

PROYECTO SISTEMAS BASADOS EN CONICIMIENTO

Proyecto del primer bimestre

Nombre: Carlos Xavier Hidalgo Paredes

Fecha: 26/05/2021

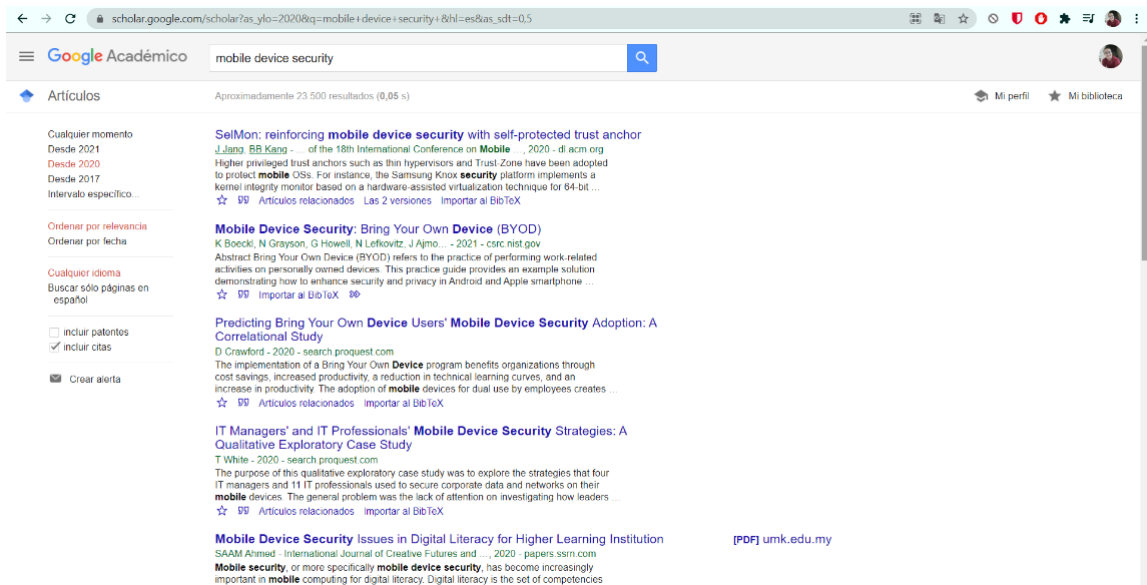
Dominio de trabajo:

Artículos científicos sobre Mobile Device Security

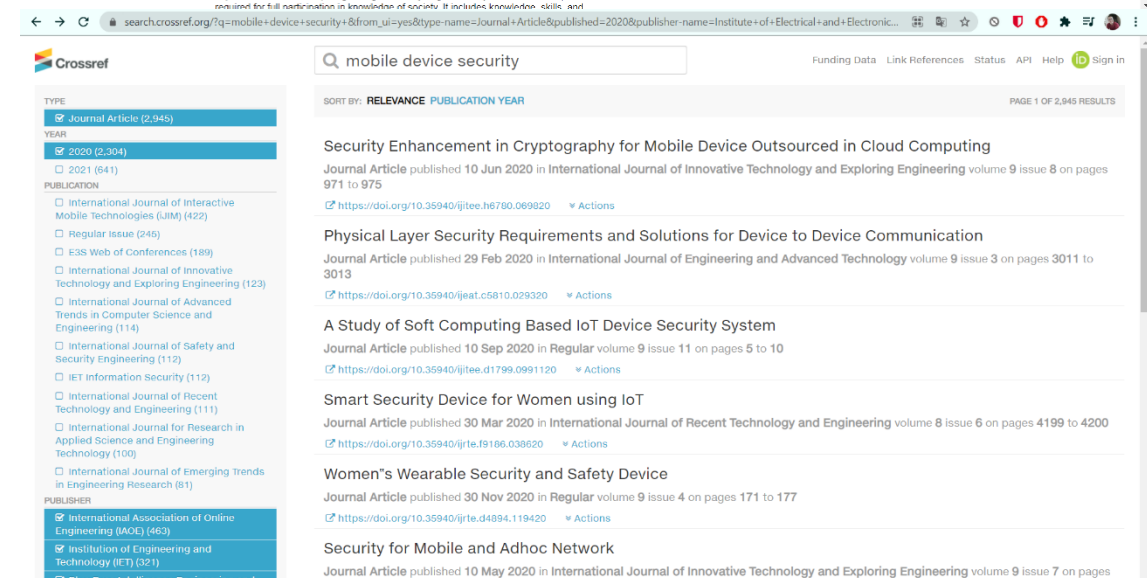
Fuentes de datos de dominio con las que se trabajara

- Artículos científicos sobre Seguridad en los dispositivos móviles

En cuanto a los recursos de donde se va a extraer la data será de la página de **Google Academic, Crosref**, obteniendo datos sobre los artículos científicos en el área de las ciencias de Mobile Device Security, obteniendo título, autores, número de páginas, resumen, autores, fecha de publicación, tipo de documento, entre otros; la búsqueda se hará de todas las regiones y países con respecto al 2020 y 2021.



