

Knowledge Exchange and Terminology Interchange: The Role of Standards

Translating and the Computer 24 22 November 2002 *Lee Gillam*



• Represented BSI on subcommittee 3 (SC3) as a Principal UK Expert and headed the UK delegation to SC4.

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Computer vs Human

The Department of Computing offers degrees at undergraduate and postgraduate levels. These courses are designed both to equip students for challenging position the real world, and prepare them to pursue fr studies. Taught modules are in Com ne innovative areas of Information Systems a

..... ne option of taking a protessional training year, which is accepted as a first step towards meer (CEng) status.

Research

In addition et

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• <u>People</u>

• <u>UCAS</u>

• Events

Opportunities

Short Courses

Laptop Scheme

Electronics and

Physical Sciences







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Introduction to Standards

The Department of Computing offers degrees at undergraduate and postgraduate levels. These courses are designed

Why bother?

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- both to equip students for challenging positions in the real world, and prepare them to pursue further postgraduate Shared understanding; "here a so in the second and states and Web Technologies.
- Documentation
- In addition students have the option of taking a professional training year, which is accepted as a first step towards Standards drafted by combittees of experts

Short Courses

People

• UCAS

Types

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- Research
- Industry, e.g. 802.11a
- International, e.g. BS5750, precurs of the two sectors of two secto
- Others? XML is not (yet) a standard specification/recommendation

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Introduction to Standards

- What are standards for?
 - **ISO9000**

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- International Standards for Quality management systems Chartered Engineer (CEng) status.
- ISO3166/ISO 639
 - Country Codes/Language Codes Short Courses Research

People

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- **BS1363**
 - Specification for 13 A fused plugs and switched and unswitched socket-outlets

Systems. Together they combine to cover the wide spectrum of computing research. The department is part of the RAE 5° School of

- BS5987 and BS6008
 - Methods for Sampling tea and Method for Preparation of a liquor of tea for use in sensory tests (ISO1839 equivalent – Methods for sampling tea)

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Introduction to Standards

• Why do we need a 'protocolle and protocolle and protocole and protocolle and protocolle and pr

People

- Which wire is which ?des Works Ware to Be and Web Technologies.
- What do the symbols mean? Maximum rating of plugs for devices
- "Marking BS 1363 on of the relation to a product is a claim by the manufacturer that the product has been manufactured in accordance with the requirements of the standard."
- "Socket-outlets shall be so constructed that when inserting the plug, the earth connection is made before the current carrying pins of the plug become live. When withdrawing the plug, the currentcarrying parts shall separate before the earth contact is broken.





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Introduction to Standards

• Tea?



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People

• <u>UCAS</u>

The Department of Computing offers degrees at undegraduate and postgraduate levels. These courses are designed both to equip students for challenging positions filter that world, and prepare them to pursue further postgraduate volues are in Computing and them to are access of information systems and Web Technologies. tea leaf from which liquor has been prepared share the option of taking a processional traffic year with the teap, trade in the United Kingdom, the term "infusion" is used with the meaning of 2.2, but, to avoid confusion with the more general usage of this word, the expression

Fill the pot containing the tea with freshly expanded computes were bound for the bound of the second secon

"infused leaf" has been used.



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"Kangaroo"

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• Kangaroo (appaurently rise equations in the real world, and prepare them to pursue further postgraduate levels. These courses are designed world and prepare them to pursue further postgraduate levels. These courses are designed to the second sec

People

- Western 'settlers' in Australia asked aborigine what the strange in definition of taking a professional training year, which is accepted as a first step towards
- Aborigine repⁱfted "I don t understand you (mate)"







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Introduction to Standards

** secure the build of the postgraduate and postgraduate levels. These courses are designed born by success and postgraduate levels. These courses are designed born by success are designed by success are studies. Taught modules are in Computing and the innovative areas of Information Systems and Web Technologies.

- The Air Force will babtain a long-term In addition students have the option of taking a professional training year, which is accepted as a first step towards lease. Chartered Engineer (CEng) status. Opportunities
- The Army will clear the building and Research rf Courses lock the doors and windows.

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facility.



