



Visualizing data

Violeta Ilik

Metadata Cataloging Librarian
Texas A&M University Libraries



Viewshare

open-source visualization platform

Viewshare – 3 use cases

- Collection ingested in XML (MODS) format
 - Scientific data set ingested as xsl file
 - Academic community data ingested xsl file
-

Texas A&M System - Board approved operating budgets

MARXML



MODS

MODS XML file

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  <languageTerm authority="iso639-2b" type="code">eng</languageTerm>
</language>
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  <extent>v. ; 28 cm.</extent>
</physicalDescription>
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<subject>
  <geographicCode authority="marcgac">n-us-tx</geographicCode>
</subject>
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  <name type="corporate">
    <namePart>Texas A & M University System.</namePart>
    <namePart>Health Science Center</namePart>
  </name>
  <topic>Appropriations and expenditures</topic>
  <genre>Statistics</genre>
  <genre>Periodicals</genre>
</subject>
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  <url displayLabel="electronic resource" usage="primary display">http://www.tamus.edu/offices/budget-acct/budget/operating/</url>
</location>
<identifier type="oclc">191063526</identifier>
<recordInfo>
  <descriptionStandard>aacr</descriptionStandard>
  <recordContentSource authority="marcorg">TXA</recordContentSource>
  <recordCreationDate encoding="marc">080123</recordCreationDate>
  <recordChangeDate encoding="iso8601">20130503114817</recordChangeDate>
```



Board approved operating budgets – Texas A&M University System

Academics

- Prairie View A&M University
- Tarleton State University
- Texas A&M International University
- Texas A&M University
- Texas A&M University at Galveston
- Texas A&M University-Central Texas
- Texas A&M University-Commerce
- Texas A&M University-Corpus Christi
- Texas A&M University-Kingsville
- Texas A&M University-San Antonio
- Texas A&M University-Texarkana
- West Texas A&M University

Health Science Center

- Texas A&M Health Science Center

Agencies

- Texas A&M AgriLife Research
- Texas A&M AgriLife Extension Service
- Texas A&M Forest Service
- Texas A&M Veterinary Medical Diagnostic Laboratory
- Texas A&M Engineering Experiment Station
- Texas A&M Engineering Extension Service
- Texas A&M Transportation Institute
- Office of Sponsored Research Services

System Offices

- System Offices

Present fields

Enabled	Field Name	Types	Value	1 of 13
<input checked="" type="checkbox"/>	subject-topic	text	Appropriations and expenditures	
<input checked="" type="checkbox"/>	recordContentSource	text	TXA	
<input checked="" type="checkbox"/>	recordCreationDate	text	080123	
<input checked="" type="checkbox"/>	title	text	Board approved operating budgets	
<input checked="" type="checkbox"/>	note	text	Report year ends Aug. 31.	
<input checked="" type="checkbox"/>	dateIssued	text	<ul style="list-style-type: none"> • 9999 • 2uuu 	
<input checked="" type="checkbox"/>	recordIdentifier	text	ocn191063526	
<input checked="" type="checkbox"/>	form	text	print	
<input checked="" type="checkbox"/>	issuance	text	serial	
<input checked="" type="checkbox"/>	extent	text	v. ; 28 cm.	
<input checked="" type="checkbox"/>	genre	text	statistics	
<input checked="" type="checkbox"/>	recordChangeDate	date/time	20130503114817	
<input checked="" type="checkbox"/>	publisher	text	Texas A & M University System, Office of Budgets and Accounting	

Present fields (cont.)

<input checked="" type="checkbox"/>	name	text	<ul style="list-style-type: none">• Texas A & M University System• Health Science Center.• Office of Budgets and Accounting.
<input checked="" type="checkbox"/>	language	text	eng
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<input checked="" type="checkbox"/>	descriptionStandard	text	aacr
<input checked="" type="checkbox"/>	typeOfResource	text	text
<input checked="" type="checkbox"/>	location-url-electronic-resource	URL	http://www.tamus.edu/offices/budget-acct/budget/operating/

List view by member institution

Engineering Extension Service

Board approved operating budgets [\(link\)](#)

dateIssued	<ul style="list-style-type: none">• 9999• 2uuu
descriptionStandard	aacr
extent	v. ; 28 cm.
form	print
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issuance	serial
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publisher	Texas A & M University System, Office of Budgets and Accounting
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recordContentSource	TXA

Ecoli data set

Study design: cross sectional study

cross-sectional studies involve data collected at a defined time - used to assess the prevalence of acute or chronic conditions, or to answer questions about the causes of disease or the results of medical intervention.