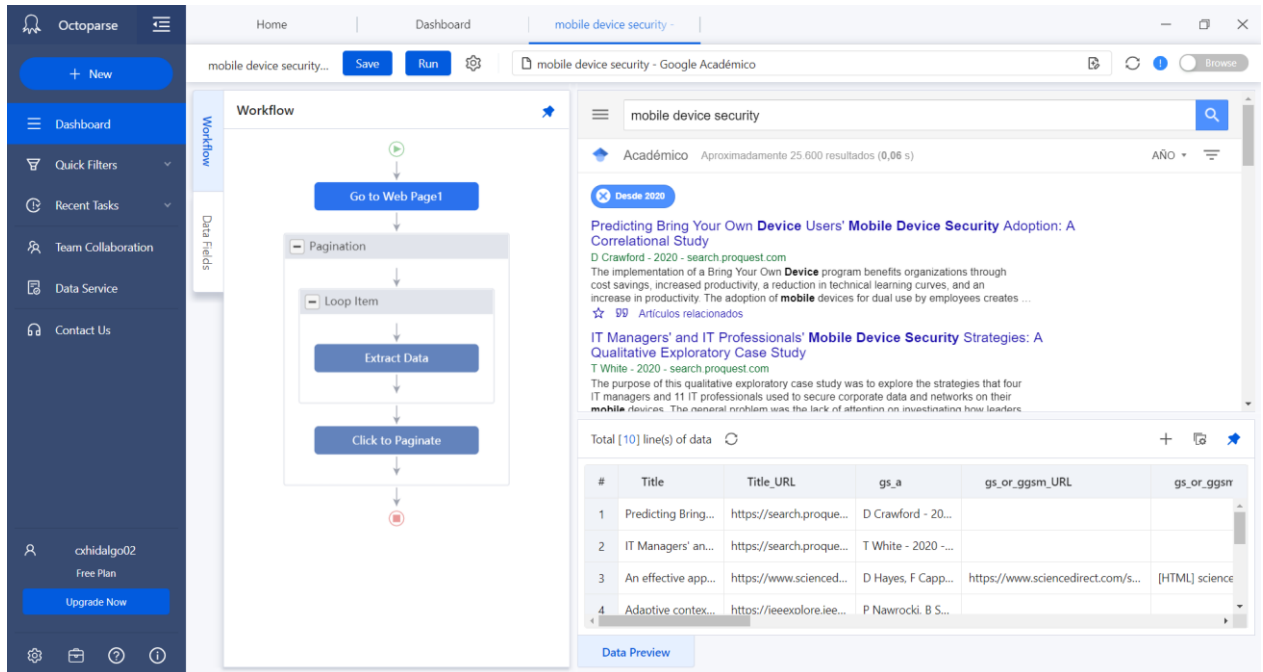
The screenshot shows the Google Scholar search results for 'mobile device security'. The search bar at the top shows the query 'mobile device security' with approximately 23,500 results. The results list several articles, including 'SelfMon: reinforcing mobile device security with self-protected trust anchor' by J. Jang and B. Kang, 'Mobile Device Security: Bring Your Own Device (BYOD)' by K. Boeck, N. Grayson, G. Howell, N. Lefkowitz, and J. Almo, and 'Predicting Bring Your Own Device Users' Mobile Device Security Adoption: A Correlational Study' by D. Crawford.



The screenshot shows the Crossref search results for 'mobile device security'. The search bar at the top shows the query 'mobile device security' with 2,945 results. The results list several journal articles, including 'Security Enhancement in Cryptography for Mobile Device Outsourced in Cloud Computing' by Journal Article published 10 Jun 2020, 'Physical Layer Security Requirements and Solutions for Device to Device Communication' by Journal Article published 29 Feb 2020, 'A Study of Soft Computing Based IoT Device Security System' by Journal Article published 10 Sep 2020, 'Smart Security Device for Women using IoT' by Journal Article published 30 Mar 2020, 'Women's Wearable Security and Safety Device' by Journal Article published 30 Nov 2020, and 'Security for Mobile and Adhoc Network' by Journal Article published 10 May 2020.

