Authority framework in 1.6
and
CILEA's customization
for
The University of Hong Kong



Andrea Bollini CILEA ca Allen Lam HKU ca

Susanna Mornati CILEA 🗪

David Palmer HKU ca



Flight Plan

R David

- New design & customizations for HKU's IR
- The reason & funding wherefore
- Serendipitous discoveries

Andrea

- Authority Framework in 1.6
- Linkage between DSpace items, and author profiles
- Technical background of the RPs Project

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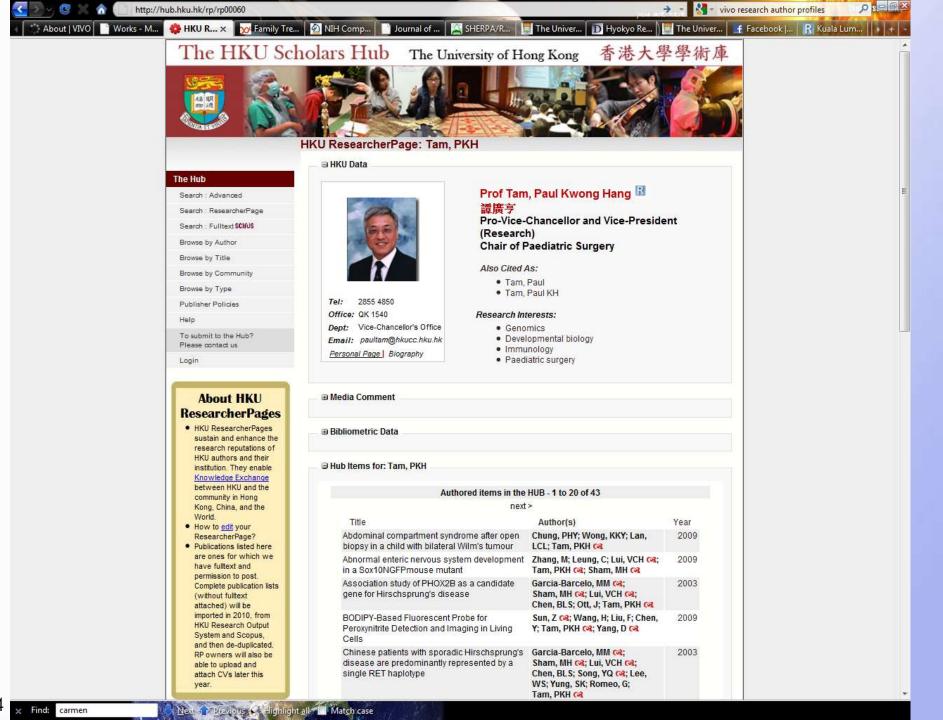
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For phrase search, please use quotation marks, for example, "Wann, John", or "Behavior Therapy".



Prof. L. Samaranayake

An interview with the HKU







HKU ResearcherPage: Tam, PKH

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2855 4850 Office: QK 1540

Dept: Vice-Chancellor's Office Email: paultam@hkucc.hku.hk

Personal Page | Biography

Prof Tam, Paul Kwong Hang

Pro-Vice-Chancellor and Vice-President (Research) Chair of Paediatric Surgery

Also Cited As:

- · Tam. Paul
- · Tam, Paul KH

Research Interests:

- Genomics
- Developmental biology
- Immunology
- · Paediatric surgery

■ Media Comment

Spoken Languages:

English | Cantonese | Putonghua (英語 | 粵語 | 普通話)

English | Chinese (英文 | 中文) Written Languages:

Area of expertise:

 Paediatric surgery (Hirchsprung's disease and related disorders; genetics of neuroblastoma, experimental immunology, genomics of childhood tumours, minimal invasive surgery, biliary atresia and choledochal cyst.)