Ecoli visualization – raw data

A	B	C	D	E	F	G	H	I	J	K	L	M	N
year	e48c	farm_size	organic_fa	organic_d	certified_	faming_or	equipmer	number_c	have_tem	number_c	use_of_po	portable_	training_t
1	NA	1	0	888	888	0	1	1	1	NA	1	45.72	1
1	0	1	0	888	888	0	1	1	1	NA	1	45.72	1
1	0	1	0	888	888	0	1	1	1	NA	1	45.72	1
1	0	1	0	888	888	0	1	1	1	NA	1	45.72	1
1	0	1	0	888	888	0	1	1	1	NA	1	45.72	1
1	0	1	0	888	888	0	1	1	1	NA	1	45.72	1
1	0	1	0	888	888	0	1	1	1	NA	1	45.72	1
1	NA	1	0	888	888	0	1	1	1	NA	1	45.72	1
1	0	1	0	888	888	0	1	1	1	NA	1	45.72	1
1	0	1	0	888	888	0	1	1	1	NA	1	45.72	1
1	0	1	0	888	888	0	1	1	1	NA	1	45.72	1
1	0	1	0	888	888	0	1	1	1	NA	1	45.72	1
1	1	1	0	888	888	0	1	1	1	NA	1	45.72	1
1	NA	325	0	888	888	0	1	1.5	1	NA	1	45.72	1
1	1	325	0	888	888	0	1	1.5	1	NA	1	45.72	1
1	1	325	0	888	888	0	1	1.5	1	NA	1	45.72	1
1	0	325	0	888	888	0	1	1.5	1	NA	1	45.72	1
1	0	325	0	888	888	0	1	1.5	1	NA	1	45.72	1
1	0	325	0	888	888	0	1	1.5	1	NA	1	45.72	1
1	0	325	0	888	888	0	1	1.5	1	NA	1	45.72	1
1	NA	325	0	888	888	0	1	1.5	1	NA	1	45.72	1
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1	0	325	0	888	888	0	1	1.5	1	NA	1	45.72	1
1	0	325	0	888	888	0	1	1.5	1	NA	1	45.72	1

Ecoli visualization – human readable data

year	results	farm size	organic far	organic du	certified o	farming on	equipment	number of	have temp	number of	use of port	portable to	training to
2010	N/A	1 acre	No	N/A	N/A	No	Yes	1	Yes	N/A	Yes	45.72	Yes
2010	Negative	1 acre	No	N/A	N/A	No	Yes	1	Yes	N/A	Yes	45.72	Yes
2010	Negative	1 acre	No	N/A	N/A	No	Yes	1	Yes	N/A	Yes	45.72	Yes
2010	Negative	1 acre	No	N/A	N/A	No	Yes	1	Yes	N/A	Yes	45.72	Yes
2010	Negative	1 acre	No	N/A	N/A	No	Yes	1	Yes	N/A	Yes	45.72	Yes
2010	Negative	1 acre	No	N/A	N/A	No	Yes	1	Yes	N/A	Yes	45.72	Yes
2010	N/A	1 acre	No	N/A	N/A	No	Yes	1	Yes	N/A	Yes	45.72	Yes
2010	Negative	1 acre	No	N/A	N/A	No	Yes	1	Yes	N/A	Yes	45.72	Yes
2010	Negative	1 acre	No	N/A	N/A	No	Yes	1	Yes	N/A	Yes	45.72	Yes
2010	Negative	1 acre	No	N/A	N/A	No	Yes	1	Yes	N/A	Yes	45.72	Yes
2010	Positive	1 acre	No	N/A	N/A	No	Yes	1	Yes	N/A	Yes	45.72	Yes
2010	N/A	325 acres	No	N/A	N/A	No	Yes	1.5	Yes	N/A	Yes	45.72	Yes
2010	Positive	325 acres	No	N/A	N/A	No	Yes	1.5	Yes	N/A	Yes	45.72	Yes
2010	Positive	325 acres	No	N/A	N/A	No	Yes	1.5	Yes	N/A	Yes	45.72	Yes
2010	Negative	325 acres	No	N/A	N/A	No	Yes	1.5	Yes	N/A	Yes	45.72	Yes
2010	Negative	325 acres	No	N/A	N/A	No	Yes	1.5	Yes	N/A	Yes	45.72	Yes
2010	Negative	325 acres	No	N/A	N/A	No	Yes	1.5	Yes	N/A	Yes	45.72	Yes
2010	N/A	325 acres	No	N/A	N/A	No	Yes	1.5	Yes	N/A	Yes	45.72	Yes
2010	Negative	325 acres	No	N/A	N/A	No	Yes	1.5	Yes	N/A	Yes	45.72	Yes
2010	Negative	325 acres	No	N/A	N/A	No	Yes	1.5	Yes	N/A	Yes	45.72	Yes
2010	Negative	325 acres	No	N/A	N/A	No	Yes	1.5	Yes	N/A	Yes	45.72	Yes
2010	Negative	325 acres	No	N/A	N/A	No	Yes	1.5	Yes	N/A	Yes	45.72	Yes
2010	Negative	325 acres	No	N/A	N/A	No	Yes	1.5	Yes	N/A	Yes	45.72	Yes
2010	Negative	325 acres	No	N/A	N/A	No	Yes	1.5	Yes	N/A	Yes	45.72	Yes
2010	N/A	325 acres	No	N/A	N/A	No	Yes	1.5	Yes	N/A	Yes	45.72	Yes
2010	Negative	325 acres	No	N/A	N/A	No	Yes	1.5	Yes	N/A	Yes	45.72	Yes

Ecoli visualization – human readable data

	Variable 1	Variable 2	Description/Question	Type
Basic information				
year	year			1,2
e48c		e48c	Ecoil48_categorical	0 (No),1 (Yes)
Questionnaire A				
farm_size	a1		A.1.Size of farm: _____ Acres	Continuous
organic_farming	a2		A.2.Has the farm ever been organic?	0 (No),1 (Yes)
		a2f	From	1985, 2007, 2010
		a2t	To	2010, 2011
		a2national	National organic program certification	\$
		or	Organic farm (now)	0 (No),1 (Yes)