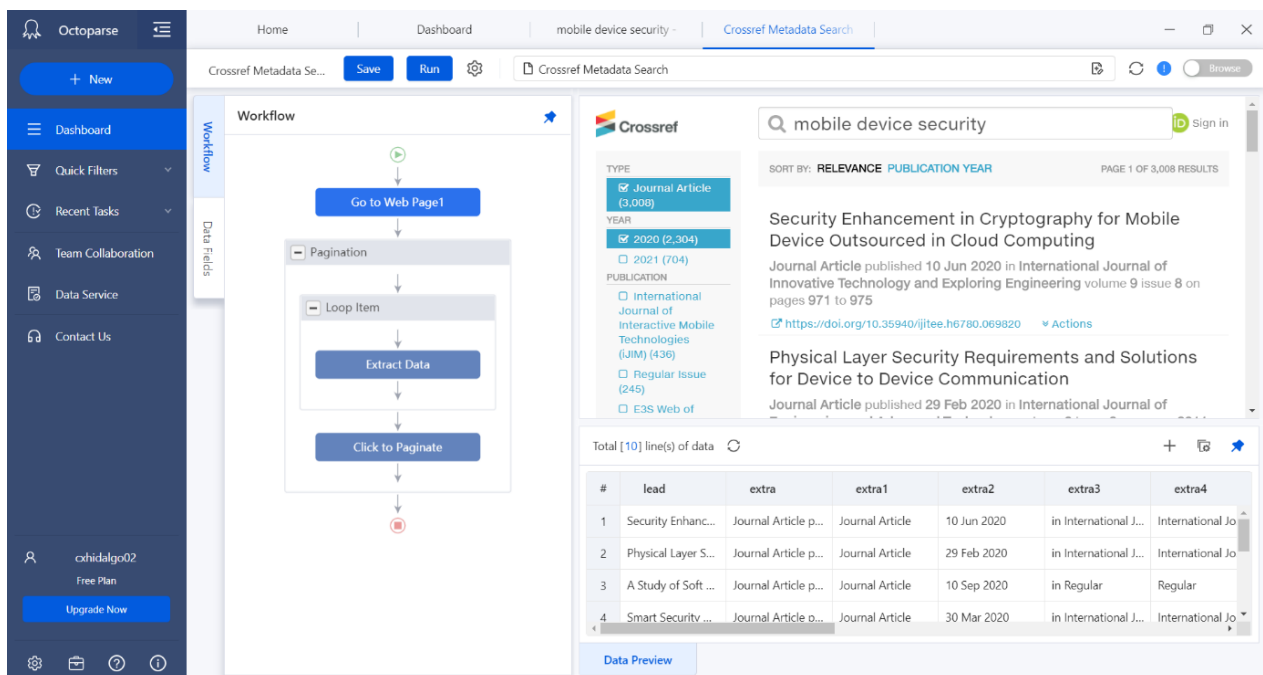
Método o Herramienta para extracción de datos

El método de extracción se hará scrapy a las páginas de **Google Academic**, **Crossef** y **Scimago**, con **Octoparse (Octopus Data)**; es una herramienta que permite realizar scrapy de forma masiva solo se ingresa el Url y se hace los filtros, una vez echo eso permite extraer la información del sitio web. Es una herramienta que permite extraer datos de una web, direcciones Ip, direcciones Ip de correo electrónico, precios, número de teléfonos móviles, extracto de imágenes, resumen y publicación de datos sobre casi cualquier sitio web y te permitirá guardarlos como datos estructurados limpios en tu formato de elección.



The screenshot shows the Octoparse interface with a workflow for extracting data from Google Academic. The workflow includes steps: Go to Web Page1, Pagination, Loop Item (containing Extract Data and Click to Paginate), and Click to Paginate. The right panel displays search results for "mobile device security" on Google Academic, showing a list of articles and a table of extracted data.

#	Title	Title_URL	gs_a	gs_or_ggsm_URL	gs_or_ggsm
1	Predicting Bring...	https://search.proque...	D Crawford - 20...		
2	IT Managers' an...	https://search.proque...	T White - 2020 ~...		
3	An effective app...	https://www.scienced...	D Hayes, F Capp...	https://www.sciencedirect.com/s...	[HTML] science
4	Adaptive contex...	https://ieeexplore.iee...	P Nawrocki, B S...		



The screenshot shows the Octoparse interface with a workflow for extracting data from Crossref Metadata Search. The workflow includes steps: Go to Web Page1, Pagination, Loop Item (containing Extract Data and Click to Paginate), and Click to Paginate. The right panel displays search results for "mobile device security" on Crossref, showing a list of articles and a table of extracted data.

#	lead	extra	extra1	extra2	extra3	extra4
1	Security Enhanc...	Journal Article p...	Journal Article	10 Jun 2020	in International J...	International Jo
2	Physical Layer S...	Journal Article p...	Journal Article	29 Feb 2020	in International J...	International Jo
3	A Study of Soft ...	Journal Article p...	Journal Article	10 Sep 2020	in Regular	Regular
4	Smart Security ...	Journal Article p...	Journal Article	30 Mar 2020	in International J...	International Jo

