		Priscila Cedillo
	2016	Marten van Sinderen
		miguel angel zuñiga prieto
		Priscila Cedillo
	2017	miguel angel zuñiga prieto
cluster_3	1992	Liping Guo
	1993	Angel de Castro
	1997	Angel de Castro
	2001	Angel de Castro
	2004	Luis I. Minchala
	2005	Luis I. Minchala
	2006	Alex Nicolau
		Angel de Castro
	2007	Luis I. Minchala

2009	Liping Guo
2010	Luis I. Minchala
2011	Liping Guo
	Luis I. Minchala
2012	Luis I. Minchala
2014	Luis I. Minchala
2015	Liping Guo
	Luis I. Minchala
2016	Luis I. Minchala