■ Bibliometric Data

■ Hub Items for: Tam, PKH

Authored items in the HUB - 1 to 20 of 43

next >

Title	Author(s)	Year
Abdominal compartment syndrome after open biopsy in a child with bilateral Wilm's tumour	Chung, PHY; Wong, KKY; Lan, LCL; Tam, PKH 🙀	2009
Abnormal enteric nervous system development in a Sox10NGFPmouse mutant	Zhang, M; Leung, C; Lui, VCH 🝕; Tam, PKH 🝕; Sham, MH 🝕	2009
Association study of PHOX2B as a candidate gene for Hirschsprung's disease	Garcia-Barcelo, MM 👊; Sham, MH 👊; Lui, VCH 👊; Chen, BLS; Ott, J; Tam, PKH 👊	2003
BODIPY-Based Fluorescent Probe for Peroxynitrite Detection and Imaging in Living	Sun, Z ເਕ; Wang, H; Liu, F; Chen, Y; Tam, PKH (ब; Yang, D ເਕ	2009



HKU ResearcherPage: Tam, PKH

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⊞ HKU Data



2855 4850 Office: QK 1540

Dept: Vice-Chancellor's Office Email: paultam@hkucc.hku.hk

Personal Page | Biography

Prof Tam, Paul Kwong Hang

Pro-Vice-Chancellor and Vice-Presid (Research) Chair of Paediatric Surgery

Also Cited As:

- · Tam. Paul
- · Tam, Paul KH

Research Interests:

- Genomics
- Developmental biology
- Immunology
- Paediatric surgery

ResearcherID

Paul Tam RID: C-4405-2009 The University of Hong Kong

Most cited publications:

1. A haplotype map of the human genome Times Cited: 2059 (Web of Science®)

2. The International HapMap Project Times Cited: 1611 (Web of Science®)

3. A second generation human haplotype map of over

3.1 million SNPs

Times Cited: 877 (Web of Science®)

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■ Media Comment

English | Cantonese | Putonghua (英語 | 粵語 | 普通話) Spoken Languages:

English | Chinese (英文 | 中文) Written Languages:

Area of expertise:

 Paediatric surgery (Hirchsprung's disease and related disorders; genetics of neuroblastoma. experimental immunology, genomics of childhood tumours, minimal invasive surgery, biliary atresia and choledochal cyst.)

■ Bibliometric Data

Scopus ResearcherID RID: AuthorID: 7202539421 C-4405-2009 **Document Count:** 301 Document Count: 673

Cited by: 3477 Times Cited: 7508 h Index: 26 h Index: 28

Co-authors: 150 Co-authors: Collaboration Network

■ Hub Items for: Tam, PKH

Authored items in the HUB - 1 to 20 of 43

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Title Author(s) Year Abdominal compartment syndrome after open Chung, PHY; Wong, KKY; Lan, 2009 biopsy in a child with bilateral Wilm's tumour LCL: Tam, PKH (4 Abnormal enteric nervous system development Zhang, M; Leung, C; Lui, VCH (4); 2009

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Salcido-Ochoa, F.,

K., Rotzschke, O. Regulatory T cells in

triphosphate

Abstract + Refs

Reviews

Tsang, J., Tam, P., Falk,

transplantation: does extracellular adenosine

metabolism through

(2010) Transplantation

 Yang, D., Sun, Z.N., Peng, T., Wang, H.L.,

Synthetic fluorescent

probes for imaging of

hypochlorous acid in

View details of all 296

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author publishes new documents in Scopus:

documents by this author

molecular biology (Clifton,

peroxynitrite and

living cells. (2010) Methods in

Abstract + Refs

N.J.)

Shen, J.G., Chen, Y., Tam,

CD39 play a crucial role?

296 documents in Scopus: (Showing the 2 most recent)

Documents

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Tam, Paul K H

Personal Tam, Paul K H Name Other formats Tam, P. K. H. Tam, Paul K. Tam, P. K. h. Tam, P. K. Tam, Paul Tam, P. Kwong Hang Tam, Paul Author Identifier 7202539421 Affiliation University of Hong Kong, Department of Surgery Kowloon Hong Kong Research Add to list E-mail alert Documents 296 References 4637 Cited By Citation tracker E-mail alert 2466 h Index 24 M − graph | The h Index considers Scopus articles published after 1995.

Co-authors Web Search 62229 Subject Area

150 (maximum 150 co-authors can be displayed)

Morningside Laboratory for Chemical Biology, Department of Chemistry

Medicine Chemistry

History

Publication range 1982-Present

Source history Gastroenterology

Seminars in Neonatology

Journal of the American College of Surgeons More... Affiliation history Department of Chemistry

Centre for Reproduction, Development, and Growth

Biochemistry, Genetics and Molecular Biology More...

documents

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Institute of Molecular Technology for Drug Discovery and Synthesis, Hong Kong,

Hong Kong Shenyang

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China China

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This author has been cited

Universite Paris Descartes, Faculty of Medicine Paris France China Li Ka Shing Faculty of Medicine, Department of Surgery Hong Kong 2466 times in Scopus: (Showing the 2 most recent) QMH, Department of Surgery Hong Kong Hong Kong