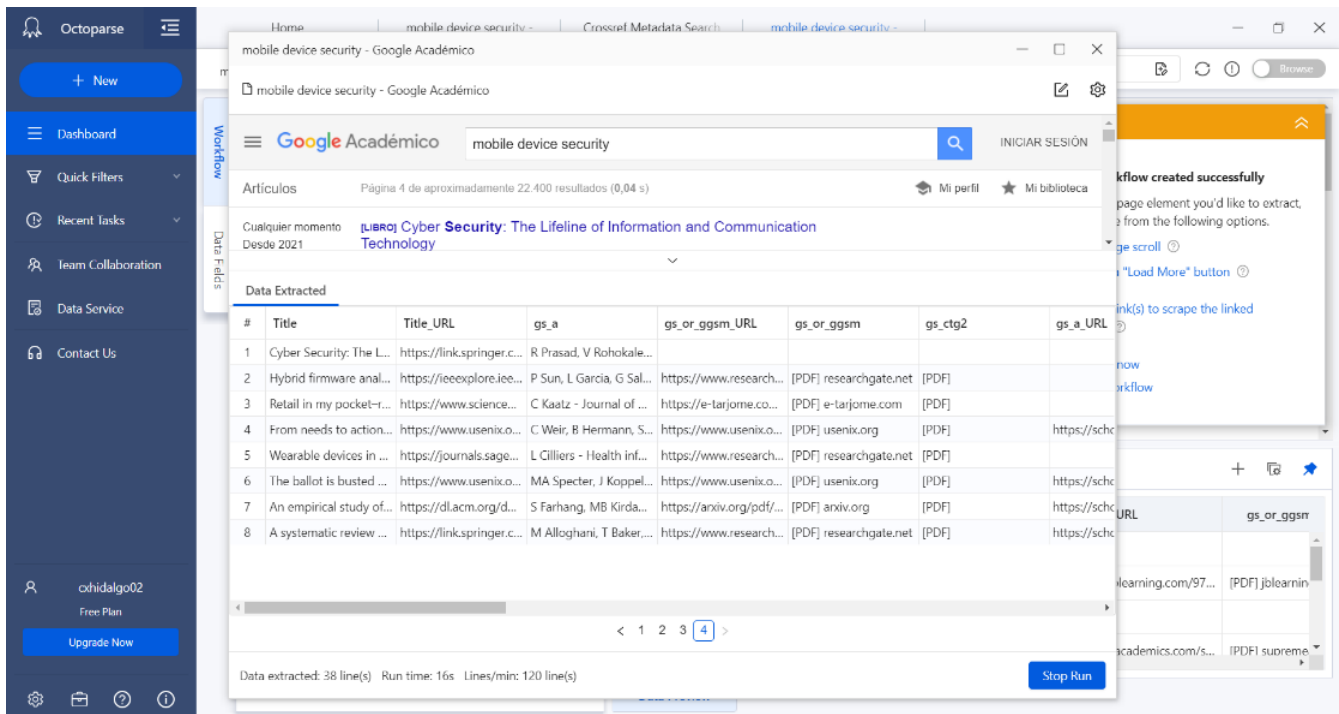
DATOS DESCARGADOS

Google Academic / 2020 – 2021

En Google academic se realizó la búsqueda de Artículos Científicos sobre Mobile Device security, ordenados, entre el 2020 y el 2021, dándonos como resultados aproximadamente 23.500 resultados (0,05 s)

Url:

https://scholar.google.com/scholar?as_ylo=2020&q=mobile+device+security+&hl=es&as_sd



mobile device security - Google Académico

mobile device security - Google Académico

Google Académico mobile device security

Artículos Página 4 de aproximadamente 22.400 resultados (0,04 s)

Cualquier momento Desde 2021 **LIBRO Cyber Security: The Lifeline of Information and Communication Technology**

Data Extracted

#	Title	Title_URL	gs_a	gs_or_ggsm_URL	gs_or_ggsm	gs_ctg2	gs_a_URL
1	Cyber Security: The L...	https://links.springer.c...	R Prasad, V Rohokale...				
2	Hybrid firmware anal...	https://ieeexplore.iee...	P Sun, L Garcia, G Sal...	https://www.research...	[PDF] researchgate.net	[PDF]	
3	Retail in my pocket-r...	https://www.science...	C Kaatz - Journal of ...	https://e-tarjome.co...	[PDF] e-tarjome.com	[PDF]	
4	From needs to action...	https://www.usenix.o...	C Weir, B Hermann, S...	https://www.usenix.o...	[PDF] usenix.org	[PDF]	https://sche
5	Wearable devices in ...	https://journals.sage...	L Cilliers - Health inf...	https://www.research...	[PDF] researchgate.net	[PDF]	
6	The ballot is busted ...	https://www.usenix.o...	MA Specter, J Koppel...	https://www.usenix.o...	[PDF] usenix.org	[PDF]	https://sche
7	An empirical study of...	https://dl.acm.org/d...	S Farhang, MB Kirda...	https://arxiv.org/pdf/...	[PDF] arxiv.org	[PDF]	https://sche
8	A systematic review ...	https://links.springer.c...	M Alloghani, T Baker...	https://www.research...	[PDF] researchgate.net	[PDF]	https://sche

Data extracted: 38 line(s) Run time: 16s Lines/min: 120 line(s)

