

ICT Perspectives

Mike Chantler, David Corne, Fraser Halley

21 March 2012

ICT Perceptions EPSRC EP/I038845/1

Context

EPSRC
Pioneering research
and skills

EPSRC Workshop Report

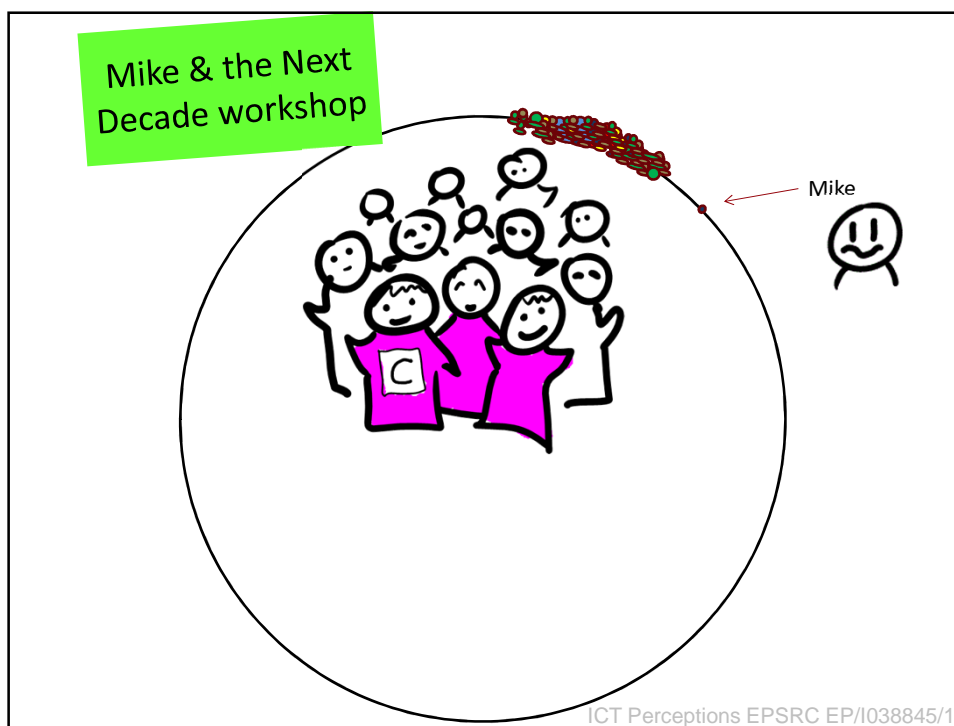
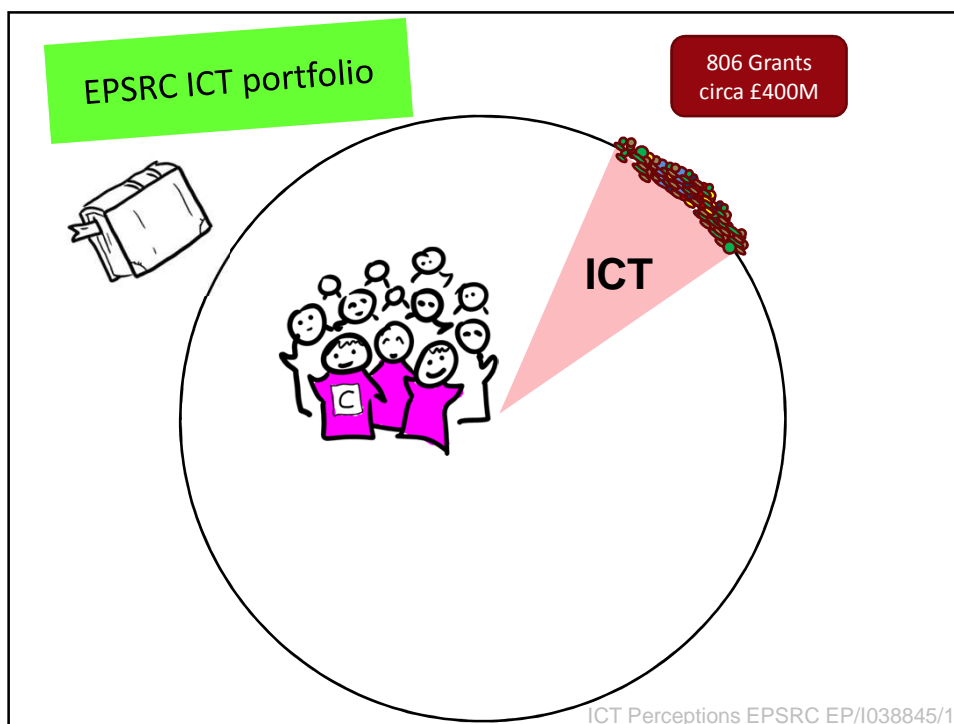
**ICT Research – The Next
Decade Workshop**

