



ScholarBank@NUS: Bank deposits that grow constantly, building knowledge for the future

23 Aug 2013

Toh Kim Kee
Stephanie Ng

NUS Libraries



Outline

- Introduction and content of ScholarBank@NUS
- Enablers
 - Content is shared globally
 - OAI harvesting is enabled
- Challenges
 - Harvesting of staff publications metadata

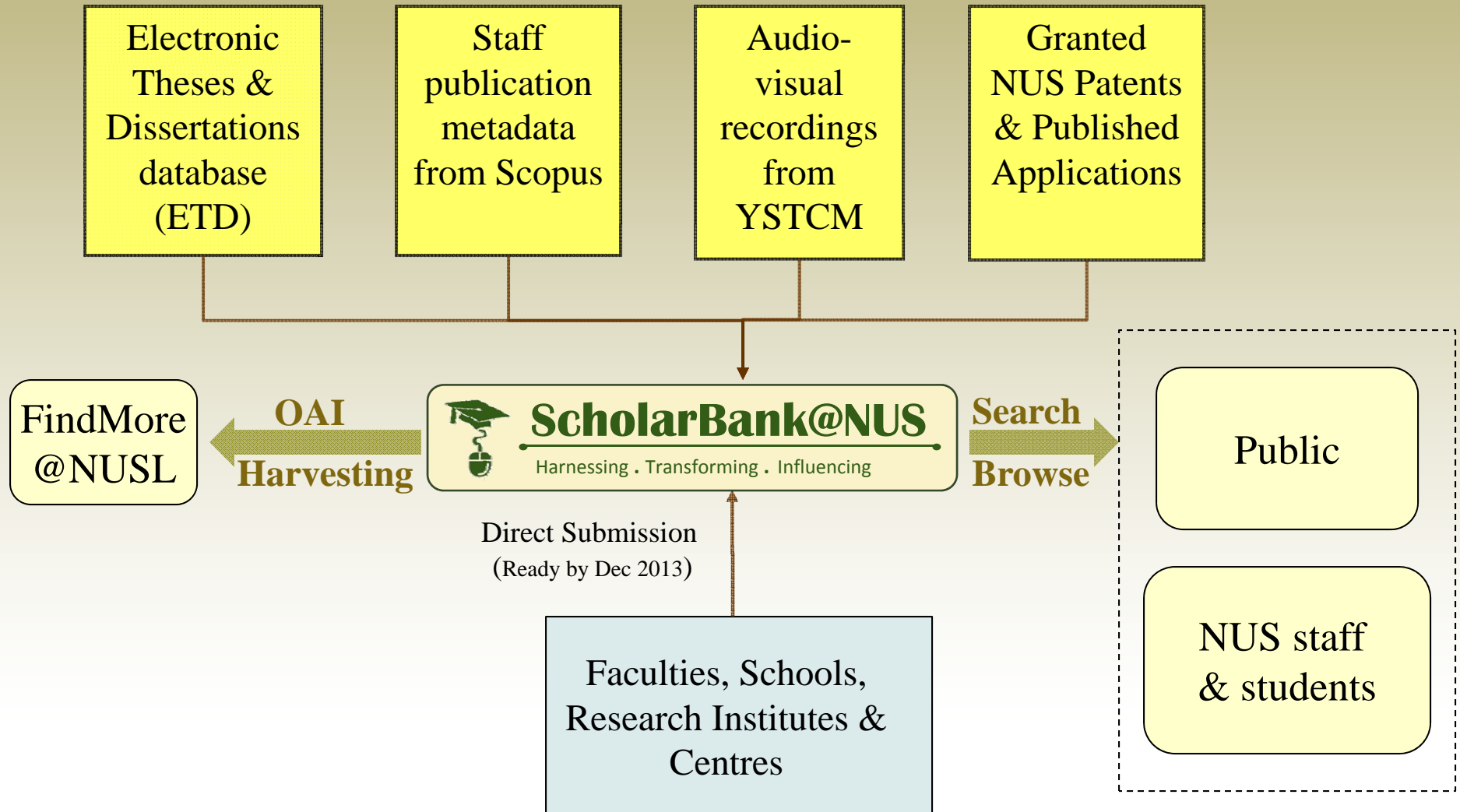


What is ScholarBank@NUS?

- Institutional repository of NUS
- Collects, stores and preserves NUS scholarly output for knowledge sharing among NUS as well as global community
- A collaborative project between NUS Libraries and Computer Centre
- University-level project with contributions from various faculties, schools and departments



Centralized Repository: ScholarBank@NUS





Sources of Data

- **Electronic Theses & Dissertations [Apr 2010]**
 - Master's (by research) and Ph.D theses from 2003 onwards
 - Metadata and full-text from ETD system

- **Staff publications (journal articles, conference papers, reviews etc) [Feb 2011]**
 - Metadata from Scopus (Abstract & Citation database)
 - DOI is provided in some of the records to link to full-text at publisher's site