Stop Run

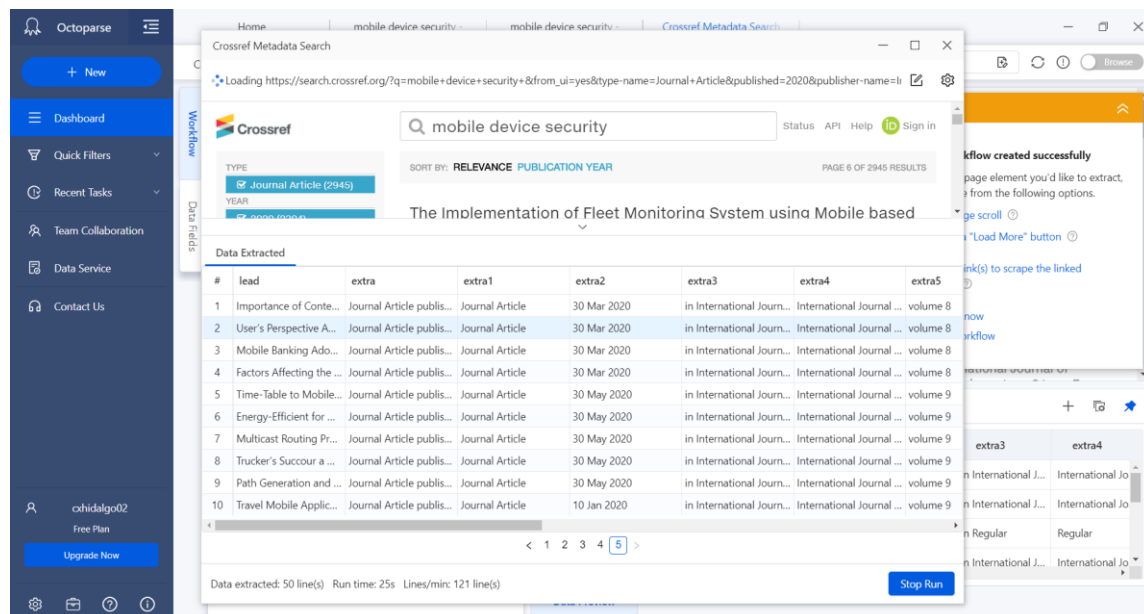
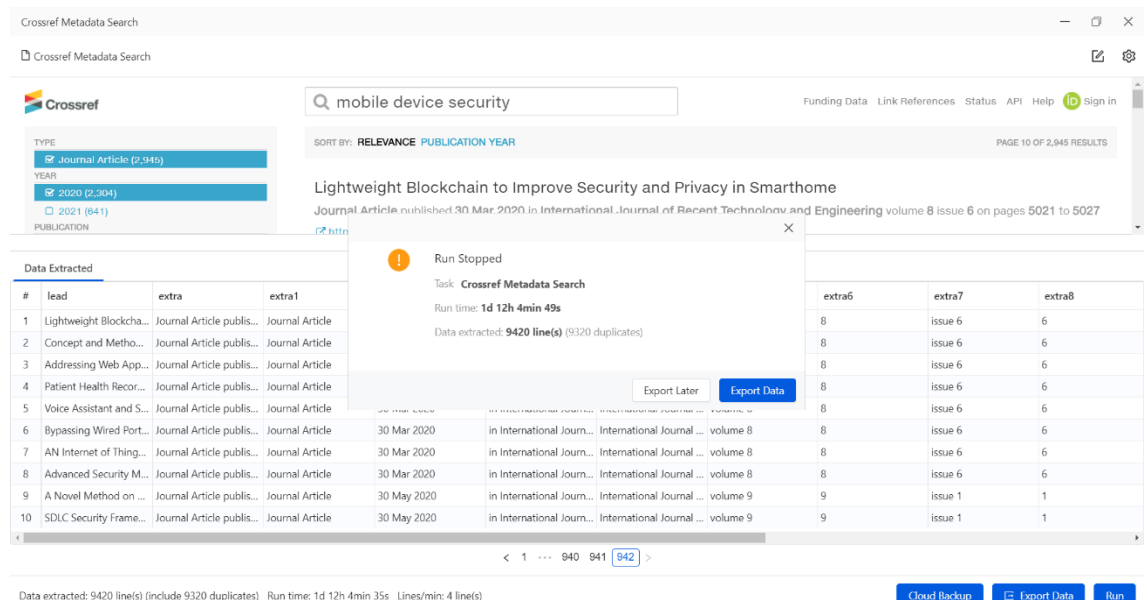
t=0,5