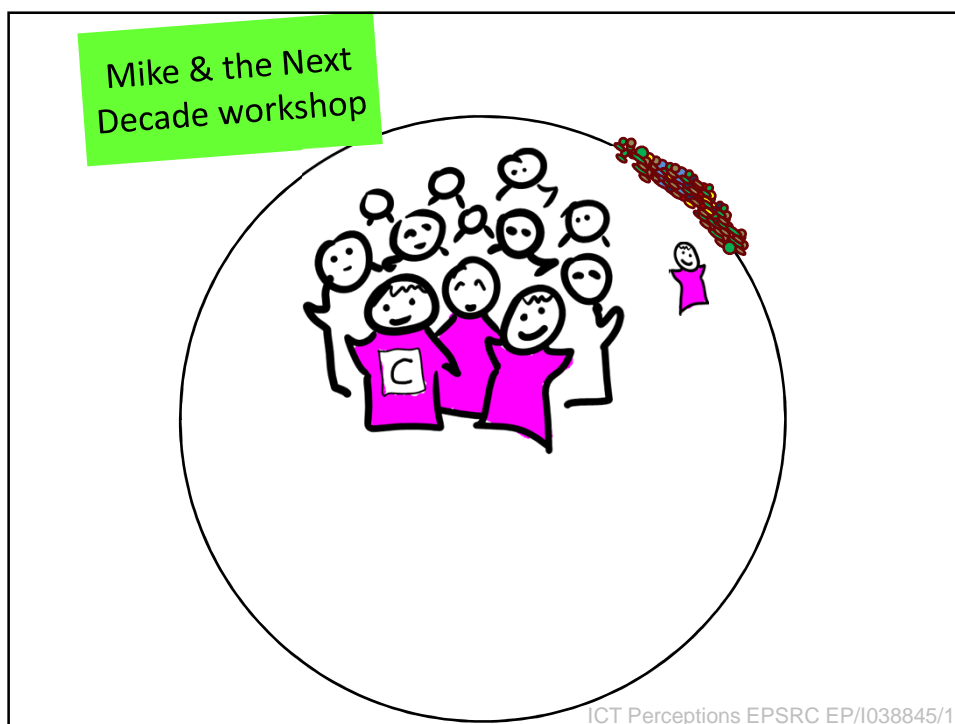
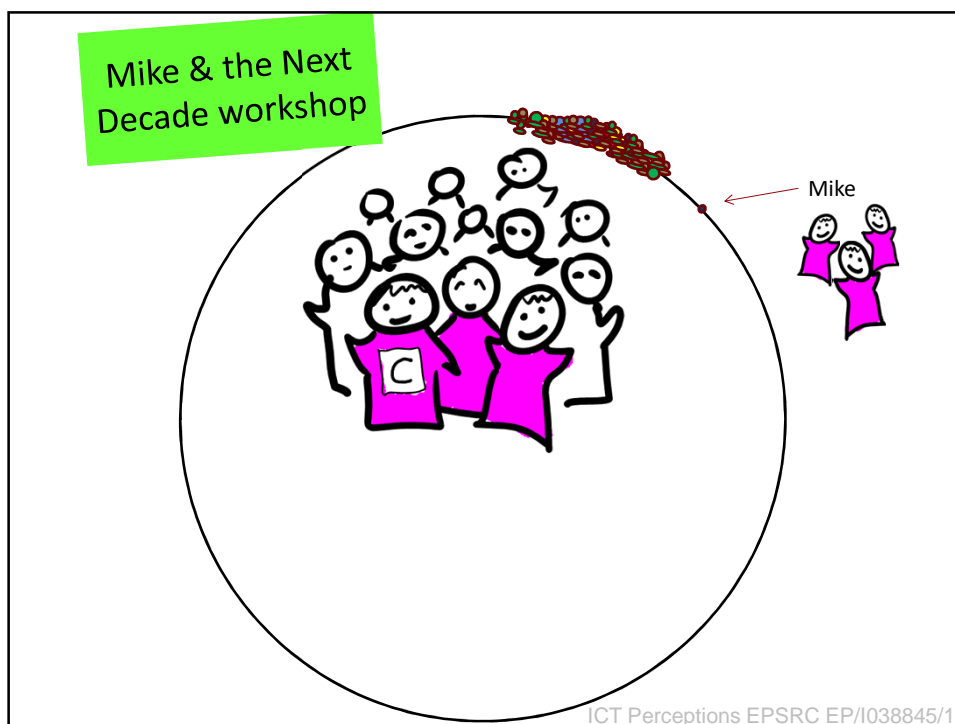
20 – 21 October 2010