certified_organic_farming		or_cer	Certified	0 (No),1 (Yes)
	a3		A.3.What crops were grown on this farm in the previous 3 years	\$
	a4		A.4.What is your crop rotation cycle?	\$
faming_on_field_ever_used_for_grazing	a5		A.5.Was the field ever used for grazing?	0 (No),1 (Yes)
		a5f	From	-
		a5t	To	2010
equipment_ownership	a6		A.6.Do you own your own farm equipment for all operations?	0 (No),1 (Yes)
		a6b	Borrow	0 (No),1 (Yes)
		a6l	Lease/rent	0 (No),1 (Yes)
		a6o	owns (own some of farm equipments of operations)	0 (No),1 (Yes)
	a7		A.7.Do you clean farm equipment?	1 (Yes)
	a8		A.8.Do you have a staff year-round?	1 (Yes)
number_of_staff		a8n	number of staff	Continuous (11)
have_temporary_worker	a9		A.9.Do you have temporary workers?	0 (No),1 (Yes)

Ecoli visualization – Visualization of data set from a cross sectional study



Ecoli visualization



Visualization of data set from a cross sectional study

Created by [violeta](#) on April 20, 2013 and based on the [Ecoli visualization](#) data set.

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Search

Results

1 ☒

191 N/A ☐

892 Negative ☐

63 Positive ☒

Number of staff

8 1

7 1.5

10 2

1 2.5

1 3

3 4

2 7

Buffer zone

63 Yes

Farm size in acres

8 1

4 4

2 10

2 12

2 250

6 280

5 325

Terrain

43 flat

20 sloped

Irrigation method flood

40 No

23 Yes

Irrigation source municipal water

59 No

4 Yes

Irrigation source pond

61 No

2 Yes

Irrigation source river

51 No

12 Yes

Irrigation method overhead

23 No

40 Yes

Irrigation source well

16 No

47 Yes

Farm size

1 4 10 12 250 280 325 454.8 1000 1800 3000

Toilet distance



Ecoli visualization – Visualization of data set from a cross sectional study



Ecoli visualization

Visualization of data set from a cross sectional study

Created by [violeta](#) on April 20, 2013 and based on the [Ecoli visualization](#) data set.

[Inspect](#) | [Share](#) | [Edit](#)

Search

Results

1 ☒

33 N/A ☐
138 Negative ☐
27 Positive ☒

Number of staff

3 4
4 15
20 20

Buffer zone

27 Yes

Farm size in acres

27 1800

Terrain

7 flat
20 sloped

Irrigation method flood

24 No
3 Yes

Irrigation source municipal water

27 No

Irrigation source pond

27 No

Irrigation source river

24 No
3 Yes

Irrigation method overhead

3 No
24 Yes

Irrigation source well

3 No
24 Yes

Farm size

1 4 10 12 250 280 325 454.8 1000 1800 3000

Toilet distance





Visualizing academic communities

Dwight Look College of Engineering -
Department of Computer Science &
Engineering

Texas A&M Computer Science & Engineering– Visualizing academic community

Name	Research area	Research area Lexvo term	LC Subject headings	Additional appointment	Department page	Home page	ARN
Nancy Amato	Robotics	http://www.lexvo.org/pa	http://id.loc.gov/authorit	Institute for Applied Ma	http://www.cs.tamu.ed	https://parasol.tamu.edu/people/amato/	
Riccardo Bettati	Computer network protocols	http://www.lexvo.org/pa	http://id.loc.gov/authorit	Texas A&M University C	http://www.cs.tamu.ed	http://faculty.cse.tamu.edu/bettati/	
James Caverlee	Information retrieval	http://www.lexvo.org/pa	http://id.loc.gov/authorities/subjects/sh85066148		http://www.cs.tamu.ed	http://faculty.cse.tamu.edu/caverlee/	
Jinxiang Chai	Computer graphics	http://www.lexvo.org/pa	http://id.loc.gov/authorities/subjects/sh85029500		http://www.cs.tamu.ed	http://faculty.cse.tamu.edu/jchai/	
Jianer Chen	Computer graphics	http://www.lexvo.org/pa	http://id.loc.gov/authorities/subjects/sh85029500		http://www.cs.tamu.ed	http://faculty.cse.tamu.edu/chen/	