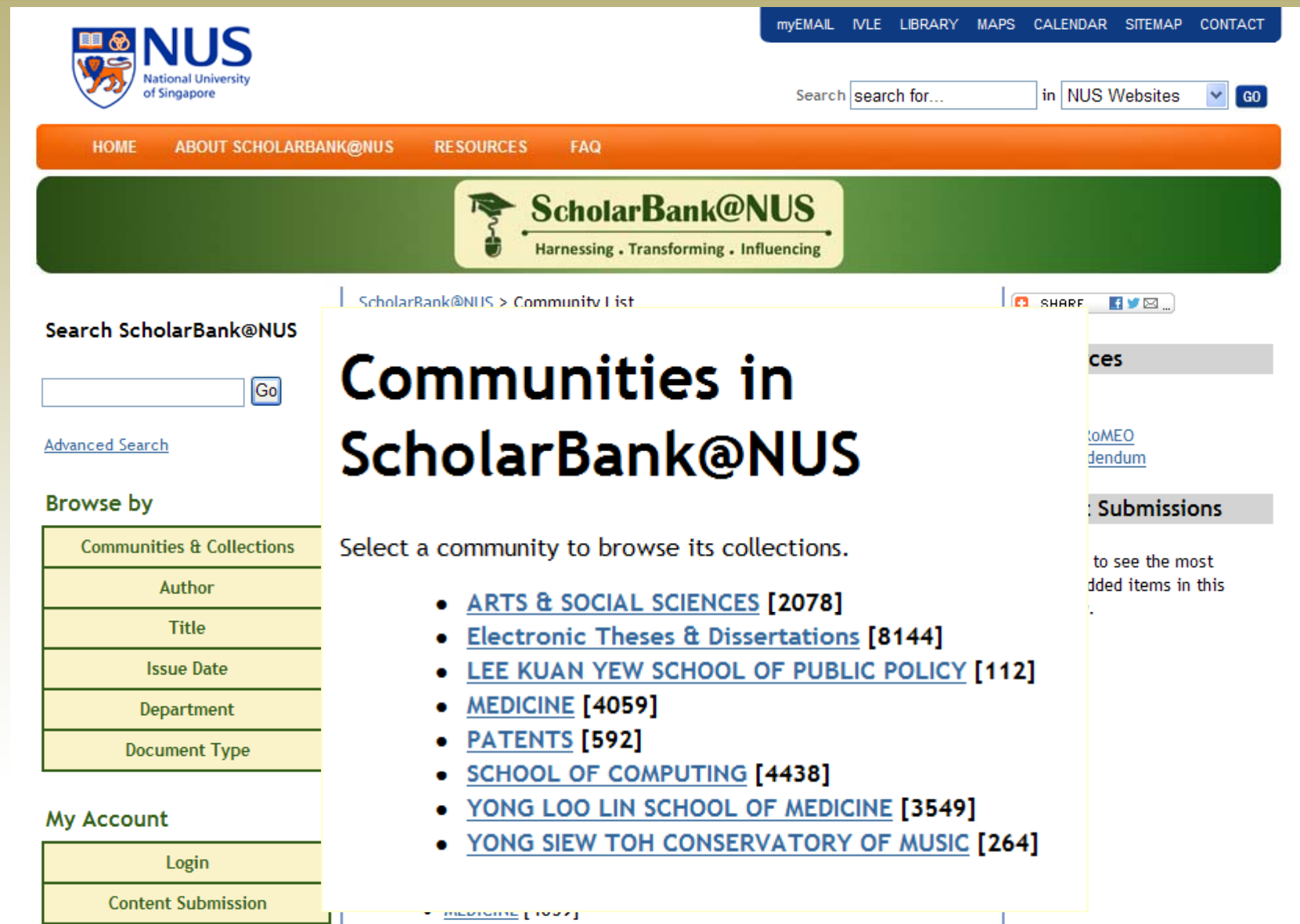


Sources of Data

- **Yong Siew Toh Conservatory of Music recordings [Sep 2011]**
 - Recent performance recordings from YSTCM
 - Audio and video streaming is available in ScholarBank@NUS

- **Patents [May 2012]**
 - Metadata and full-text provided by PatSnap (Patent database)

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Transient Absorption Spectroscopy of Noble Metal Nanoparticles

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Title:	Transient Absorption Spectroscopy of Noble Metal Nanoparticles
Authors:	YU KUAI
Supervisor:	XU QINGHUA; HONG MINGHUI
Keywords:	metal nanoparticles, pump-probe spectroscopy, transient absorption, oscillation, damping, single-particle spectroscopy
Issue Date:	2013
Abstract:	In this thesis we have investigated the nonlinear optical properties of gold nanorods with both ensemble measurements and single-particle studies by using transient absorption spectroscopy and we have also investigated the nonlinear spectra changes of gold nanorods after coating with another silver shell. The observed experimental data are also theoretically calculated. We anticipate that the well understood nonlinear spectroscopy will help us to control the physical processes in ultra-short time scales with nano-objects.
Department:	NUS GRAD SCH FOR INTEGRATIVE SCI & ENGG
Degree Conferred:	DOCTOR OF PHILOSOPHY
Document Type:	Thesis

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Phenomena and mechanisms of photovoltaic effects in ferroelectric BiFeO₃ thin films

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Title:	Phenomena and mechanisms of photovoltaic effects in ferroelectric BiFeO ₃ thin films
Authors:	JI WEI
Supervisor:	LIANG YUNG CHII; YAO KUI
Keywords:	ferroelectric, BiFeO ₃ , thin film, photovoltaic, epitaxial
Issue Date:	2012
Abstract:	In this study, high quality epitaxial ferroelectric BiFeO ₃ (BFO) films are fabricated by sputter deposition. The PV property of the BFO films and its mechanisms are systematically investigated. The results show that both depolarization field and the bulk photovoltaic effect (BPVE) contribute to the observed PV processes in BFO films with sandwich structures. The photocurrents from these two mechanisms in BFO are probably opposite to each other and partially cancel out. This could be one of the factors that limit the efficiency in these samples. The photoelectrolytic reaction of water splitting using BFO as the photoelectrode is investigated. Significant anodic photocurrents are observed. A possible monolithic water splitting cell based on BFO is proposed. The results from this study show that the PV effects in ferroelectric materials can be used to achieve unique functionalities in novel devices, and even possibly contribute to energy harvesting.
Department:	ELECTRICAL & COMPUTER ENGINEERING
Degree Conferred:	DOCTOR OF PHILOSOPHY
Document Type:	Thesis