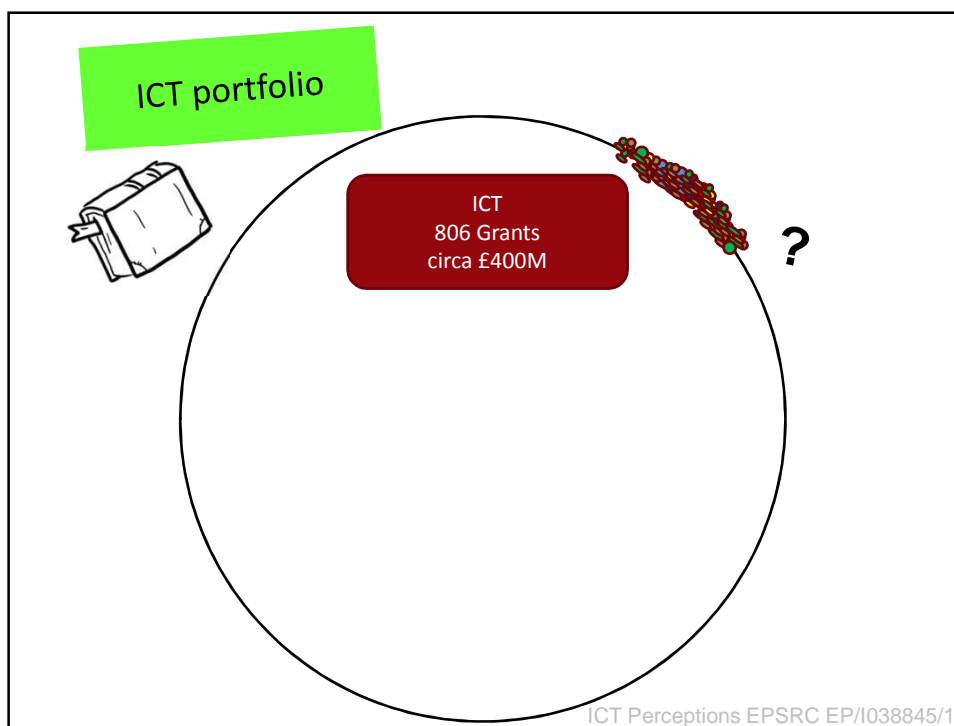
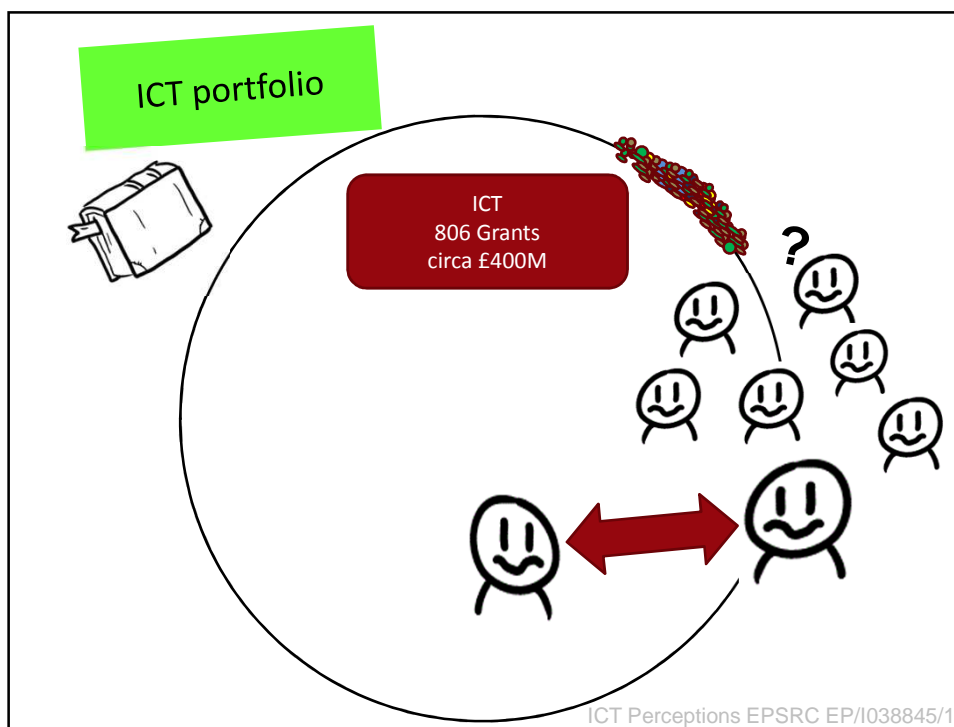
Katie Blaney
ICT Portfolio Manager
EPSRC