 Laptop Scheme The department of Computing has two major research centres, the <u>Centre for Kgowledge Management</u> and the <u>Centre for Software</u> The Navy will cordon and blockade the ends spectrum of computing re Grid Computing Electronics, Computing and Mathematics.

002 Mark Maybury, MITRE

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The Marines will assault with heavy fire.

\$









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Introduction to Standards

- Why are we interpretence of the prested of the pr
 - Interoperability / hortes Unteroperability / hortes Web Technologies.
- What are the benefits address the option of taking a professional training year, which is accepted as a first step towards
 - Common reference sets
 - Know what others are an an and a coding
 - Consider languages and their codes The department of Computing has two major research centres, the <u>Centre for Knowledge Management</u> and the <u>Centre for Software</u>
- Where are they?

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- Standards are specifications for machine' (conform) or 'people'

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Sustems. Together they combine to cover the wide spectrum of computing research. The department is part of the RAE 5° School of







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ISO TC37

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- International Standards Organization
- Technical Committee addition students have the option of taking a professional training year, which is accepted as a first step towards
- TC consists (now) of 4 subcommittees

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- Majority of work in \$203 "Computer Applications in Terminology 'Lato Stere The department of Computing has two major research centres, the <u>Centre for Knowledge Management</u> and the <u>Centre for Software</u>
- Contributions to SC1 and SC2, and initiation of new est SC4 British Standards Institution (BSI) has a shadow committee of $TC37 - TS/1 | \cdot EUCh Framework$





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Introduction to Standards

Standards OF
 BS EN 13622;2002, Gas welding of executions in the real world and prepare them to pursue further postgraduate
 Terminology – Terms used for gas welding of execution and performance in the security of the

2.3.3 blowing off the flame the detachment of the flame from the blowpipe nozzle. This may cause the flame to be extinguished

2.3.4 blowpipe with multiple flow rates a blowpipe giving a range of flow rates corresponding to a series of nozzles

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2.3.5 blowpipe with multiple flow rates adjusted by means of gas control valves a blowpipe with multiple flow which are varied by mans of the adjustment valves

2.3.6 blowpipe with a variable injector

a blowpipe with multiple flow rates which are varied by means of a device for adjustment of the injector cross-section

2.3.7 blowpipe with a fixed mixer a blowpipe with multiple flow rates which are varied by adjusting the feed pressures

décollement de flamme

détachement de la flamme de la buse du chalumeau, pouvant conduire à l'extinction de la flamme

chalumeau à débits multiples

chalumeau donnant une gamme de débits correspondant à une série de buses

chalumeau à débits multiples réglés par des robinets d'admission

chalumeau à débits multiples dans lequel la variation du débit est obtenue par réglage des robinets d'admission

chalumeau à débits multiples par réglage de l'injecteur chalumeau à aiguille

chalumeau à débits multiples dans lequel la variation du débit est obtenue par un dispositif de réglage de la section de l'injecteur

chalumeau à mélangeur fixe

chalumeau à débits multiples dans lequel la variation du débit est obtenue par réglage des pressions d'alimentation



Abheben der Flamme

das Abwandern der Flamme weg vom Brennerkopf. Dies kann zum Erlöschen der Flamme führen

Brenner mit vielfachen Durchflussmengen

ein Brenner mit einer Anzahl verschiedener Durchflussmengen entsprechend einer Anzahl von Düsen

Brenner mit vielfachen Durchflussmengen, einstellbar mit Dosierventilen

ein Brenner mit vielfachen Durchflussmengen, die durch Einstellen von Dosierventilen verändert werden

Brenner mit verstellbarem Injektor

ein Brenner mit vielfachen Durchflussmengen, die durch Einstellung der Drücke verändert werden

Brenner mit festeingestelltem Mischer

ein Brenner mit vielfachen Durchflussmengen, die durch Einstellung der Drücke verändert werden



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Introduction to Standards

• BS ISO 6348:1980

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Textiles – **Determination of mass** – **Vocabulary**

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1 SCOPE AND FIELD OF APPLICATION

This International Standard defines the principal terms relating to the quantification of the mass of water and extractable matter contained in a textile material. The terms defined in this International Standard may be used in the determination of the commercial mass of a consignment textile material, in the determination of linear, area and volume densities of textile materials and in the determination of the composition by mass of the different components of a mixture of textile fibres.