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Spider Silk and Silkworm Silk Filaments: From Structure to Performance

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Title:	Spider Silk and Silkworm Silk Filaments: From Structure to Performance
Authors:	XU GANGQIN
Supervisor:	LIU XIANG YANG
Keywords:	silk, mechanical properties, structure, property-structure relationship, multi-scale breaking mechanism, strain recovery
Issue Date:	2013
Department:	PHYSICS
Degree Conferred:	DOCTOR OF PHILOSOPHY
Document Type:	Thesis

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Closed	<ul style="list-style-type: none">• Citations (author, title, etc)• No abstract• No full-text	World-wide

Staff Publication – Scopus Data



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Title:	Industrial geography: Industrial restructuring and labour markets
Authors:	Yeung, H.W.-C.
Issue Date:	2002
Document Type:	Article

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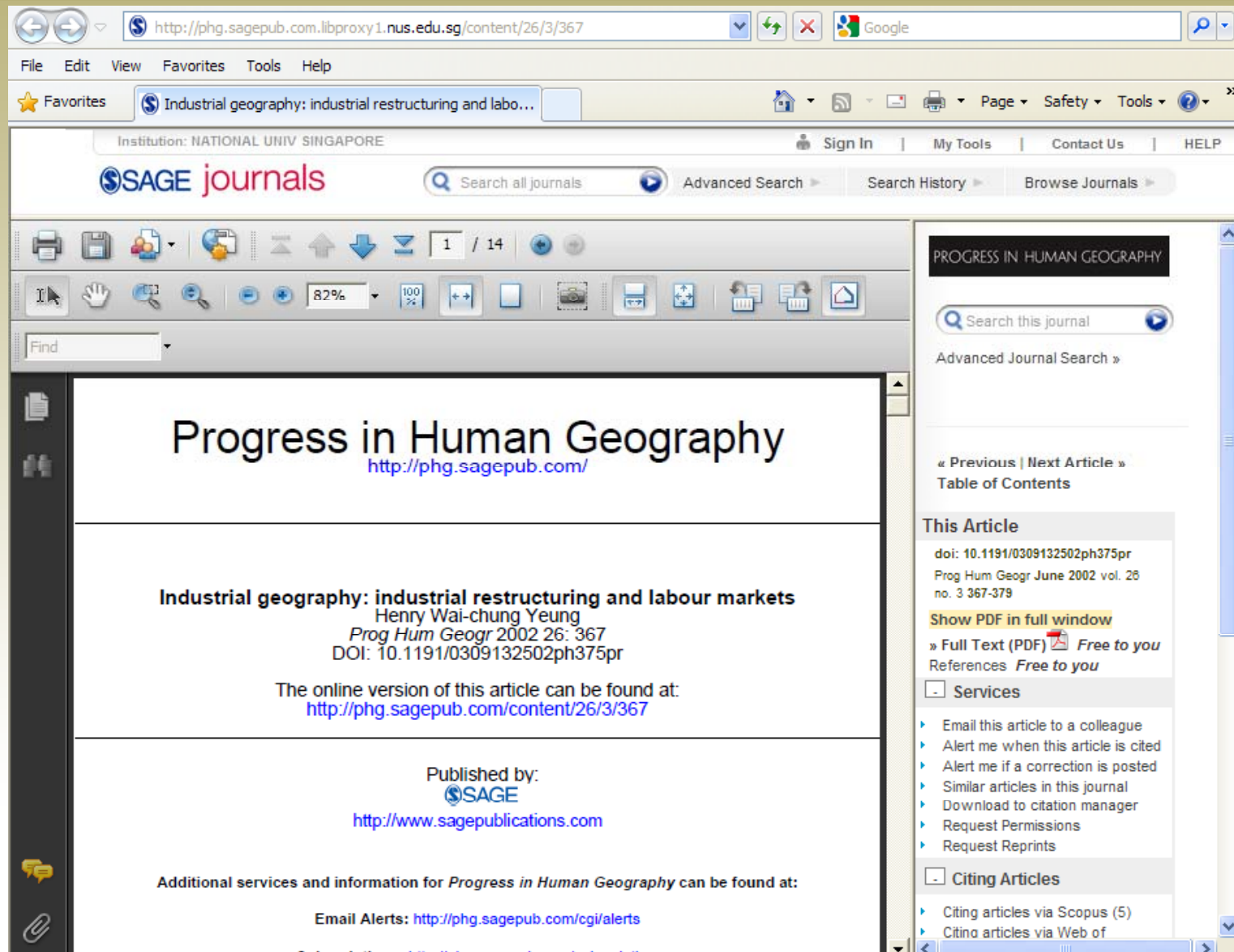
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dc.contributor.author	Yeung, H.W.-C. 
dc.date.accessioned	2011-02-24T07:22:36Z
dc.date.available	2011-02-24T07:22:36Z
dc.date.issued	2002
dc.identifier.issn	03091325
dc.identifier.uri	http://scholarbank.nus.edu.sg/handle/10635/20102
dc.source	Scopus
dc.title	Industrial geography: Industrial restructuring and labour markets
dc.type	Article
dc.contributor.department	GEOGRAPHY
dc.description.doi	http://dx.doi.org.libproxy1.nus.edu.sg/10.1191/0309132502ph375pr
dc.description.sourcetype	Progress in Human Geography
dc.description.volume	26
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dc.description.page	367-380