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	R Author=(tam paul) OR Author=(tam kwong hang paul) bases=SCI-EXPANDED, SSCI, A&HCI, CPCI-S, CPCI-SSH. Scientific W
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Search within results for Search Search Subject Areas Surgery (142) Pediatrics (122)	 Title: Clinical Experience in Managing Pediatric Patients with Ultra-short Bowel Syndrome using Omega-3 Fatty Acid Author(s): Chung PHY, Wong KKY, Wong RMS, et al. Source: EUROPEAN JOURNAL OF PEDIATRIC SURGERY Volume: 20 Issue: 2 Pages: 139-141 Published: MAR 2010 Times Cited: 0 WebBridge
☐ GASTROENTEROLOGY & HEPATOLOGY (29) ☐ IMMUNOLOGY (23) ☐ TRANSPLANTATION (21) more options / values	2. Title: Lack of association between nNOS-84G > A polymorphism and risk of infantile hypertrophic pyloric stenosis in a Chine Author(s): Miao XP, Garcia-Barcelo MM, So MT, et al. Source: JOURNAL OF PEDIATRIC SURGERY Volume: 45 Issue: 4 Pages: 709-713 Published: APR 2010 Times Cited: 0
▼ Document Types Refine ARTICLE (184) PROCEEDINGS PAPER (50) LETTER (12) MEETING ABSTRACT (12)	Title: Reduced RET expression in gut tissue of individuals carrying risk alleles of Hirschsprung's disease Author(s): Miao XP, Leon TYY, Ngan ESW, et al. Source: HUMAN MOLECULAR GENETICS Volume: 19 Issue: 8 Pages: 1461-1467 Published: APR 15 2010 Times Cited: 0 WebBridge
■ NOTE (8) more options / values ► Authors ► Source Titles	4. Title: Silver Nanoparticles Mediate Differential Responses in Keratinocytes and Fibroblasts during Skin Wound Healing Author(s): Liu XL, Lee PY, Ho CM, et al. Source: CHEMMEDCHEM Volume: 5 Issue: 3 Pages: 468-475 Published: MAR 2010 Times Cited: 0 WebBridge
► Publication Years ► Conference Titles	5. Title: Management of choledochal cyst: 30 years of experience and results in a single center Author(s): She WH, Chung HY, Lan LCL, et al. Conference Information: 42nd Annual Meeting of the Pacific-Association-of-Pediatric-Surgeons, MAY 10-14, 2009 Hong Kong, PEOF

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Researcher ID

Researcherid.com

Institution automatically creates RID profiles

- Unique identifier for each researcher
- Researchers maintain control of information and privacy
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Updated citation counts, profile and publication data flow into institutions



HKU 港大

機関により RID プロファイルが自 動生成されます

- 各研究者の為、ユニークな識別子
- 研究者は自身で公開情報を管理・コントロールできます
- Web of Scienceで更新された被引用数が、機関リポジトリあるいはシステムと同期されます

アップデートされた被引用数、プロファイル、文献情報が機関に取り込まれます

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Tam, Paul

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ResearcherID: C-4405-2009

Other Names: Tam PKH; Tam P; Tam KH; 譚廣亨

URL: http://www.researcherid.com/rid/C-4405-2009

Subject: Critical Care Medicine; Emergency Medicine; General & Internal Medicine; Genetics & Heredity; Immunology; Integrative & Complementary Medicine; Neurosciences &

Neurology; Pathology; Pediatrics; Surgery; Transplantation

I Medicine: Genetics

Role: Researcher (Academic)

Hong Kong

My Institutions (more details)

Sub-org/Dept:

Primary Institution: The University of

Description: Chair of Paediatric Surgery and Division Chief. Professor Tam has received numerous awards including the BAPS prize, Royal

College of Surgeons' gold medal etc. He has published extensively including 19 chapters in 11 books and over 211 original articles in international journals. He was the Founding Director of the Centre of Human Development and Birth Defects.