ARCHIVO INICIO INSERTAR DISEÑO DE PÁGINA FÓRMULAS DATOS REVISAR VISTA										Cuenta Microsoft	
<div>Cortar</div> <div>Copiar</div> <div>Pegar</div> <div>Copiar formato</div> <div>Portapapeles</div>		<div>Calibri</div> <div>12</div> <div>A</div> <div>A</div> <div>N</div> <div>K</div> <div>S</div> <div>X</div> <div>B</div> <div>I</div> <div>U</div> <div>L</div> <div>Color</div> <div>Texto</div>		<div>Ajustar texto</div> <div>General</div> <div>Formato condicional</div> <div>Dar formato como tabla</div>		<div>Normal</div> <div>Buena</div> <div>Incorrecto</div> <div>Neutral</div> <div>Estilos</div>		<div>Insertar</div> <div>Eliminar</div> <div>Formato</div> <div>Autosuma</div> <div>Rellenar</div> <div>Borrar</div> <div>Ordenar y filtrar</div> <div>Buscar y seleccionar</div> <div>Modificar</div>			
E81											
A B C D E F G H I J K											
1 Title Title URL gs_a gs_or_gsgsm gs_or_gsgsm gs_ctg2 gs_a_URL gs_a1 gs_rs gs_fl_URL gs_fl											
2 SelMon: reinforcing mobile devthttps://dl.acm.org/doi/abs/10.1145/3386901.3381 J ang, BB Kang - ... of the 18th Interna https://schol Articlu											
3 Mobile Device Security: Bring Ychttps://csrc.nist.gov/publications/detail/sp/1800-K Boeckl, N Grayson, G Howell, N Lefk javascript:voi											
4 Predicting Bring Your Own Devthttps://search.proquest.com/openview/8f2cedba D Crawford - 2020 - search.proquest.c https://schol Articlu											
5 IT Managers' and IT Professionahttps://search.proquest.com/openview/0124fe0e T White - 2020 - search.proquest.com https://schol Articlu											
6 Mobile Device Security Issues inhttps://papers.ssrn.com/sol3/papers.cfm?abstrac SAAM Ahmed - International Journal c http://ir.umk [PDF] umk.ed [PDF] https://schol Articlu											
7 An effective approach to mobilithttps://www.sciencedirect.com/science/article/pii D Hayes, F Cappa, NA Le-Khac - Digital https://www [HTML] scien [HTML] https://schol Citado											
8 Mobile device cyber security https://link.springer.com/chapter/10.1007/978-3 R Prasad, V Rohokale - Cyber Security: Mobile https://schol NA Le-Khac Mobile https://schol Citado											
9 Adaptive context-aware engine https://ieeexplore.ieee.org/abstract/document/9 P Nawrocki, B Sniezynski, J Kolodziej security https://schol J Kolodziej security https://schol Citado											
10 Analyzing IoT users' mobile devthttps://www.sciencedirect.com/science/article/pii P Menard, GJ Bott - Computers & Secu https://schol M Guerroun device's https://schol Citado											
11 Two-factor mutual authenticathttps://ieeexplore.ieee.org/abstract/document/8 A Derhab, M Belaoued, M Guerrouni, https://ieeex [PDF] iee.or. [PDF] https://schol MS Islam security javascript:voi											
12 Secure Mobile Application Devehttps://digitalcommons.kennesaw.edu/ccerp/202 H Shahriar, C Zhang, ABMK ISLAM RIAE https://sampl [PDF] jblearn [PDF] https://schol Citado											
13 Employees' Cybersecurity Behavhttps://ieeexplore.ieee.org/abstract/document/9 SF Verkijika - 2020 2nd International n device https://schol Las 2 ve											
14 Zoom security issues: Here's evehttps://supremeacademics.com/samples/Informa P Wagenseil - Tom's Guide, 2020 - sup https://supre [PDF] supren [PDF] Security https://schol Citado											
15 Real-time task scheduling and nhttps://www.sciencedirect.com/science/article/pii J Zhou - Microprocessors and Microsys device https://schol Citado											
16 Survey on Security Issues in Molhttps://link.springer.com/chapter/10.1007/978-9 R Neware, K Ulabhajje, G Karemore... - https://www [PDF] preprin [PDF] Security https://schol Citado											
17 Recent advances delivered in mhttps://www.igi-global.com/chapter/recent-advar C Ntergiou, KE Pannis - .. practices, ar https://ruom [PDF] uom.gr [PDF] security https://schol Citado											
18 Intelligent resource allocation ir https://scis.scichina.com/en/2021/162303.pdf Z Ning, S Sun, X Wang, L Guo, GY Wan http://scis.sc [PDF] scichin: [PDF] mobile https://schol Citado											
19 Mobile Cloud Computing: Archi https://dl.acm.org/doi/abs/10.1145/3386723.338 F Hellah, C Mezioud, MC Batouche - device https://schol Articlu											
20 Security and privacy attacks dur https://www.sciencedirect.com/science/article/pii V Moorthy, R Venkataraman, TR Rao device https://schol Citado											
21 FEATHER: A proposed lightweigh http://www.etasr.com/index.php/ETASR/article/vA Alamer, B Soh - Engineering, Techno https://www [PDF] etasr.c [PDF] security https://schol Articlu											
22 Slow-movement particle swarm https://www.sciencedirect.com/science/article/pii Y Zhang, Y Liu, J Zhou, J Sun, K Li - Futu https://www.c [PDF] newpal [PDF] device https://schol Citado											
23 Security analysis of IoT devices https://ieeexplore.ieee.org/abstract/document/9 B Liao, Y Ali, S Nazir, L He, HU Khan - I https://ieeex [PDF] iee.or. [PDF] security https://schol Citado											
24 User authentication on mobile https://www.sciencedirect.com/science/article/pii F Wang, Y Wang, Y Chen, H Liu, J Liu - https://www [PDF] science [PDF] device https://schol Citado											
25 IoT Device security through dyn https://www.sciencedirect.com/science/article/pii F Hategekimana, TIL Whitaker, MJH Pa https://schol Citado											
26 Effects of the design of mobile sh https://www.sciencedirect.com/science/article/pii D Wu, GD Moody, J Zhang, PB Lowry - https://www [PDF] researc [PDF] https://schol J Zhang Mobile https://schol Citado											
27 Efficient Mobile Security for E H https://link.springer.com/article/10.1007/s11063-A Saranya, R Naresh - Neural Processir mobile https://schol Citado											

Crossref / 2020 – 2021

En Crossref se realizó la búsqueda de Artículos Científicos sobre Mobile Device security, ordenados, entre el 2020 y el 2021, publicadas el Institute of Electrical and Electronics Engineers (IEEE) (5,779), International Association of Online Engineering (IAOE) (463), Institution of Engineering and Technology (IET) (321) y Blue Eyes Intelligence Engineering and Sciences Engineering and Sciences Publication - BEIESP (299), esto nos da como resultado aproximadamente 58.102 resultados.