Yoonsuck Choe	Artificial intelligence	http://www.lexvo.org/pa	http://id.loc.gov/authorit	Texas A&M University S	http://www.cs.tamu.ed	http://faculty.cse.tamu.edu/choe/	
Gabriel Dos Reis	Programming languages	http://www.lexvo.org/pa	http://id.loc.gov/authorities/childrensSubjects/sj		http://www.cs.tamu.ed	http://www.axiomatics.org/~gdr/	
Richard Furuta	Digital libraries	http://www.lexvo.org/pa	http://id.loc.gov/authorit	Center for the Study of	http://www.cs.tamu.ed	http://www.csd.tamu.edu/	2533671
Guofei Gu	System security	http://www.lexvo.org/pa	http://id.loc.gov/authorities/subjects/sh9400127		http://www.cs.tamu.ed	http://faculty.cse.tamu.edu/guofei/	
Ricardo Gutierrez-Osuna	Face recognition	http://www.lexvo.org/pa	http://id.loc.gov/authorities/subjects/sh97003901		http://www.cs.tamu.ed	http://psi.cse.tamu.edu/people/ricardo-gut	
Tracy Anne Hammond	Artificial intelligence	http://www.lexvo.org/pa	http://id.loc.gov/authorities/subjects/sh85008180		http://www.cs.tamu.ed	http://faculty.cse.tamu.edu/hammond/	
Thomas R. Ioerger	Artificial intelligence	http://www.lexvo.org/pa	http://id.loc.gov/authorities/subjects/sh85008180		http://www.cs.tamu.ed	http://faculty.cse.tamu.edu/ioerger/	
Jaakko Järvi	Programming languages	http://www.lexvo.org/pa	http://id.loc.gov/authorities/childrensSubjects/sj		http://www.cs.tamu.ed	https://parasol.tamu.edu/~jarvi/	
Anxiao (Andrew) Jiang	Information theory	http://www.lexvo.org/pa	http://id.loc.gov/authorities/subjects/sh85066280		http://www.cs.tamu.ed	http://facultv.cse.tamu.edu/aiiane/	

Texas A&M Computer Science & Engineering- Visualization of academic community

Enabled	Field Name	Types	Value	1 of 37	 
<input checked="" type="checkbox"/>	Research area Lexvo term	URL	http://www.lexvo.org/page/term/eng/robotics		
<input checked="" type="checkbox"/>	Dwight Look College of Engineering	text	Dwight Look College of Engineering		
<input checked="" type="checkbox"/>	Department	text	Computer Science and Engineering		
<input checked="" type="checkbox"/>	Department page	URL	http://www.cs.tamu.edu/people/faculty/amato		
<input checked="" type="checkbox"/>	PhD date	date/time	1995		
<input checked="" type="checkbox"/>	PhD location	location	40.091022,-88.229992		
<input checked="" type="checkbox"/>	Home page	URL	https://parasol.tamu.edu/people/amato/		
<input checked="" type="checkbox"/>	LC Subject headings	URL	http://id.loc.gov/authorities/subjects/sh85114628.html#concept		
<input checked="" type="checkbox"/>	Research area	text	Robotics		
<input checked="" type="checkbox"/>	Name	text	Nancy Amato		
<input checked="" type="checkbox"/>	PhD granting institution	text	University of Illinois at Urbana-Champaign		
<input checked="" type="checkbox"/>	Master granting institution	text	University of California, Berkeley		
<input checked="" type="checkbox"/>	Hire date	text	1995		
<input checked="" type="checkbox"/>	Additional appointment	text	Institute for Applied Mathematics and Computational Science		
<input checked="" type="checkbox"/>	Bachelor granting institution	text	Stanford University		
<input checked="" type="checkbox"/>	VIAF	URL	No Value		

Texas A&M Computer Science & Engineering– Visualization of academic community



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Welcome, violeta

Users

Data

Views



Computer Science & Engineering



Created by [violeta](#) on May 3, 2013 and based on the [Computer Science & Engineering](#) data set.