My URLs: http://hub.hku.hk/rp/rp00060

http://www.hku.hk/vcoffice/menu/pvc-tam Biography.htm

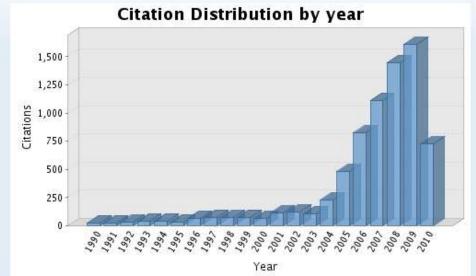
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My Publications (673)

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Citation Metrics ▶

Publication List: Citation Metrics

This graph shows the number of times the articles on the publication list have been cited in each of the last 20 years. Note: Only articles from ISI Web of Knowledge with citation data are included in the calculations. More information about these data.



Total Articles in Publication List 673

Articles With Citation Data: 278

Sum of the Times Cited: 7372

Average Citations per Article: 26.52

h-index: 27

Last Updated: 05/15/2010 14:04 GMT

Samaranayake, Lakshman Perera

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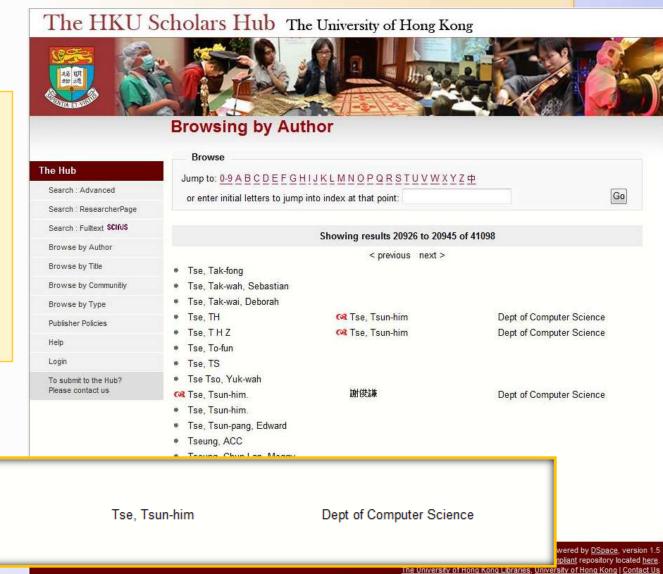
Authority Control

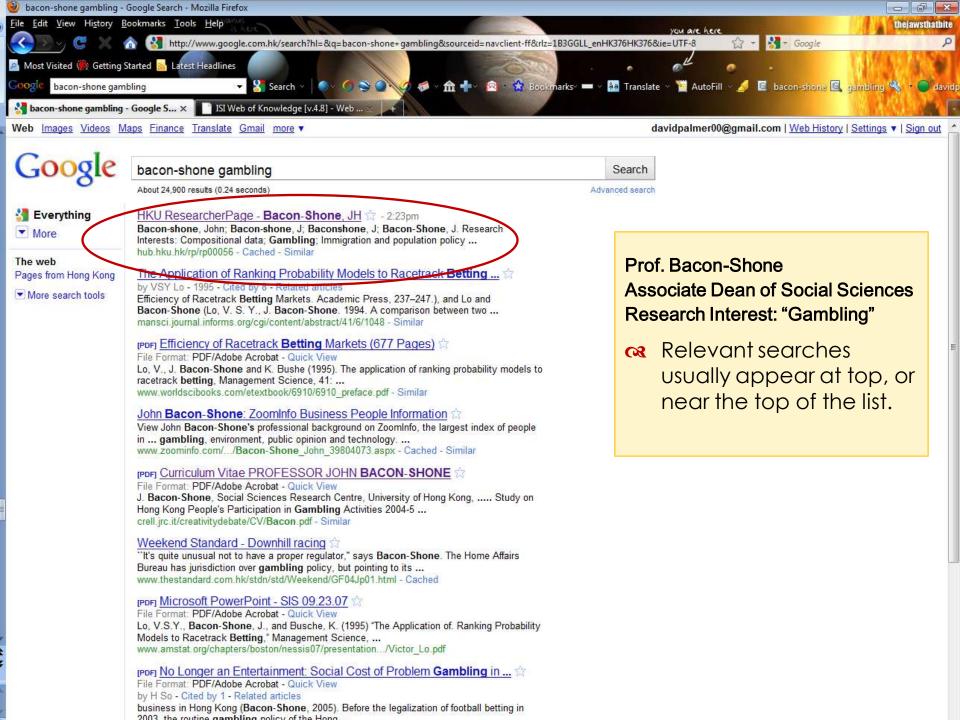
- Hierarchy of AuthoritySynonymy
 - Authorized headings
 - Variant headings
- Multi-script Synonymy
 - Roman, Traditional Chinese, Simplified Chinese, Japanese, Korean, etc. (UTF-8)