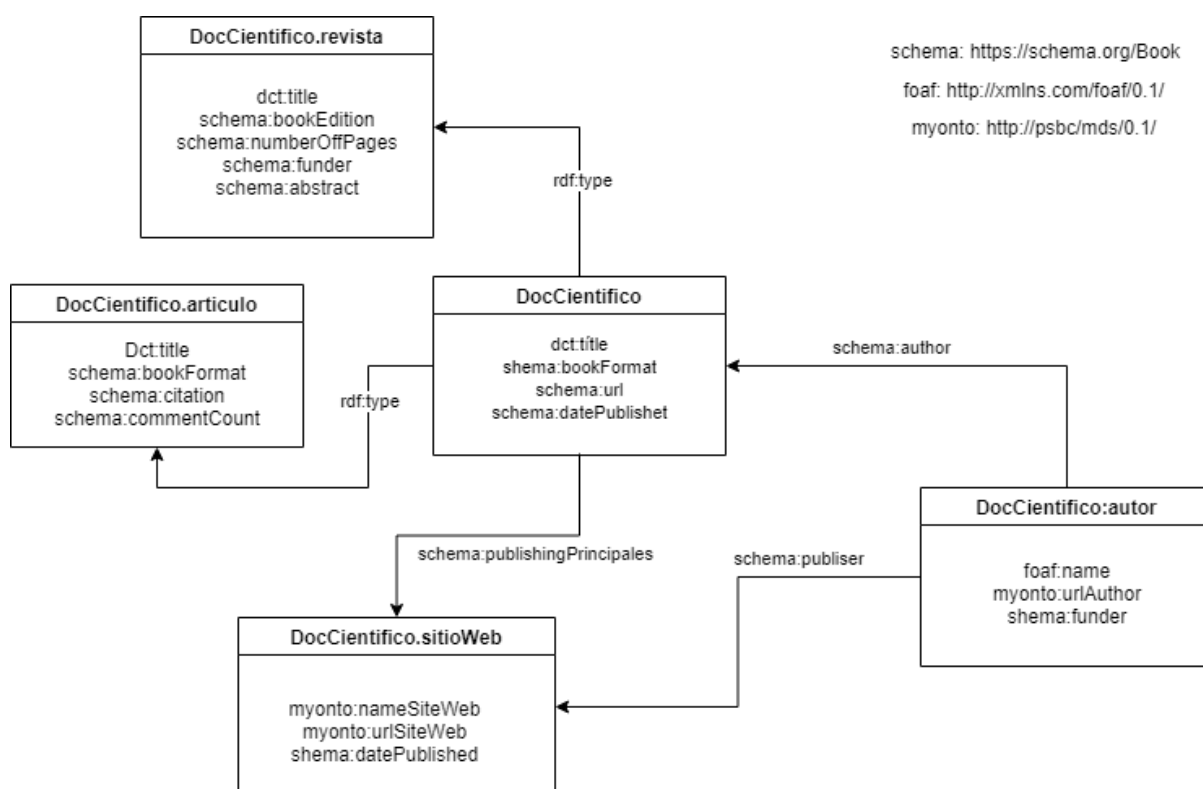
Url: https://search.crossref.org/?q=mobile+device+security+&from_ui=yes&type-name=Journal+Article&published=2020&publisher-name=Institute+of+Electrical+and+Electronics+Engineers+%28IEEE%29%3BInternational+Association+of+Online+Engineering+%28IAOE%29%3BInstitution+of+Engineering+and+Technology+%28IET%29%3BBlue+Eyes+Intelligence+Engineering+and+Sciences+Engineering+and+Sciences+Publication+-+BEIESP