2 TERMS AND DEFINITIONS

2.1 Properties of materials

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2.1.1 moisture content : The mass of water in any form in a material, determined using prescribed methods and expressed as a percentage of the mass of the moist material.

2.1.2 moisture regain : The mass of water in any form in a material, determined using prescribed methods and expressed

2.2 Agreed general values

2.2.1 conventional moisture regain: The agreed value applying to a defined material, which is used to represent the mass of water in any form which that material contains when, after preconditioning, it comes into equilibrium with the standard atmosphere. It is expressed as a percentage of the mass of the dried material.

2.3 Commercial values

2.3.1 commercial moisture regain*: The agreed value to be added to the mass of a defined material (after drying it using prescribed methods) in order to obtain its commercial mass, linear density or mass per unit area. It is expressed as a percentage of the mass of the dried material.

2.3.2 commercial allowance*: The agreed value to be added to the mass of a defined material (after extracting and drying it using prescribed methods) in order to obtain its commercial mass, linear density or mass per unit area. It is expressed as a percentage of the mass of the extracted and dried material.



e <u>Centre for Software</u> the RAE 5* School of





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Introduction to Standards

5.23

point of impact (deprecated)

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site of impact not precisely defined

5.23.1

initial point of impact

point in time and in the site coordinate system where the vehicles or objects begin to touch or interact without significant force

NOTE The initial point of impact is the start of the impact phase.

5.23.2

point of maximum impact

point in time and in the site coordinate system where the maximum forces have acted $% \left({{{\left[{{{\rm{s}}} \right]}}_{\rm{s}}}_{\rm{s}}} \right)$

5.23.3

non-central impact

eccentric impact

impact in which the impulse vector does not pass through the CG at the point of maximum impact

NOTE The CG can move during the impact phase.

5.23

point de choc (expression à éviter)

site de choc qui n'est pas défini avec précision

5.23.1

point initial de choc

point dans le temps et dans le système de coordonnées du site où les véhicules/objets commencent à se toucher ou à agir les uns sur les autres sans force significative

NOTE Le point initial de choc est le début de la phase de choc.

5.23.2

point de choc maximum

point dans le temps et dans le système de coordonnées du site où les forces maximales ont agi

5.23.3

choc non central choc excentré

choc dans lequel le vecteur d'impulsion ne passe pas par le CG au point de choc maximum

NOTE Le CG peut se déplacer pendant la phase de choc.





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Introduction to Standards

Glossary of terms, Kas Voca biological are interested and postgraduate levels. These courses are designed

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- BS ISO 12353-1:2002 Road we have have a solution tanalysis.
- Vocabulary, English and French BS ISO 6348:1980 Textiles (Determination of mass. Vocabulary, English only
- BS EN 13622:2002 Gas Welding equipment. Terminology. Terms used for gas welding equipment, English, French and German
- BS 1051:1992, ISO 6348 980 Gilossany of termismelating the mass determination of textiles, English only
- 'Standards and their Terminology' seems to be needed!







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- ISO TG37 Standards People
- Peer Review

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Academic

- The Department of Computing offers degrees at undergraduate and postgraduate levels. These courses are designed both to equip students for challenging positions in the real world, and prepare them to pursue further postgraduate studies. Taught modules are in Computing and the innovative areas of Information Systems and Web Technologies.
- Prof Dr Kiyong Lee & Prof Key-Sun Choi, KAIST
- Prof Dr Klaus-Dirk Schurther the the professional training year, which is accepted as a first step towards
- Prof Alan Merby, ANSI & Prof Nancy Ide, ANSI
- Laurent Romary & André LeMeur, AFNOR
-
- Industrial

- The department of Computing has two major research centres, the <u>Centre for Knowledge Management</u> and the <u>Centre for Software</u>
- Binke Fiedler (Daimler Chiny Sterry non Drewende spectrum of computing research. The department is part of the RAE 5' School of
- Robin Lombard (Microsoft), ANSI & Jennifer De Camp (Mitre), ANSI
- Kara Warburton (IBM), SCC

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TG37 Standards

Terminology and other languare and the standard and postgraduate levels. These courses are designed