Staff Publication – Full Text via DOI



http://phg.sagepub.com.libproxy1.nus.edu.sg/content/26/3/367

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Henry Wai-chung Yeung
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Methods for enhancing photolithography patterning

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Title:	Methods for enhancing photolithography patterning
Authors:	LING, MOH LUNG; CHUA, GEK SOON; LIN, QUNYING; TAY, CHO JUI; QUAN, CHENGGEN
Issue Date:	2013
Abstract:	A method for fabricating a semiconductor device that includes: providing a substrate prepared with a photoresist layer; providing a photomask comprising a first and a second pattern having a respective first and second pitch range; providing a composite aperture comprising a first and a second off-axis illumination aperture pattern, the first off-axis aperture pattern having a configuration that improves the process window of the first pitch range and the second off-axis aperture pattern having a configuration that improves the process window for a second pitch range; exposing the photoresist layer on the substrate with radiation from an exposure source through the composite aperture and the photomask; and developing the photoresist layer to pattern the photoresist layer.
Document Type:	Patent

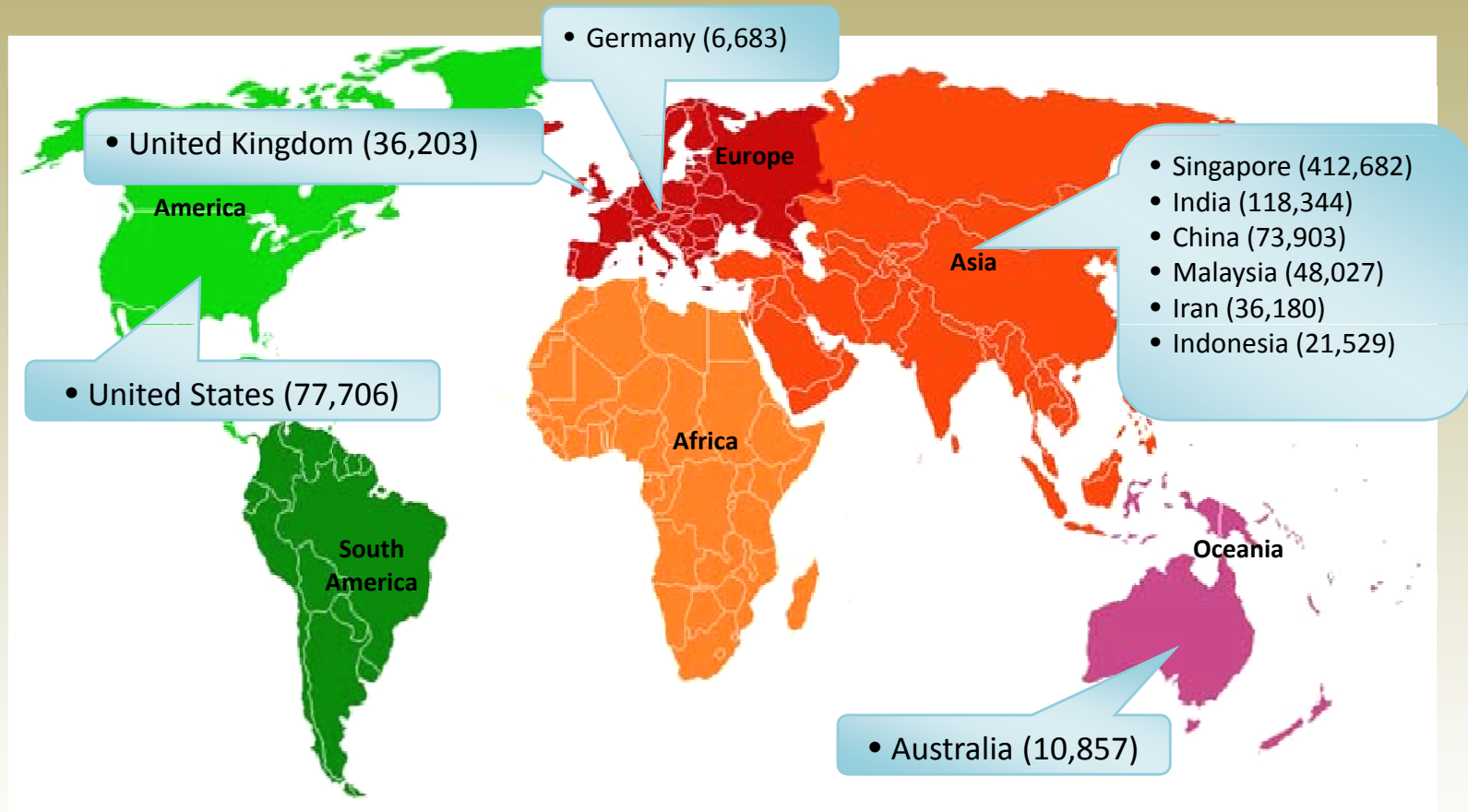
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Global Reach (Top 10 countries)



Top 10 countries ranked by no. of page views for Aug 2012 – Jul 2013.

They contributed to 842,114 (71.7%) of the 1,154,873 total page views during this period.