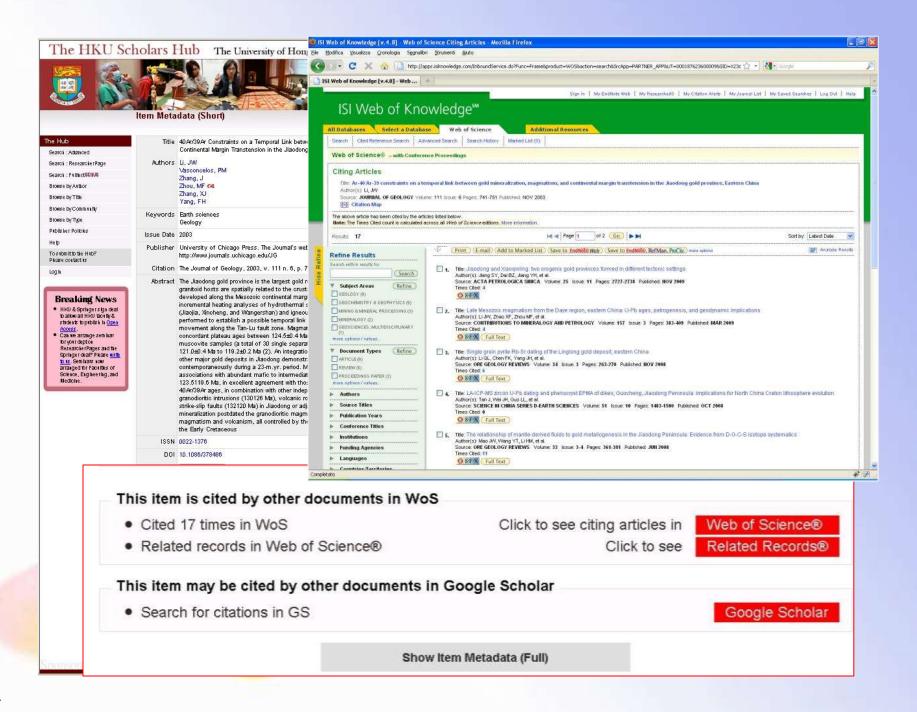
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Why did we do it?

« Knowledge Transfer:

- "the systems and processes by which knowledge, including technology, know-how, expertise and skills are transferred between higher education institutions and society, leading to innovative, profitable or economic or social improvements"
- US\$6.5M/yr, divided by 8 Universities in Hong Kong
- At HKU
 - Re-articulated Vision:
 - Teaching & Learning
 - Research
 - Knowledge Exchange (KE)
 - KE includes,
 - Database of Visible Expertise to Enable & Measure KE
 - Metrics from citation databases
 - Research Output & Grants, etc.
 - Expanded OA Strategy





1) Online Reputation Management

- **R** Findability
- **Cybervetting**
 - One bad apple...



2) Meanwhile,

- Reputation & identity of the institution:
 - University rankings
 - RAE
 - Peer Review
 - Parent's choice of school for child
 - Recruiter's choice
 - Media spokesmanship
 - Collaborative partnerships
 - Contract research undertaken
 - Funding received
 - Etc.



The Reputation of the University?























Increases

a	L	J	
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₽	Apr 2010	30 June 2010∂	Increase/Decrease
Scopus – Document Count	47,013	46,720₽	-0.62%∂
Scopus – Citation Count₽	484,679	493,641	1.85%₽
Scopus – CoAuthor Count	50,767	51,155₽	0.76%∂
Scopus – h index₽	8,165	8,281	1.42%₽
RID – Document Count₽	55,735₽	57,066₽	2.39%₽
RID – Citation Count₽	346,374	392,540₽	13.33%₽
RID – h index₽	4,892	5,210₽	6.5%₽
1			

•



3) HK's Research Assessment Excercise

CRUK:

 Research Excellence Framework (REF)

Australia

 Excellence in Research for Australia (ERA)



4) For HKU, a trusted authority

- ORCID Open Researcher & Contributor ID
 - Based upon ResearcherID
 - All authors & publishers to use
 - Citation databases; Scopus, WoS
 - June 2010
- RNpeople Bibliographic Knowledge Network People



5) Re-positioning the academic library

CROCLC Report

- Leverage value of IR in RAEs
- Provide a researcher-centred view
- Moving beyond putting books on shelves
- Aligned with institution's vision & mission
- Key Perspectives Ltd. "A comparative Review of Research Assessment Regimes in Five Countries and the Role of Libraries in the Research Assessment Process" (Report commissioned by OCLC Research), 2009.

 http://www.oclc.org/research/publications/library/2009/2009-09.pdf.