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- ISO 639:1988 Code for the representation of mannes of management of the second
- TC 37/SC 1

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- studies. Taucht modules are in Computing and the innovative areas of Information Systems and Web Technologies. ISO 704:2000 Terminology work -- Principles and methods
- ISO 860:1996 Terminology work -- Harmonization of concepts and terms
- ISO 1087-1:2000 Terminology work WHAN beau and when the one and an plication.
- TC 37/SC 2 Chartered Engineer (CEng) status.
 - ISO 639-2:1998 Codes for the representation of names of languages -- Part 2: Alpha-3 code
 - ISO 1951:1997 Lexicographical symbols and typographical conventions for use interminography
 - ISO 10241:1992 International ternational ternation and layout
 - ISO 12199:2000 Alphabetical ordering of multilingual terminological and lexicographical data represented in the Latin alphabet
 - ISO 12616:2002 Tranglation oriented te what make the short of the store of the stor
 - ISO 15188:2001 Project management guide in the interview of the interview
- TC 37/SC 3

 - ISO 1087-2:2000 Terminology work Vocabulary -- Part 2: Computer applications ISO 6156:1987 Magnetic tape exchange format for terminological/ lexicographical records (MATER)
 - ISO 12200:1999 Computer applications in terminology -- Machine-readable terminology interchange format (MARTIF) -- Negotiated interchange
 - ISO/TR 12618:1994 Computational aids in terminology -- Creation and use of terminological databases and text corpora
 - ISO 12620:1999 Computer application terminology -- Data categories



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Recent Work - ISO 12620

- Data Category, Registerers for the Department of Computing offers degrees at undergraduate and postgraduate levels. These courses are designed point 3
 - "Each data category specification consists of a set of attributes designed to uniquely identify and define that data category and to provide data modeling information for that data category, along with useful examples and tips on using individual data categories

Jabases or för structural relations with system and message elements.	Engineer (CEng) ste	hun	
e Annes A for examples	Eligineei (oElig) si		term
	-	DC ID	ISO12620A-01
Definition (6.2.1) [1:1 0:1/ Comments (8.5.4)	h	DC Name	term
Representation category (6.4.1) (6.4.1) (Besponsible provided from 1	11	DC	A verbal designation of a general concept in a specific subject field.
(8.4.2) (6.6.1) (6.6.1)	-	Definition	
Maximum size of DE values (6.4.4)	The department	PGA puting has two r	Forsetering high of melated terms see 150 at 087-1, 3.4.3.
Minimum size of DE values [6.4.5] t : : [Esycut of representation] Submitting organisation	<u>Systems</u> , Toga	Source Comment	r the wide spectrum of computing research. The department is part of the RAE 5* School of
(6.6.3) 0:1 0:1	Electronics, CD	Concept #	Terms can consist of single words or be composed of multiword strings. The distinguishing characteristic of a term is that it is assigned to a single
Name (6.1.1) 1:1 Begistration Authority (6.1.4) Identifier (8.1.2)		Comment	concept, as opposed to a phraseological unit, which combines more than
Context (6.1.6) 0:1 DATA Version (6.1.3) Registration status (6.5.2)	20		one concept in a lexicalized fashion to express complex situations. Quality
ELEMENT			assurance system is a term, whereas satisfy quality requirements is a
1:n 0:n Classification scheme			phraseological unit, specifically a collocation.
(6.4.7) (6.3.1)		Example	"radix" in annex D, figure D.1.
Synamymous name (6.1.5) 0 : n Reliated data reference (6.3.3)	<u>Centre for</u>	Patin e Manageme	noteText (open)
Context (8.1.6) 0:0 Type of relationship (6.3.4)		Level(s)	Term Section, Term Component Section





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Recent Work - ISO 12620

• Contains 170 data categories (growing firs barges at indegraduate and instratiate kiels. These ourses are designed into the following groups to the state groups to the end world, and prepare them to pusse time postgraduate interpostgraduate int

People

Events

Grid Computing

– term

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- term-related information
- equivalence
- subject field
- concept-related description
- concept relation
- conceptual structures
- note
- documentary language
- administrative information
- It's a terminology of terminology! ISO11179-3 therefore has a terminology of terminology of terminology.