Challenges:

Harvest Staff Publications from SPS

- Why not from SPS (Staff Publication System) ?
 - Inhouse SPS system planning to migrate to new platform
 - Data mapping to current structure is complex and tedious
 - Progress of SPS migration was slower than we expected
 - Non NUS publication (include works when they were affiliated with other institution)



Harvest Staff Publications from Scopus

- Why Scopus ?
 - Multi-disciplinary
 - Large database with more than 28 million records from 1996
 - Indexes mainly journal articles and conference papers
 - Cheaper option

Harvesting Process

Figure 1: Overview of metadata import

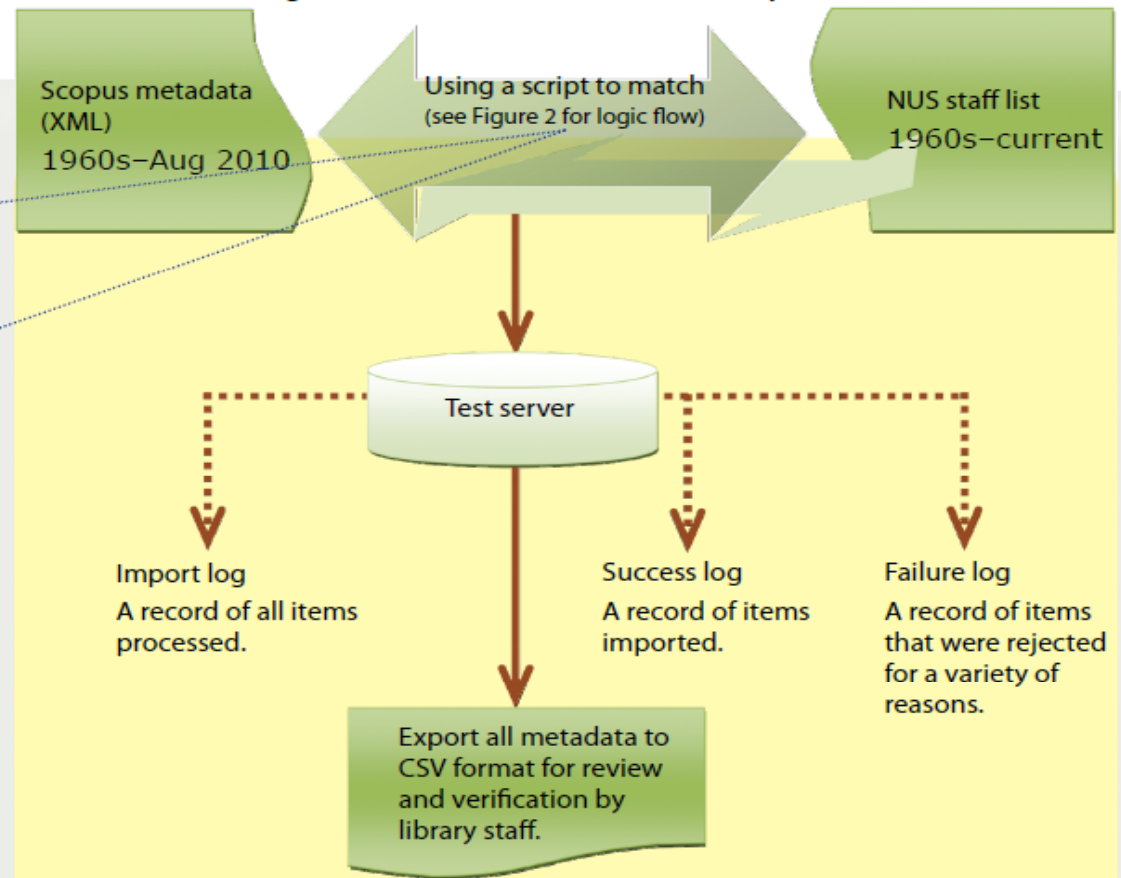
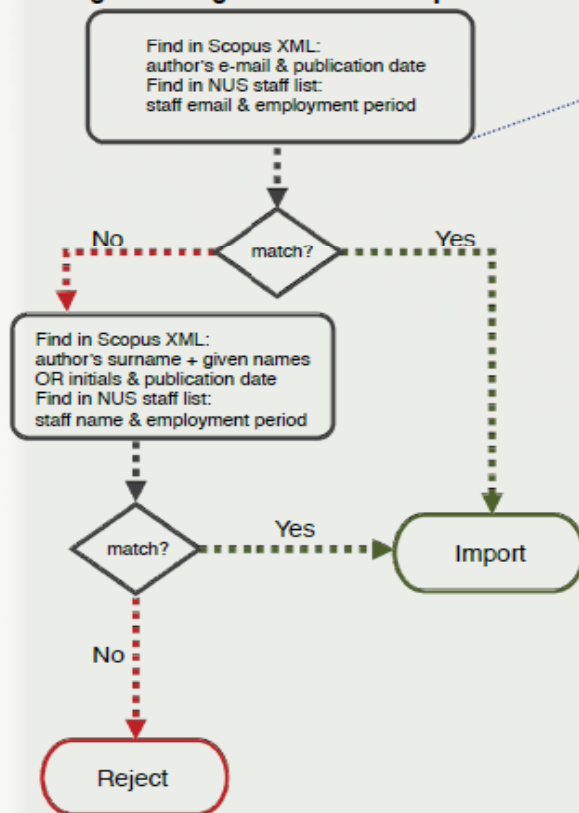


Figure 2: Logic flow of the script





Verification Process

- Matching criteria
 - E-mail address
 - Name
 - Tenure start date
- The import process generated ‘success’ log and ‘reject’ log
 - ‘success’ log
 - Mismatched records were found. Project team proceeded to verify and correct the records associated with wrong staff
 - ‘reject’ log
 - Project team checked for possible causes for the failure to match & to assign staff unique ID & department name