6) Re-thinking the IR

Moral and philosophical approaches have failed

And here, pilots switch in mid-stream

Authority Framework in DSpace 1.6





Technical details

- The Authority framework is one of the new major features of DSpace 1.6
- Main contribution & projectual idea by Larry Stone
- CILEA / HKU Project was an early adopter. For this we provided JSPUI & PostgreSQL porting, browse & search enchangement with support for variants names and forms



Authority Framework: responsibilities

- Bind metadata fields to an Authority
- Retrieve **matching values** from user queries / input



Authority Framework: main classes



org.dspace.content.authority

MetadataAuthorityManager

Configuration
Query

ChoiceAuthorityManager

example Extensibility provided by:

- ChoiceAuthority
- AuthorityVariantsSupport

How TO Query? WS, SQL, ...

Retrieve variants



Authority Framework: extension points

- org.dspace.content.authority

 ChoiceAuthority 5124

 getMatches(String, int, int, int, String) : Choices

 getBestMatch(String, int, String) : Choices

 getLabel(String, String) : String
- org.dspace.content.authority

 AuthorityVariantsSupport 4365

 getVariants(String, String) : List<String>



Authority Framework: which authorities?

- Library of Congress Personal names authority: LCNameAuthority
- Sherpa RoMEO Project, publisher names authority: SRPublisherAuthority
- Sherpa RoMEO Project, Journal titles authority: SRJournalTitle
- Controlled list: **DCInputAuthority**



Authority Framework: which authorities?

```
plugin.named.org.dspace.content.authority.ChoiceAuthority = \
  org.dspace.content.authority.SampleAuthority = Sample, \
  org.dspace.content.authority.LCNameAuthority = LCNameAuthority, \
  org.dspace.content.authority.SHERPARoMEOPublisher = SRPublisher, \
  org.dspace.content.authority.SHERPARoMEOJournalTitle = SRJournalTitle
```

```
## This ChoiceAuthority plugin is automatically configured with every
## value-pairs element in input-forms.xml, namely:
## common_identifiers, common_types, common_iso_languages
plugin.selfnamed.org.dspace.content.authority.ChoiceAuthority = \
   org.dspace.content.authority.DCInputAuthority
```



Changes to the Data Model

Two new fields for the MetadataValue class: authority & confidence

```
CREATE TABLE MetadataValue
 metadata value id
                    INTEGER PRIMARY KEY DEFAULT NEXTVAL ('metadatavalue seq'),
 item id
                    INTEGER REFERENCES Item(item id),
                    INTEGER REFERENCES MetadataFieldRegistry(metadata field id),
 metadata field id
 text value
                    TEXT,
 text lang
                    VARCHAR (24),
 place
                    INTEGER,
                    INTEGER DEFAULT -1 | Added fields in DSpace 1.6
 authority
                    VARCHAR (100),
 confidence
```



Authority Framework: settings

Interactive settings

```
choices.plugin.dc.contributor.author = LCNameAuthority
choices.presentation.dc.contributor.author = lookup | suggest | select
choices.closed.dc.contributor.author = false
```

General settings – model constraints

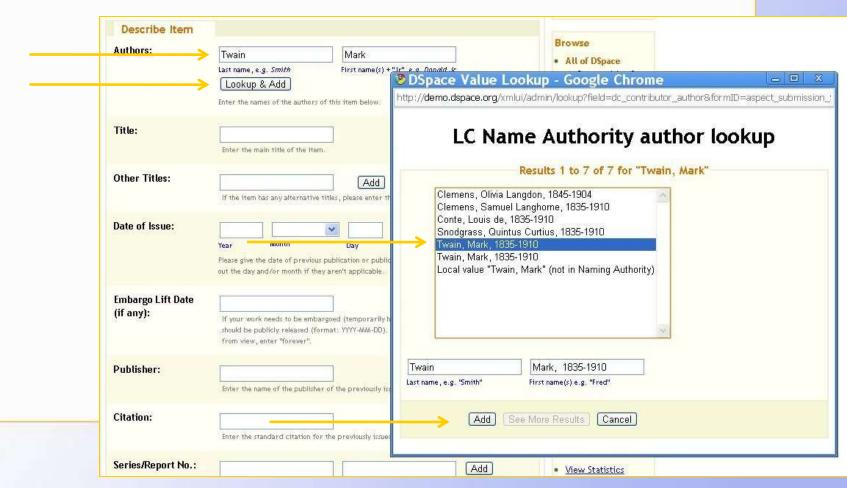
```
authority.controlled.dc.contributor.author = true
authority.required.dc.contributor.author = false
authority.minconfidence.dc.contributor.author = accepted *
authority.minconfidence = ambiguous *
```