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Research area

Artificial intelligence Bioinformatics C++ Combinatorial optimization Computer architecture Computer graphics Computer network protocols Computing Digital libraries Distributed computing Embedded systems Face recognition High performance computing Hypertext Information retrieval Information theory Integrated circuits Peer-to-peer networks Programming languages Robotics System security Visualization

Search

Research area

- 4 Artificial intelligence
- 2 Bioinformatics
- 1 C++
- 1 Combinatorial optimization
- 2 Computer architecture
- 3 Computer graphics

Name

- 1 Andreas Klappenecker
- 1 Andruud Kerne
- 1 Anxiao (Andrew) Jiang
- 1 Bjarne Stroustrup
- 1 Daniel A. Jimenez
- 1 Dezhen Song
- 1 Dmitri Loguinov

[RESEARCH AREA LIST](#) • [PHD DATE LIST](#) • [PIE CHART](#) • [MAP](#) • [TIMELINE](#) • [PHD GALLERY](#) • [RESEARCH AREA GALLERY](#)

Texas A&M Computer Science & Engineering

Artificial intelligence

Yoonsuck Choe ([link](#))

Additional appointment Texas A&M University System Health Science Center

ARN

Bachelor granting institution Yonsei University

Department Computer Science and Engineering

Department page <http://www.cs.tamu.edu/people/faculty/choe>

Dwight Look College of Engineering Dwight Look College of Engineering

Hire date 2001

Home page <http://faculty.cse.tamu.edu/choe/>

Image



LC Subject headings <http://id.loc.gov/authorities/subjects/sh85008180.html>

Master granting institution University of Texas at Austin

Name Yoonsuck Choe

PhD date Mon, Jan 1, 2001, 01:00 am

PhD granting institution University of Texas at Austin

Library of Congress Subject Headings – research area

Details

Visualization


Suggest Terminology

Artificial intelligence

URI(s)

- > <http://id.loc.gov/authorities/subjects/sh85008180>
- > info:lc/authorities/sh85008180
- > <http://id.loc.gov/authorities/sh85008180#concept>

Instance Of

- > [MADS/RDF Topic](#)
- > [MADS/RDF Authority](#)
- > [SKOS Concept](#) 

Scheme Membership(s)

- > [Library of Congress Subject Headings](#)

Collection Membership(s)

- > [LCSH Collection - Authorized Headings](#)
- > [LCSH Collection - General Collection](#)

Variants

- >  AI (Artificial intelligence)
- >  Artificial thinking
- >  Electronic brains
- >  Intellectronics
- >  Intelligence, Artificial
- >  Intelligent machines
- >  Machine intelligence
- >  Thinking, Artificial

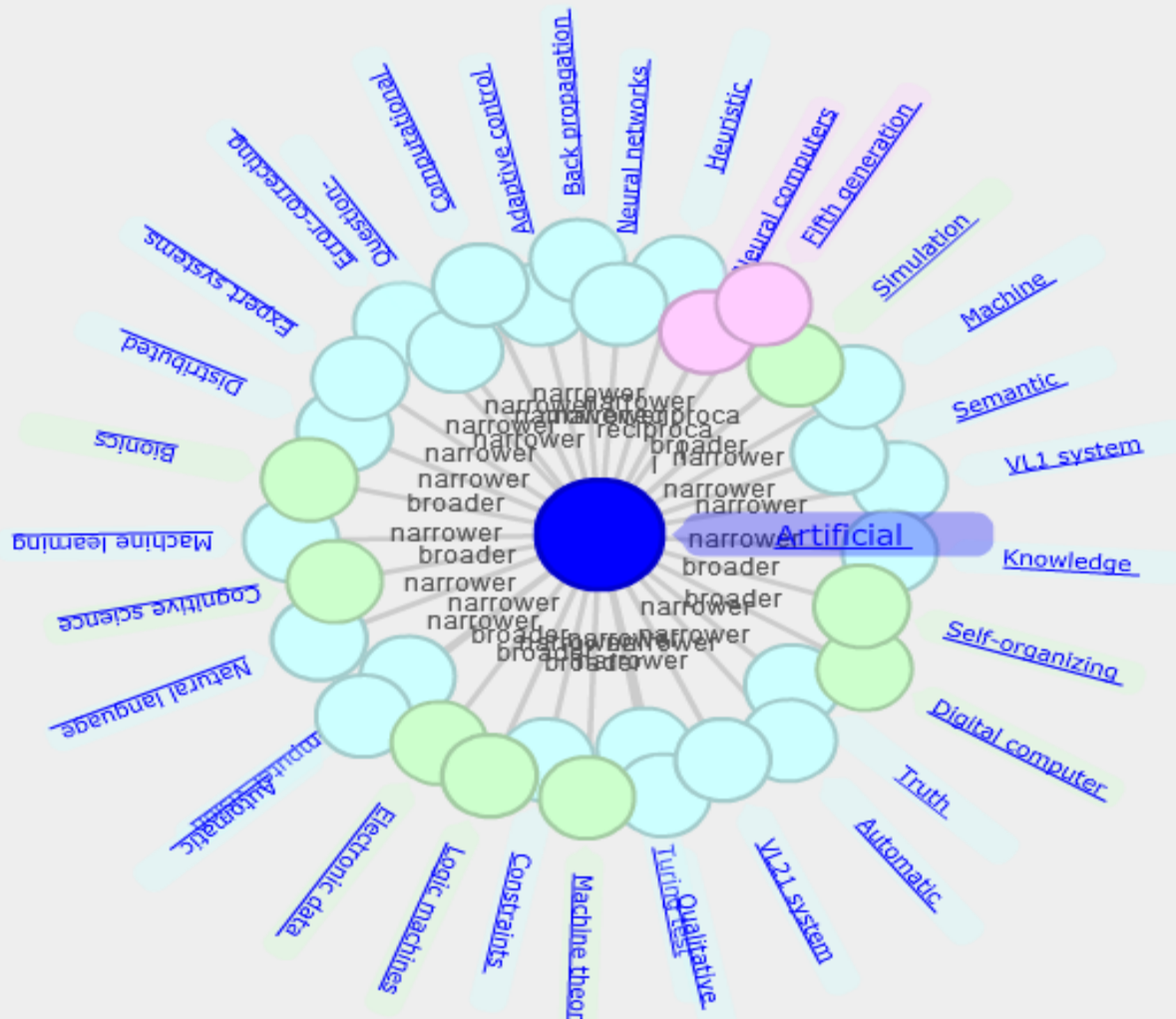
Broader Terms

Library of Congress Subject Headings

Details

Visualization

Suggest Terminology



Lexvo term

Resource: term/eng/artificial%20intelligence

This [Lexvo.org](http://lexvo.org) page describes the entity referred to by the URI <http://lexvo.org/id/term/eng/artificial%20intelligence>. A machine-readable RDF version of this description

rdf:type	lvont:Term
lvont:language	lexvo:iso639-3/eng
skosxl:literalForm	artificial intelligence ('en' language string)
rdfs:seeAlso	http://en.wiktionary.org/wiki/artificial_intelligence
lvont:means	http://eurovoc.europa.eu/3030
lvont:means	lexvo:wordnet/30/noun/artificial_intelligence_1_09_00
lvont:means	http://sw.opencyc.org/2009/04/07/concept/en/ArtificialIntelligence
lvont:means	http://www.fao.org/aims/aos/agrovoc/c_27064
lvont:means	http://www.nlm.nih.gov/mesh/2006#D001185
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lvont:translation	lexvo:term/ben/%E0%A6%95%E0%A7%83%E0%A6%A4%E0%A7%8D%E0%A6%B0%E0%A6%BF%E0%A6%AE%20%E0%A6%AC%E0%A7%81%E0%A6%AE%E0%A6%A4%E0%A7%8D%E0%A6%A4%E0%A6%BE