In addition students have the option of taking a professional training year, which is accepted as a first step towards Chartered Engineer (CEng) status.

> The department of Computing has two major research centres, the <u>Centre for Knowledge Management</u> and the <u>Centre for Software</u> Systems. Together they combine to cover the wide spectrum of computing research. The department is part of the RAE 5st School of Electronics, Computing and Mathematics.





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Recent Work - ISO 12620

- SALT Project
 - Data Category Management tool: SALT Suite (Free)
 - Testing codification of Linguasphere languageRessen codes

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Mappings between language systems. SO 639, 3166, SIL, Apple and Microsoft code sets

The Department of Compu	DCR File Filitor Converter Rublicher & Admin C Readman About					
both to equip students for c						
ctudiae. Taught modulae a	Visualization 🖉 Data Categories 👁 Visualization 📅 Query 🐖 Help 🛈 About					
oliulito, raugili iliuulito di						
	Data Category Identifier Administrative					
In addition students have th	definition New ISO12620A-0501 Annotations					
Chartered Engineer (CEng	Occurrence 01 Parents					
onartoroa Enginoar (oEng	Definition Style					
	A representation of a concept by a descriptive statement which serves to differentiate it from related					
Research	concepts.					
		E dit 1				
The depart						
ille debai	Source note Comment Example					
<u>Systems</u> .	3.3.1.					
Electronic						
A	Edit	Edit				
	Target type Content type Dictionary ID					
S	not present InoteText I A.5.1	her				
1 / 1	Level Possible Reference picklist values Selected values					
ZHM Centre	LS V TS Edit New					



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Recent Work - ISO 12620

• Enabling migration to larger schemes of language codings

<dcsd:DataCategory dcsd:DCName="50-gla_1" dcsd:DCIdentifier="50-gla_1" dcsd:DCIdentifier="50-gla_1" dcsd:DCType="0"</pre>

<dcsd:DCDefinition>"pre-modern" galial Hings and control of the second as a first step towards
<dcsd:DCComment> (Control of the second as a first step towards)

<dcsd:conceptComment>early modern scottish gaellic</dcsd:conceptComment>

<dcsd:DictionaryID>50_gla_1//csd:DictionaryID>

Fahinh Orligius

</dcsd:DCComment> <dcsd:DCContent dcsd:DataType="picklist">

The department of Computing has two major research centres, the Centre for Knowledge Management and the Centre for Software

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<rdf:Alt>

<rdf:li>50-gla rdf.li>

</rdf:Alt>

</dcsd:DCContent>

</dcsd:DCParent>

</dcsd:DataCategory>

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Recent Work - ISO 16642

- Terminological Markup The Department of Computing offers degrees at undergraduate and postgraduate levels. These courses are designed to the second second
 - Specifies a simple markup Generic Mapping Foot (GMI
 - GMT can be adapted to other purposes e.g. Lexicon markup formats such as OLIF
 - Example for an Ontology Mapping Language (OML)







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Recent Work - ISO 16642

- GMT used on results of Multidoc project, a global automotive industry ontology
 - <struct type="CE
 - < feat type="name">c1.3000 Tauti modes an in Computing and the matching of the
 - <feat type="labell" xml:lang="en">connexion</feat>
 - <feat type="documentation://winitiang//winit functional union between two or more entities </feat>
 - <feat type="subclass-of">c1.3.1.1.1</feat>

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</struct>

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- Can be converted to current Ontology Interchange formats OIL-DAME/XOL
 - <rdfs:Class rdf:ID="#c1.3.1.1.1.1">
 - <rdfs:label xml:lang and be Centre for Knowledge Management and the Centre for Software
 - <rd><rdfs:comment xml:lang="en">a place constituting a structural or functional union between two or more entities</rdfs:comment>//
 - <rdfs:subClassOf rdf Wesource = # c1 Lattic Company Administration
 - </rdfs:Class>
 - <rdfs:Class rdf:ID="#c1.3.1.1.1.1.1
 - <rdfs:label xml:land attachment</rdfs:label>
 - <rdfs:comment xml:lang="en" a place constituting a structural union between two or more entities</rdfs:comment>
 - <rdfs:subClassOf rdf:resource=
 - </rdfs:Class>