* More on this later



Authority Framework: UI lookup

Pop-up windows





Authority Framework: UI lookup

An icon show metadata value bind to an authority key

Describe Item Authors:			
Authors	Last name, e.g. Smith	First name(s) + "Jr", e.g. Donald Jr	
	Enter the names of the authors of this item below. Twain, Mark, 1835-1910		
	Remove selected		



Authority Framework: UI suggest

Autocomplete AJAX

Publisher:	Spring Enter the name of the publisher	of the previously issued instance of this item.
Publisher:	Spring	
Citation:	Cold Spring Harbor Laboratory Press Humana Press	the previously issued instance of this item.
	Ivyspring International Publisher	previously issued instance of this item.
Series/Report No.:	Kluwer	Add
	Springer Verlag	Report or paper No.

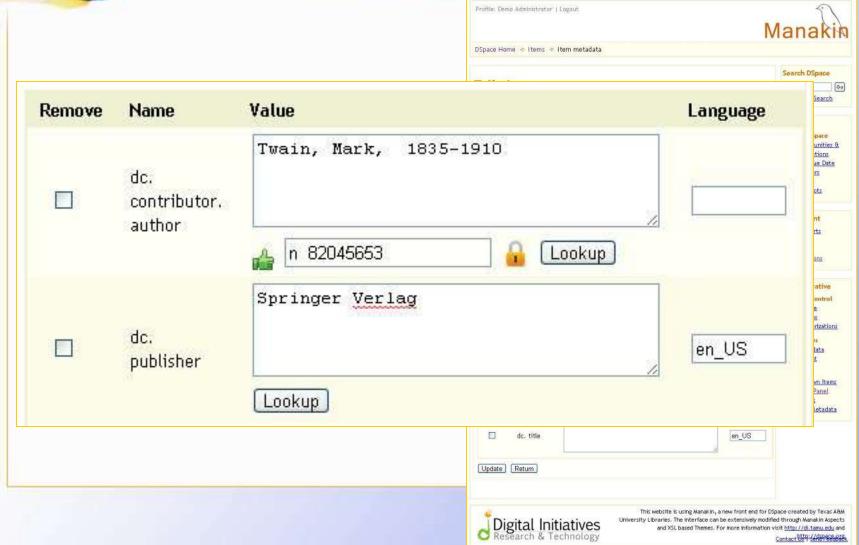


Authority Framework: UI conclusion

- For a short authority list a simple **html select** widget can be used
- The input facility is available also in the **edit item page**
- All the widgets are available in **both Uls**: JSPUI and XMLUI