lvont:translation	lexvo:term/ces/um%C4%9Bl%C3%A1%20intelligence
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lvont:translation	lexvo:term/ell/%CF%84%CE%B5%CF%87%CE%BD%CE%B7%CF%84%CE%AE%20%CE%BD%CE%BF%CE%B7%CE%BC%CE%BF%CF%83%CF%84
lvont:translation	lexvo:term/eng/AI
lvont:translation	lexvo:term/fin/%C3%A4ly
lvont:translation	lexvo:term/fin/keino%C3%A4ly
lvont:translation	lexvo:term/fin/teko%C3%A4ly
lvont:translation	lexvo:term/fra/intelligence%20artificielle

EuroVoc



EuroVoc Multilingual Thesaurus of the European Union

Europa > EuroVoc homepage > Domains and MT > artificial intelligence

Content language:

(en) English

Simple search

▪ Advanced search

Browse

▪ Browse the subject-oriented version

Download

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- Multilingual list
- Alphabetical index
- SKOS/XML

Your proposals

- Contribute
- New approved concepts

artificial intelligence

UF *expert system*

32 EDUCATION AND COMMUNICATIONS

MT 3231 information and information processing

BT1 information processing

RT cybernetics [3606]
robotics [3236]

LANGUAGE EQUIVALENTS

BG	изкуствен интелект
ES	inteligencia artificial
CS	umělá inteligence
DA	kunstig intelligens
DE	künstliche Intelligenz
ET	tehisintellekt
EL	τεχνητή νοημοσύνη
EN	artificial intelligence
FR	intelligence artificielle
IT	intelligenza artificiale
LV	mākslīgais intelekts
LT	dirbtinis intelektas
HU	mesterséges intelligencia
MT	artificial intelligence (<i>under translation</i>)
NL	kunstmatige intelligentie
PL	sztuczna inteligencja
PT	inteligência artificial
RO	inteligență artificială
SK	umelá inteligencia
SL	umetna inteligenca
FI	tekoäly
SV	artificiell intelligens
HR	umjetna inteligencija
SR	вештачка интелигенција

AGROVOC Thesaurus



Artificial intelligence

at AGROVOC Thesaurus

http://aims.fao.org/aos/agrovoc/c_27064

Property

altLabel

Value

- AI (zh)
- AI (artificial intelligence) (de)
- AI (artificial intelligence) (en)
- AI (mesterséges intelligencia) (hu)
- IA (inteligencia artificial) (es)
- IA (inteligência artificial) (pt)
- IA (intelligence artificielle) (fr)
- IA (intelligenza artificiale) (it)
- KI (Künstliche Intelligenz) (de)
- Künstliche Intelligenz (de)
- UI (umělá inteligence) (cs)
- Urządzenia cybernetyczne (pl)
- YZ (yapay zeka) (tr)
- آ.إ. (هوش مصنوعی) (fa)
- ए०आई०ए (कृत्रिमबुद्धिकता) (hi)
- เอไอ (ปัญญาประดิษฐ์) (th)
- ce:io (lo)
- 人工知能、人工頭腦 (ja)
- 인공지능 (ko)

broader

- <http://aims.fao.org/aos/agrovoc/c_27769>

closeMatch

- <http://dbpedia.org/resource/Artificial_intelligence>

created

- 2011-11-20T21:13:36Z (dateTime)

exactMatch

- <http://aims.fao.org/aos/asfa/c_4093>

exactMatch

- <<http://dewey.info/class/6.3/>>
- <<http://eurovoc.europa.eu/3030>>
- <<http://lod.gesis.org/thesoz/concept/10043031>>
- <<http://stitch.cs.vu.nl/vocabularies/rameau/ark:/12148/cb11932084t>>
- <http://www.caas.net.cn/caas/cat/c_37580>
- <<http://zbw.eu/stw/descriptor/15611-3>>

DBpedia

About: Artificial intelligence

An Entity of Type : [Thing](#), from Named Graph : <http://dbpedia.org>, within Data Space : [dbpedia.org](#)



Artificial intelligence (AI) is the intelligence of machines and the branch of computer science that aims to create it. AI textbooks define the field as "the study and design of intelligent agents" where an intelligent agent is a system that perceives its environment and takes actions that maximize its chances of success. John McCarthy, who coined the term in 1955, defines it as "the science and engineering of making intelligent machines."

Property	Value