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• This data collection (Dhydro), 800 = Hydrography

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In Lenoch Classification system (#unodicautom: Hydrography in GOP subtree (3631 possible hierarchically arranged classifications):



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- Recall: standards for both to the postgraduate and postgraduate levels. These courses are designed to the postgraduate levels. The postgraduate
 - Abstract format (TML) produced from the involues are in Computing and the involution an
 - By conversions to existing well-defined formats (MARTIF, TBX, GENETER) which can be defined by 12620 and 16642, data manipulation can be carried out with existing tools (*leveraged*)
 - Improve potential for content of Computing has two major research centres. the <u>Centre for Knowledge Management and the Centre for Software</u>
 - Ease import/export/reuse

• <u>People</u>







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Current Application Areas

- Generic Information Decision Decision of Computing offers degrees at undergraduate and postgraduate levels. These courses are designed to the course of th
 - The link between numerical data and language is explored for financial market analysis Industrial partners: Finsoft, Ibermatica, JRC.
- Television In Words (EP) Solition (EP) Sol
 - Information extraction from textual, audio and film descriptions.
 Customized audio descriptions for young and old, and for different languages. In association with BBC, RNIB, ITFC, Softel.
- Scene Of Crime Information System (EPSRC) where Management and the Center Schware
 - Automatically indexing scene of crime images through the link between photographs of crime scenes and the language used by police investigators to describe them. In association with 5 major UK Police Forces
- Bowne Global Services

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Research Questions

How can terminolo gy collections, be interesting the performance of the state of th estoraduate levels. These courses are designed

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Fit to common structure

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- Fit to common data sets
- Mapping values? In addition students have the option of taking a professional training year, which is accepted as a first step towards

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- How can systems and lassification be harmonised?
- Can we do things for ontology?
 - Ontology "specification of conceptualization"; Terminology concept system

entre for Knowledge Management

- Harmonisation of terminology -> Harmonisation of ontology?
- Sowa's framework of distinctions Together they combine to cover the wide spectrum of computing research. The department is part of the RAE 5" School of
- How can terminology collections be populated and appraised?
 - Multiple languages (EU collections)
 - Changing terminology
 - Exploitation of relations within texts







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Potential Benefits

• Terminology collections he best and b

People

- Harmonisation of terminology collections can assist business new markets, product localisation.
- Terminology can underpin document workflow and hence knowledge management

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he department of Computing has two major research centres, the <u>Centre for Knowledge Management</u> and the <u>Centre for Software</u>

- Reusability (cheaper!)
- Less need for accessorie of experiences (more average acquisition)
- 12620 and 16642 form a basis for new SC4; current focus on metadata



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• Tag abuse

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Final Notes

<dmdSec ID="dmd002"> haddim students have the optim of taking a professional baining year, which is accepted as a first step towards
<mdWrap MIMETY PIE="text">"text">"#IM WIDTYPE="DC" LAB
EI="Dublin Core
Metadata">
<dc:title>Alice's Adventures in Wonderland</dc:title>

<dc:creator>Lewis
<dc:creator>Lewis
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JNS

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• <u>UCAS</u>

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Web Links

- http://www.computing.subjections of the Department of Computing offers degrees at undergraduate levels. These courses are designed to the provide the second seco
 - GIDA project:
 - SOCIS project:
 - TIWO project:
 - EU FP6:
 - System Quirk:
- SALT Project:
- BSI:

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• ISO TC37 http://www.iso.ch/150/en/usdevelopment/tc/tclist/TechnicalCommitte eDetailPage.TechnicalCommitteeDetail?COMMID=1459

Centre for Knowledge Management

/ai/socis In addition students have the option of taking a professional training year, which is accepted as a first step towards /chlwaret fingineer (cling) statuo_project

/ atulies. Taghimodileare in Computing and the innovative areas of Information Systems and Web Technologies.

/FP6 kww/i /SystemQ

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http://www.aparticleanerging.hts/www.mejerresearch.comes.dog.<u>Serre for Knyvledvolvlesearenerging.hts/www.mejerresearch.com</u> Sistems: Together they combine to cover the wide spectrum of computing research. The department is part of the RAE 5st School of http://www.school.com/