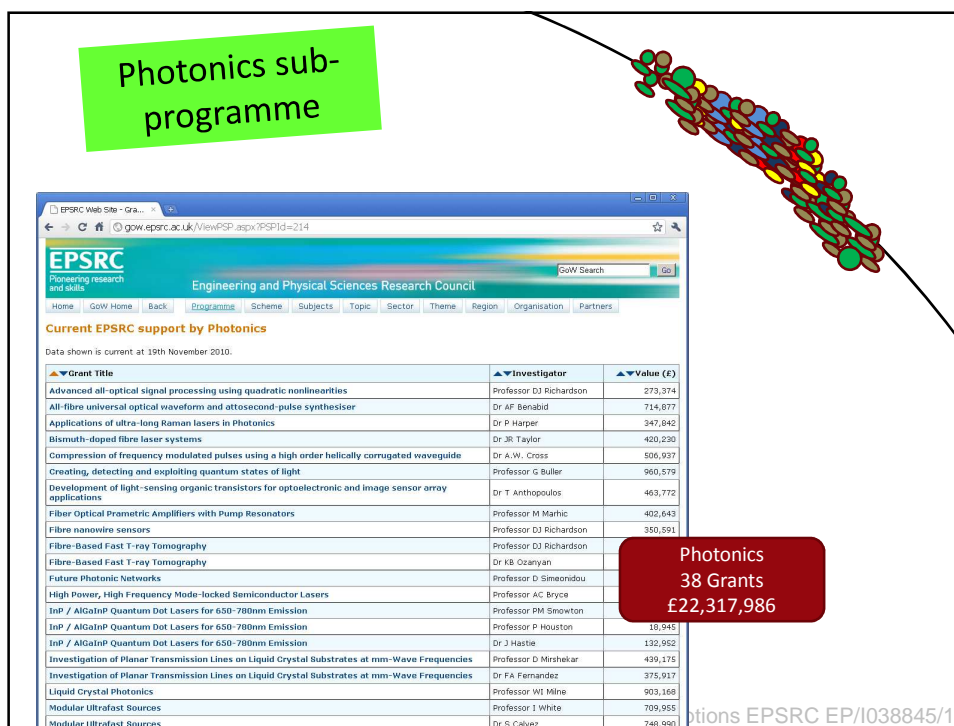
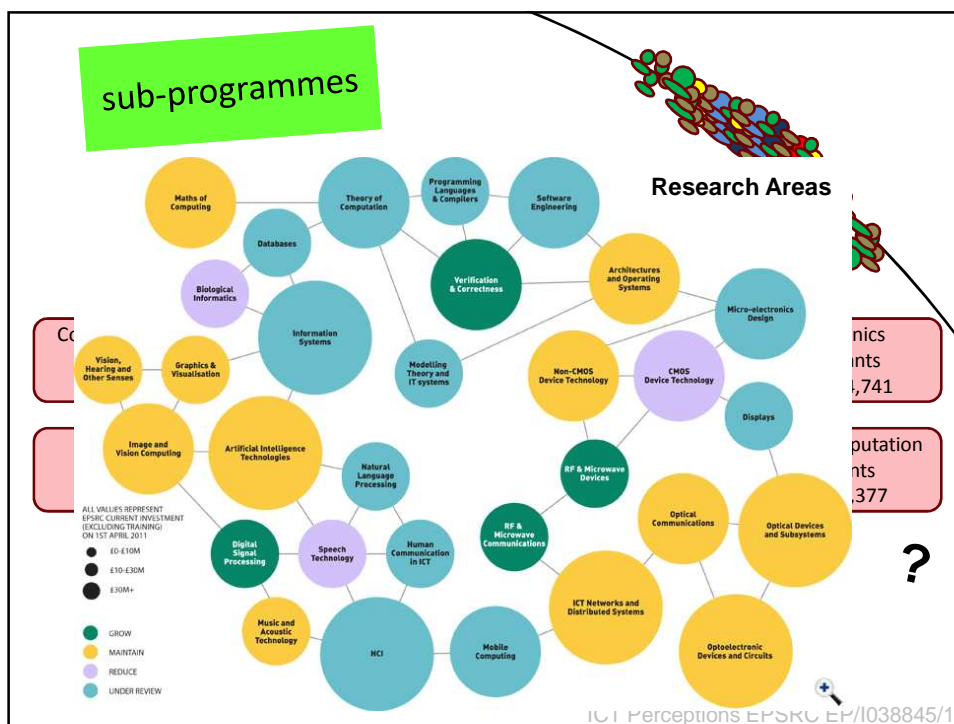