dbpedia-owl:abstract	<ul style="list-style-type: none">La intel·ligència artificial (IA) és una part de la informàtica, dedicada al desenvolupament d'algorismes que permet a una màquina prendre decisions intel·ligents o, si més no, comportar-se com si tingués una intel·ligència semblant a la humana. Determinar si un ordinador realment es comporta de manera intel·ligent és complex. Hi ha moltes definicions de què és exactament la intel·ligència artificial. La més estesa és la de John McCarthy, que afirma que "és fer que una màquina es comporti d'una manera que seria considerada intel·ligent en un humà." Es considera l'avi de la intel·ligència artificial al britànic Alan Turing que, al llarg de la Segona Guerra Mundial i sota els auspicis del servei d'intel·ligència britànic, va començar a fonamentar les bases del que avui coneixem com a intel·ligència artificial. Existeixen diferents tipus de coneixement i mitjans de representació del coneixement. El qual pot ser carregat en l'agent pel seu dissenyador o pot ser après pel mateix agent utilitzant tècniques d'aprenentatge. També es distingeixen diversos tipus de processos vàlids per obtenir resultats racionals, que determinen el tipus de agent intel·ligent. De més simples a més complexos, els cinc principals tipus de processos són: Execució d'una resposta per defecte per cada entrada (anàlogues a actes reflexos en éssers vius). Recerca de l'estat requerit en el conjunt dels estats produïts per les accions possibles. Algorismes genètics (Anàleg al procés d'evolució de les cadenes d'ADN). Xarxes neuronals artificials (Anàleg al funcionament físic del cervell d'animals i humans). Raonament mitjançant una Lògica formal (Anàleg al pensament abstracte humà). També existeixen diferents tipus de percepcions i accions, poden ser obtingudes i produïdes, respectivament per sensors físics i sensors mecànics en màquines, polsos elèctrics o òptics en computadores, tant com per entrades i sortides de bits d'un programari i el seu entorn programari. Diversos exemples es troben en l'àrea de control de sistemes, planificació automàtica, l'habilitat de respondre a diagnòstics i a consultes dels consumidors, reconeixement d'escriptura, reconeixement de la parla i reconeixement de patrons. Els sistemes de intel·ligència artificial actualment són part de la rutina en camps com economia, medicina, enginyeria i la milícia, i s'ha usat en gran varietat d'aplicacions de programari, jocs d'estratègia com escacs d'ordinador i altres videojocs.Umělá inteligence je obor informatiky zabývající se tvorbou strojů vykazujících známky inteligentního chování. Definice pojmu „inteligentní chování“ je stále předmětem diskuse, nejčastěji se jako etalon inteligence užívá lidský rozum. S tímto pojmem poprvé přišel John McCarthy v roce 1955.Künstliche Intelligenz (KI, englisch artificial intelligence, AI) ist ein Teilgebiet der Informatik, welches sich mit der Automatisierung intelligenten Verhaltens befasst. Der Begriff ist insofern nicht eindeutig abgrenzbar, da es bereits an einer genauen Definition von Intelligenz mangelt. Dennoch findet er in Forschung und Entwicklung Anwendung. Im Allgemeinen bezeichnet „künstliche Intelligenz“ oder „KI“ den Versuch, eine menschenähnliche Intelligenz nachzubilden, d. h., einen Computer zu bauen oder so zu programmieren, dass dieser eigenständig Probleme bearbeiten kann. Oftmals wird damit aber auch eine effektiv nachgeahmte, vorgetäuschte Intelligenz bezeichnet, insbesondere bei Computerspielen, die durch meist einfache Algorithmen ein intelligentes Verhalten simulieren soll.