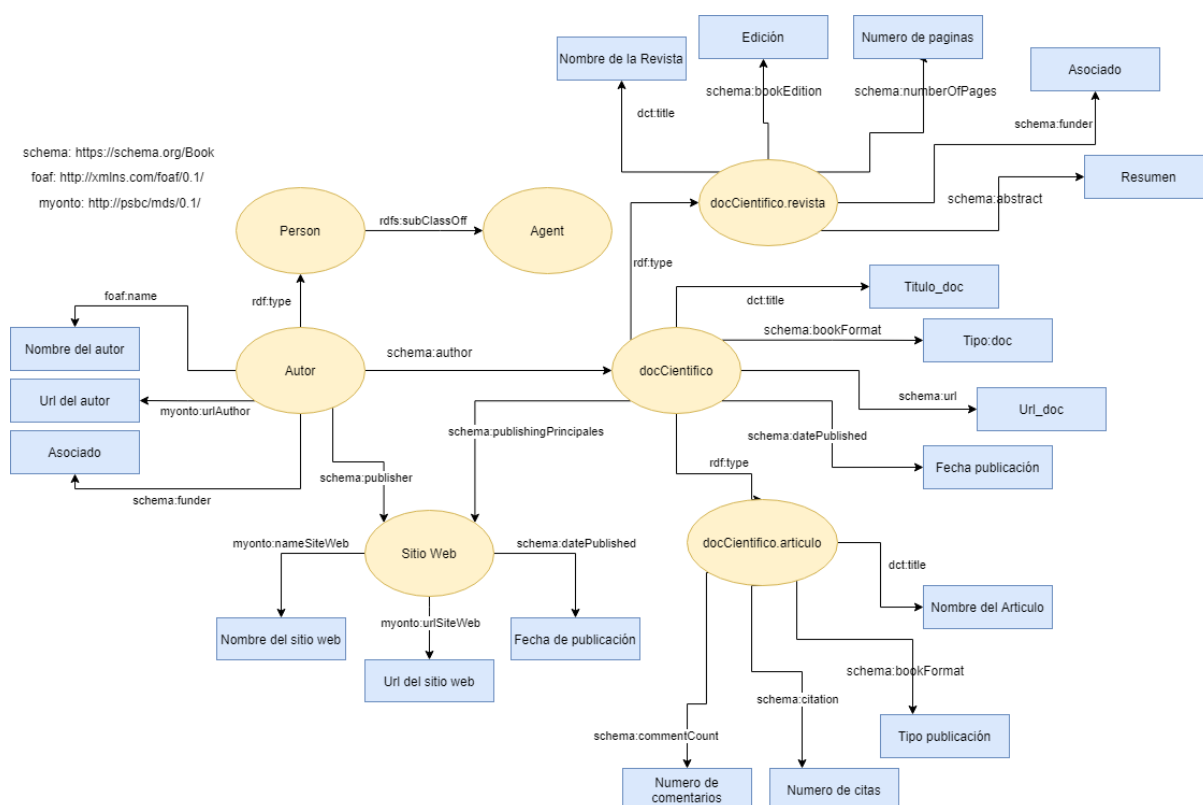
La herramienta a trabajar con los datos descargados es **OpenRefine**: Es una herramienta que permita trabajar con datos desordenados, permite limpiarlos, transformar datos, OpenRefine es una herramienta que mantiene la privacidad de los datos en la propia computadora hasta que uno desee compartirlos o brindar colaboración de los mismos. *Link:* <https://openrefine.org/>

Código Fuente Java: utilizaremos una librería en Java que se llama **POI**, esta permite trabajar con documentos Microsoft en creación, escritura y lectura. Esa librería se la utilizara para la lectura de los archivos generados por la herramienta Octoparse para realizar las tripletas correspondientes y ser almacenadas en una base de datos *MySQL*.

DIAGRAMA DE INTEGRACIÓN



DESCRIPCION SEMANTICA / ONTOLOGIA



VOCABULARIO

PREFIJOS

psbc:

ProyectoMDS

owl:

<https://www.w3.org/2002/07/owl#Class>

foaf:

<http://xmlns.com/foaf/0.1/>

myonto:

<http://psbc/mds/0.1/>

Subjet	Predicate	Objet
psbc:autor	rdf:type	rdfs:Class
psbc:autor	rdf:type	foaf:Person
psbc:autor	rdfs:subClassOf	foaf:Agent
psbc:autor	rdfs:label	"writer"@en
psbc:autor	rdfs:label	"escritor"@es
psbc:autor	foaf:name	Nombre del escritor
psbc:autor	myonto:urlAuthor	Url del escritor
psbc:autor	schema:funder	Asociado / fundador
psbc:docCientifico	rdf:type	rdfs:Class
psbc:docCientifico	rdfs:label	"document"@en
psbc:docCientifico	rdfs:label	"documento"@es
psbc:docCientifico	schema:author	psbc:autor

psbc:docCientifico	rdfs:subClassOf	myonto:docCientifico.revista
psbc:docCientifico	rdfs:subClassOf	myonto:docCientifico.articulo
psbc:docCientifico	rdf:type	psbc:docCientifico.revista
psbc:docCientifico	rdfs:label	"Scientific Magazine"@en
psbc:docCientifico	rdfs:label	"Revista Cientifica"@es
psbc:docCientifico	rdf:type	psbc:docCientifico.articulo
psbc:docCientifico	rdfs:label	"Scientific Article"@en
psbc:docCientifico	rdfs:label	"Articulo Cientifico"@es
psbc:docCientifico	dct:title	Nombre del documento
psbc:docCientifico	schema:bookFormat	Tipo de documento
psbc:docCientifico	schema:url	Url del documento
psbc:docCientifico	schema:datePublished	Fecha de publicacion
psbc:docCientifico.revista	dct:title	Nombre de la revista
psbc:docCientifico.revista	schema:numberOfPages	Numero de paginas
psbc:docCientifico.revista	schema:bookEdition	Numero de edicion
psbc:docCientifico.revista	schema:funder	Asociado / fundador
psbc:docCientifico.revista	schema:abstract	Resumen
psbc:docCientifico.articulo	dct:title	Nombre del articulo
psbc:docCientifico.articulo	schema:bookFormat	Tipo de publicacion
psbc:docCientifico.articulo	schema:citation	Numero de citas
psbc:docCientifico.articulo	schema:commentCount	Numero de comentarios
psbc:autor	schema:publisher	psbc:sitioWeb
psbc:docCientifico	schema:publishingPrincipales	psbc:sitioWeb
psbc:sitioWeb	myonto:nameSiteWeb	Nombre del sitio web
psbc:sitioWeb	myonto:urlSiteWeb	Url del sitio web
psbc:sitioWeb	schema:datePublished	Fecha de publicacion