Challenges Encountered

- Difficult to match last name, name initial in Scopus against full name in NUS staff list
 - Different Chinese authors have same last name & initial, some even in the same area of research (not unique enough to identify)
 - Incorrect inversion of family name and given names particularly of Chinese, Malay and Indian names, extraneous punctuation and character space
 - Name variants are common in Scopus
 - Some authors published with different names



Different Authors with Same Last Name and Initials

	Authors	Documents	Subject Area	Affiliation	City	Country
<input type="checkbox"/> 1	Lim, SuChi Lim, S. C. Lim, Su Chi Lim, Su C.	60 Show Last Title	Medicine ; Biochemistry, Genetics and Molecular Biology ; Pharmacology, Toxicology and Pharmaceutics; ...	Khoo Teck Puat Hospital	Singapore City	Singapore
<input type="checkbox"/> 2	Lim, SehChun Lim, Seh Chun Lim, S. C.	43 Show Last Title	Engineering ; Materials Science ; Physics and Astronomy; ...	National University of Singapore	Singapore City	Singapore
<input type="checkbox"/> 3	Lim, Robert Lim, R. S C Lim, R.	34 Show Last Title	Medicine ; Biochemistry, Genetics and Molecular Biology ; Pharmacology, Toxicology and Pharmaceutics; ...	National University of Singapore	Singapore City	Singapore
<input type="checkbox"/> 4	Lim, Sam Lim, S. C. V. Lim, S. C.	32 Show Last Title	Materials Science ; Engineering ; Chemical Engineering; ...	National University of Singapore	Singapore City	Singapore
<input type="checkbox"/> 5	Lim, ChinSeong Lim, C. S. Lim, Chin Seong	14 Show Last Title	Materials Science ; Physics and Astronomy ; Engineering; ...	Date Storage Institute, A-Star, Singapore	Singapore City	Singapore



Inversion of Family Name and Given Name

Ip, YuenKwong		Yuen, Kwong I.																					
Personal		Personal																					
Name	Ip, YuenKwong	Name	Yuen, Kwong I.																				
Other formats	Ip, Yuen Kwong Ip, Yuen K. Ip, Y. K.	Author ID																					
Author ID		Affiliation	National University of Singapore, Department of Biological Sciences, Singapore City Singapore																				
Affiliation	National University of Singapore City Singapore	Research																					
<table border="1"><thead><tr><th>Staff Name</th><th>Email Address</th><th>Faculty Name</th><th>Dept Name</th></tr></thead><tbody><tr><td>Ip Yuen Kwong</td><td></td><td>SCIENCE</td><td>ZOOLOGY</td></tr><tr><td>Ip Yuen Kwong</td><td></td><td>SCIENCE</td><td>BIOLOGICAL SCIENCES</td></tr><tr><td>Ip Yuen Kwong</td><td></td><td>SCIENCE</td><td>BIOLOGICAL SCIENCES</td></tr><tr><td>Ip Yuen Kwong</td><td></td><td>SCIENCE</td><td>BIOLOGICAL SCIENCES</td></tr></tbody></table>		Staff Name	Email Address	Faculty Name	Dept Name	Ip Yuen Kwong		SCIENCE	ZOOLOGY	Ip Yuen Kwong		SCIENCE	BIOLOGICAL SCIENCES	Ip Yuen Kwong		SCIENCE	BIOLOGICAL SCIENCES	Ip Yuen Kwong		SCIENCE	BIOLOGICAL SCIENCES		
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Ip Yuen Kwong		SCIENCE	BIOLOGICAL SCIENCES																				
Co-authors	150 (maximum 150 co-authors)	Web search	7633																				
Web search	0	Subject area	Agricultural and Biological Sciences Biochemistry, Genetics and Molecular Biology																				
Subject area	Agricultural and Biological Biochemistry, Genetics and Medicine More...	Find potential author matches																					
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History		Publication range 2004-2007																					
Publication range 1987-Present																							



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Hock, Ow Chin

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Personal

Name Hock, Ow Chin

Author ID

Affiliation National University of Singapore, Department of Economics and Statistics,
Singapore City
Singapore

Staff Name	Email Address	Faculty Name	Dept Name
Ow, Chin Hock		ARTS & SOCIAL SCIENCES	ECONOMICS & STATISTICS
Ow, Chin Hock		ARTS & SOCIAL SCIENCES	ECONOMICS & STATISTICS
Ow, Chin Hock		ARTS & SOCIAL SCIENCES	ECONOMICS & STATISTICS

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Co-authors 2

Web search 896

Subject area Economics, Econometrics and Finance

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History

Publication range 1990-1996



Name Variants in Scopus

Ng, P. K. L.

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Personal

Name Ng, P. K. L.

Other formats
Ng, P. K L
Ng, P. K.
Ng, Peter
Ng, Peter K L
Ng, Peter Kee Lin
Ng, Peter Kee Lin
Ng, Peter
NG, P. K L
Ng, Peter K L Ng

Author ID

Affiliation National University of Singapore, Tropical Marine Science Institute,
Singapore City
Singapore

Staff Name	Email Address	Faculty Name	Dept Name
Ng, Kee Lin Peter		SCIENCE	ZOOLOGY
Ng, Kee Lin Peter		SCIENCE	BIOLOGICAL SCIENCES
Ng, Kee Lin Peter		SCIENCE	BIOLOGICAL SCIENCES
Ng, Kee Lin Peter		SCIENCE	BIOLOGICAL SCIENCES

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Subject area
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History

Publication range 1981-Present



Tedious Process

- Verification & correction of matched metadata & clearing of rejects were extremely tedious and time-consuming.
- On average, it takes 1 hour to verify and correct about 7 records.
- Estimated effort to complete the harvesting process for more than 50,000 NUS staff publications is 8,323 man-hours ! That's more than 3 man-years !!!