DBpedia

About: Alan Turing Year

An Entity of Type : [International observances](#), from Named Graph : <http://dbpedia.org>, within Data Space : [dbpedia.org](#)



The Alan Turing Year 2012 marks the celebration of the life and scientific influence of Alan Turing on the occasion of the centenary of his birth on 23 June 1912. Turing had an important influence on computing, computer science, artificial intelligence, developmental biology, and the mathematical theory of computability and made important contributions to code-breaking during the Second World War.

Property	Value
dbpedia-owl:abstract	<ul style="list-style-type: none">The Alan Turing Year 2012 marks the celebration of the life and scientific influence of Alan Turing on the occasion of the centenary of his birth on 23 June 1912. Turing had an important influence on computing, computer science, artificial intelligence, developmental biology, and the mathematical theory of computability and made important contributions to code-breaking during the Second World War. The international impact of Turing's work is reflected in the growing list of countries planning Alan Turing Year celebrations, including: Brazil, Canada, China, Czech Republic, France, Germany, India, Israel, Italy, Netherlands, New Zealand, Norway, Philippines, Portugal, Spain, Switzerland, U.K. and the U.S.A.
dbpedia-owl:wikiPageExternalLink	<ul style="list-style-type: none">http://www.turingcentenary.eu/http://cs.swan.ac.uk/cie12/https://sites.google.com/site/turingcentenarybangalore/
dbpprop:abbreviation	<ul style="list-style-type: none">ATY
dbpprop:country	<ul style="list-style-type: none">TCAC
dbpprop:discipline	<ul style="list-style-type: none">dbpedia:Psychologydbpedia:Cognitive_sciencedbpedia:Computingdbpedia:Computer_sciencedbpedia:Developmental_biologydbpedia:Mathematicsdbpedia:Philosophy_of_minddbpedia:Artificial_intelligencedbpedia:Cryptography
dbpprop:hasPhotoCollection	<ul style="list-style-type: none">http://www4.wiwiw.fu-berlin.de/flickrwrappr/photos/Alan_Turing_Year
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dbpprop:wikiPageUsesTemplate	<ul style="list-style-type: none">dbpedia:Template:Infobox_academic_conference
dcterms:subject	<ul style="list-style-type: none">category:Mathematics_conferencescategory:Science_and_technology_in_Europecategory:2012_in_sciencecategory:Philosophy_events

Virtual International Authority File



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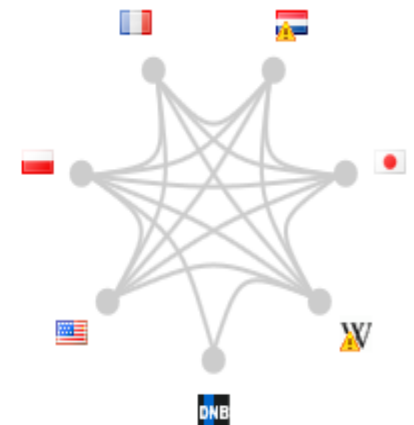
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Permalink: <http://viaf.org/viaf/22176466>

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Visualizing data

- Data Integration: Importing Data from External Systems
 - Integrating and harvesting multiple data sources with symplectic elements
 - Customizing visualization platforms to meet (y)our needs
-

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Primary Email



sunic@math.tamu.edu



Additional Emails +

Phone +

Web Pages

- [Zoran Sunic](#)
[Department of](#)
[Mathematics](#)

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Šunić, Zoran 

Preferred Title

Associate Professor 

Positions +

➤ Associate Professor, [Department of Mathematics](#) 2003 – 

Overview +

Research Areas

[Combinatorial group theory](#) | [Combinatorics](#) | [Geometric group theory](#)

Lessons learned

“Progress toward better data integration will happen through use of the key piece of technology that made the World Wide Web so successful: **the link**”

Sir Tim Berners-Lee

Thank you

Violeta Ilik
Metadata Cataloging Librarian
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