Authority Framework: UI conclusion





Authority Framework: XML response

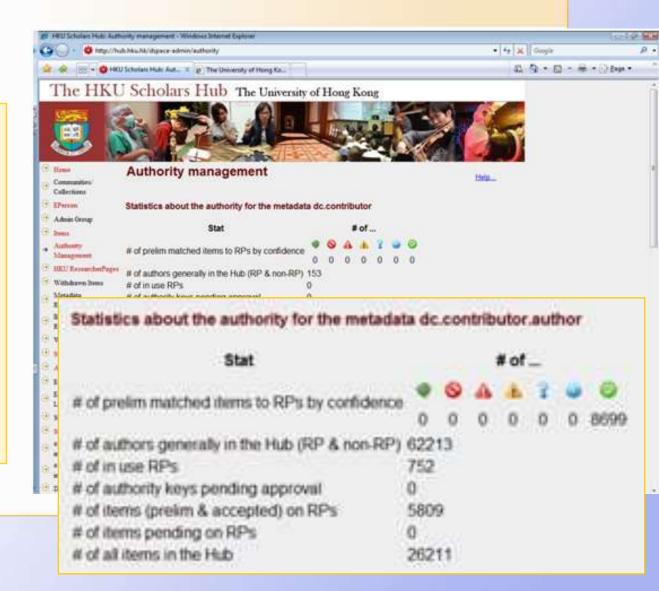
- The html widget are build on standard AJAX XML response
- Developers can easly extend or build new widget reusing existing infrastracture

```
<select xmlns="http://www.w3.org/1999/xhtml" start="0" total="6">
 <option authority="n 89103996" value="Clemens, Olivia Langdon, 1845-1904">
           Clemens, Olivia Langdon, 1845-1904
 </option>
 <option authority="n 93099439" value="Clemens, Samuel Langhorne, 1835-1910">
           Clemens, Samuel Langhorne, 1835-1910
  </option>
 <option authority="no2003079632" value="Conte, Louis de, 1835-1910">
           Conte, Louis de, 1835-1910
 </option>
 <option authority="n 93099461" value="Snodgrass, Quintus Curtius, 1835-1910">
           Snodgrass, Quintus Curtius, 1835-1910
 </option>
 <option authority="n 82045653" value="Twain, Mark, 1835-1910">
           Twain, Mark, 1835-1910
  </option>
 <option authority="n 79021164" value="Twain, Mark, 1835-1910">
           Twain, Mark, 1835-1910
 </option>
</select>
```



Keep the metadata clean

- New administrative tool to:
 - Check authority usage
 - Review, reject, or confirm automatic linkage
- Plan to release this functionality to the community after the HKU Scholars Hub migration to DSpace 1.6



The HKU Scholars Hub The University of Hong Kong



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Duplicated Titles in HKUTO

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Tentative matches for RP rp00857

Help...

RP Details

Label: He, Hongming Authority key: rp00857 Variants: He, Hongming; He, H; 何洪鳴; Department: Dept of Geography;

Researcher interests:

- 1. Climate change impacts on human demensions
- 2. Water resources sciences, specialized in hydrological modelling
- 3. Urbanization process
- 4. Environmental modelling

Items awaiting Accept/Reject

Confidence level: WUNCERTAIN

100	Title	Author(s)	Year
	Early Upregulation of Cyclooxygenase-2 in Human Papillomavirus Type 16 and Telomerase-induced Immortalization of Human Esophageal Epithelial Cells	Zhuang, Z; Tsao, GSW; Deng, W; Wang, J; Xia, HHX; He, H; Feng, H; Wang, L; Gu, Q; Lam, SK; Lin, MC; Kung, HF; Wong, BCY	2008 Edit Item
F 2	Generation of repetitive sequence-depleted microdissected chromosome arm painting probe	He, H; Huang, W; Guan, XY	1999 Edit Item
	Generation of repetitive sequence-depleted microdissected chromosome arm painting probe	He, H; Huang, W; Guan, XY	1999 Edit Item
1	nt Paint		

Next 1 Previous A Highlight all Match case

Previous return to the list



ResearcherPage tecnology

Mibernate & Hibernate Search

... some tricks/tips to use Spring DI in the Authority Plugin in the next slides



Integration authority framework to HUB

it.cilea.hku.authority.dspace.HKUAuthority
implements

ChoiceAuthority,
AuthorityVariantsSupport,
NotificableAuthority

Keep static references to the RP
"services" (persistence + search),
injected by Spring



Integration

- Dependencies Injection with Spring on classes managed by the DSpace plugin system needs a workaround :
 - Use static fields and semaphore/init method to assure proper initialization both in web and batch contexts (Our approach for the RP Project)
 - Expose and retrieve the Spring context as JMXBean: use the Spring API to retrieve dependencies (DSpace services approach)



Integration of RP presentation

- Servlet filter on the browse url to make HTTP redirect to the RP
 - No changes in dspace jsp tags
 - No changes in browse pages
 - Simple turnoff of ResearcherPage without loss of the metadata quality
 - Low overhead for no rp browsing
- Integration with the HKU SSO, the netID as bridge between DSpace Eperson & RPs



HKU Colleagues 港大同僚



CALCIOLO ALTE PRESTAZIONI TECNOLOGIE DELL'INFORMAZIONE E DELLA COMUNICAZIONE



Terima Kasih спасибо

謝謝您 감사합니다 cảm ơn bạn

Σε ευχαριστώ

有り難うございます Thank You Grazie

CRC CR





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