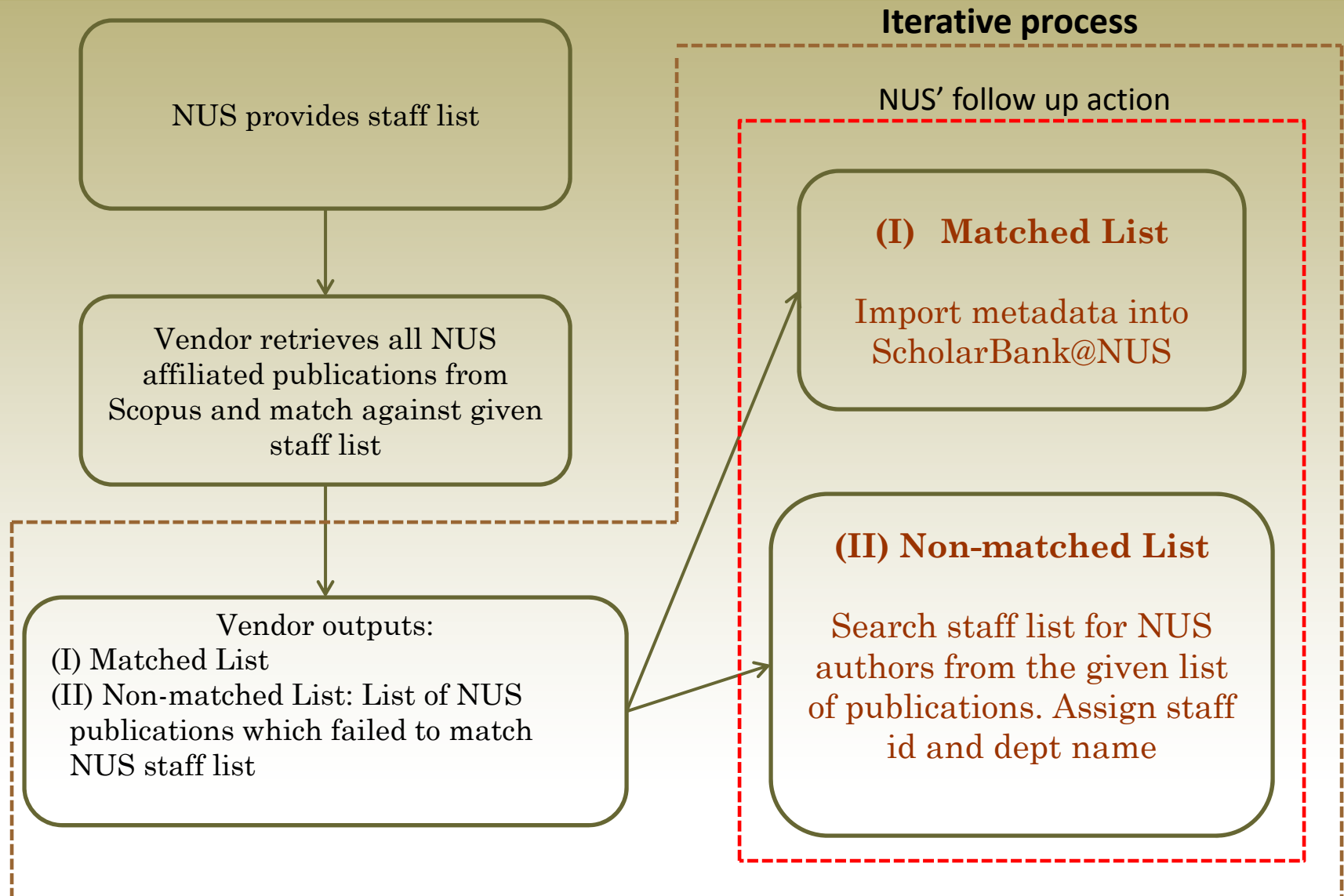


Mitigate Challenges Encountered

- Engage SciVAL Quality Assurance service to perform data matching and verification process.
- This service is expected to produce data which is ready for import without the need for **further** checking and correction
- Benefit:
 - ‘Import Ready’ data
 - Save staff time in doing verification and correction
 - Speed up the whole process



Process to Acquire SciVAL Data





New Challenges Encountered

- SciVAL data inaccuracy
 - Some staff publications belonging to NUS authors are missed out
- What could have happened ?
 - Multiple Author IDs (profiles) in Scopus
 - Scopus data error
 - Human errors inevitable
 - high volume of data
 - process was semi-automated

Multiple Author Ids in Scopus

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<input type="checkbox"/> 3 Goh, ChengHian Goh, Cheng Hian Goh, C. H.	14 Show Last Title	Computer Science ; Engineering ; Mathematics; ...	DSO National Laboratory, Singapore
<input type="checkbox"/> 4 Goh, JamesCh Goh, James C. Goh, J. C. H. Goh, J. C.	8 Show Last Title	Engineering ; Medicine ; Health Professions; ...	National University of Singapore
<input type="checkbox"/> 5 Goh, CheongHian Goh, Cheong Hian Goh, C. H.	5 Show Last Title	Materials Science ; Chemistry ; Pharmacology, Toxicology and Pharmaceutics; ...	National University of Singapore
<input type="checkbox"/> 6 Goh, James Cho Hong Goh, James C H	3 Show Last Title	Engineering ; Materials Science ; Medicine; ...	National University of Singapore
<input type="checkbox"/> 7 Goh, C. B H	2 Show Last Title	Immunology and Microbiology ; Biochemistry, Genetics and Molecular Biology	National University of Singapore
<input type="checkbox"/> 8 Goh, JamesCh Goh, James C H Goh, James Ch	2 Show Last Title	Engineering ; Medicine ; Materials Science; ...	National University of Singapore
Goh Cho Hong, James	YONG LOO LIN SCHOOL OF MEDICINE	ORTHOPAEDIC SURGERY	
Goh Cho Hong, James	YONG LOO LIN SCHOOL OF MEDICINE	ORTHOPAEDIC SURGERY	
Goh Cho Hong, James	YONG LOO LIN SCHOOL OF MEDICINE	ORTHOPAEDIC SURGERY	
Goh Cho Hong, James	ENGINEERING	BIOENGINEERING	
Goh Cho Hong, James	ENGINEERING	BIOENGINEERING	
Goh Cho Hong, James	ENGINEERING	BIOENGINEERING	

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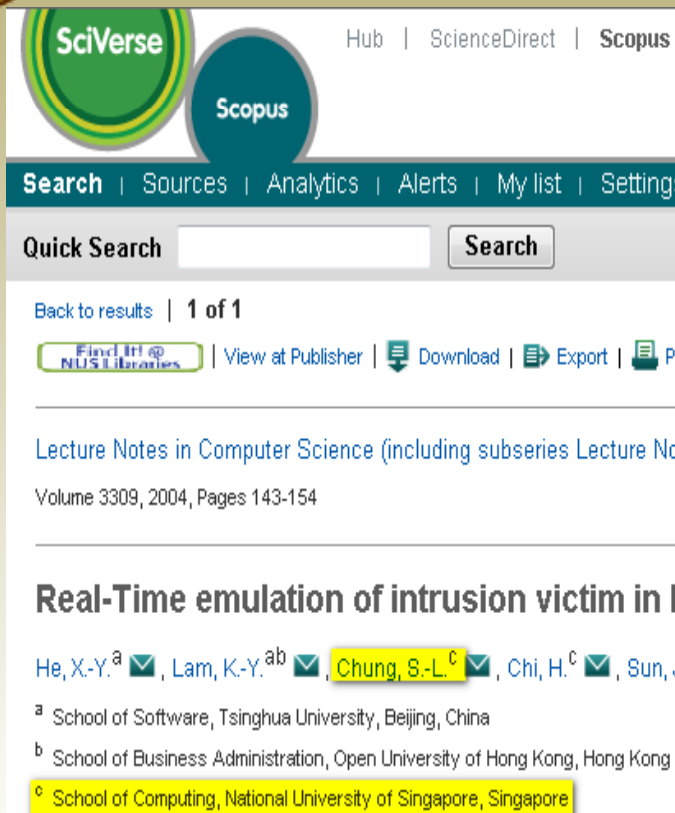
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Authors	Documents	Subject Area	Affiliation	City	Country
<input type="checkbox"/> 1 Ling, Florence Ling, F. Y Y Ling, Florence Y Y Ling, Florence Yean Yng	80 Show Last Title	Engineering ; Business, Management and Accounting ; Environmental Science; ...	National University of Singapore	Singapore City	Singapore
<input type="checkbox"/> 2 Ling, XingYi Ling, Xing Y. Ling, Xing Yi	26 Show Last Title	Materials Science ; Chemistry ; Chemical Engineering; ...	University of Twente	Enschede	Netherlands
<input type="checkbox"/> 3 Ling, Yvonne Ling, Y. L. Ling, Y. L. F. Ling, Y.	13 Show Last Title	Medicine ; Neuroscience ; Health Professions; ...	Singapore National Eye Centre	Singapore City	Singapore
<input type="checkbox"/> 4 Ling, YeanYng Ling, Yean Yng Ling, Y. Y.	9 Show Last Title	Engineering ; Business, Management and Accounting ; Social Sciences; ...	National University of Singapore	Singapore City	Singapore
<input type="checkbox"/> Ling, Hui Ling, Hui Yvonne	7	Biochemistry, Genetics and	National University of Singapore	Singapore City	Singapore

Staff Name	Faculty Name	Dept Name
Ling Yean Yng	ARCHITECTURE, BUILDING AND REAL ESTATE	SCHOOL OF BUILDING & REAL ESTATE
Ling Yean Yng	ARCHITECTURE, BUILDING AND REAL ESTATE	SCHOOL OF BUILDING & REAL ESTATE
Ling Yean Yng	ARCHITECTURE, BUILDING AND REAL ESTATE	SCHOOL OF BUILDING & REAL ESTATE
Ling Yean Yng	SCHOOL OF DESIGN AND ENVIRONMENT	BUILDING
Ling Yean Yng	SCHOOL OF DESIGN AND ENVIRONMENT	BUILDING

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Real-Time emulation of intrusion victim in HoneyFarm

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Real-Time Emulation of Intrusion Victim in HoneyFarm

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Abstract. Security becomes increasingly important. However, existing security tools, almost all defensive, have many vulnerabilities which are hard to overcome because of the lack of information about hackers techniques or powerful tools to distinguish malicious traffic from the huge

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PbS-polymer nanocomposite with third-order nonlinear optical response in femtosecond regime

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PbS–polymer nanocomposite with third-order nonlinear optical response in femtosecond regime

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