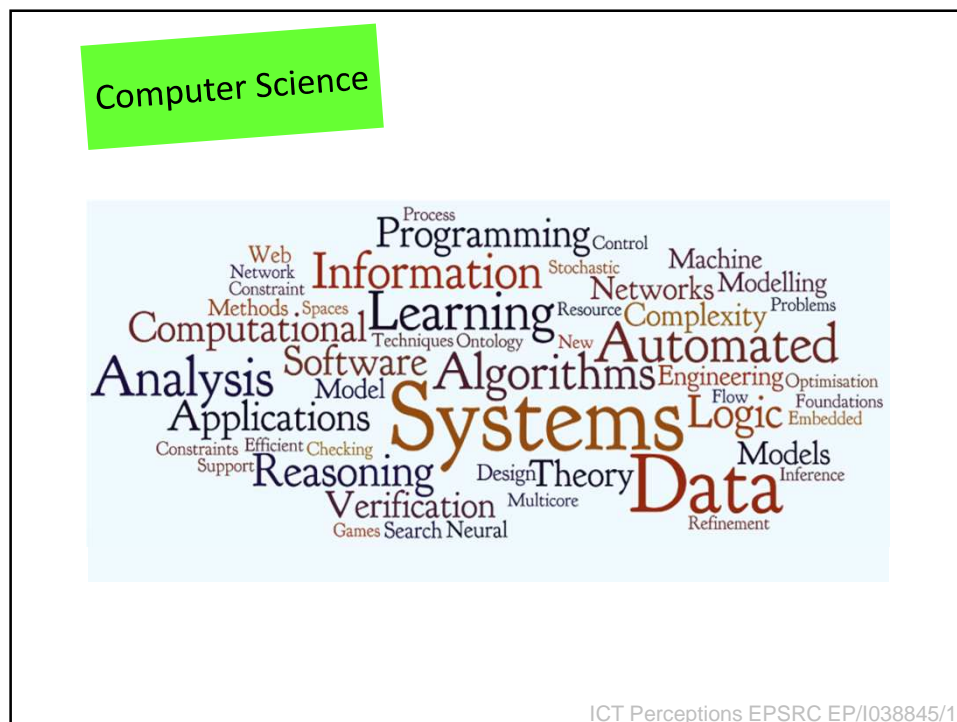
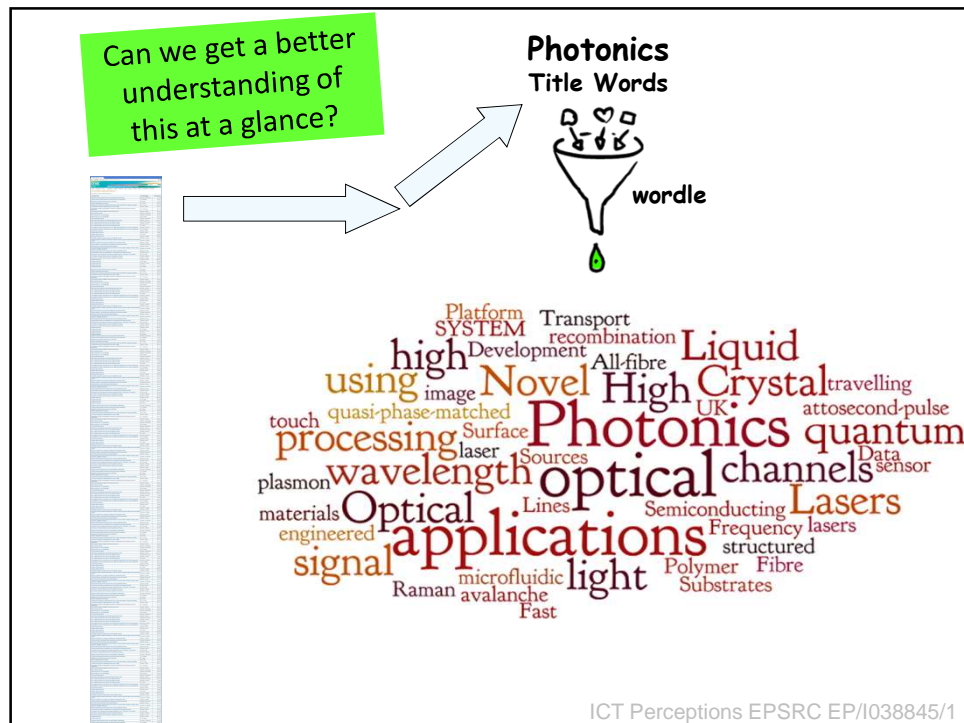
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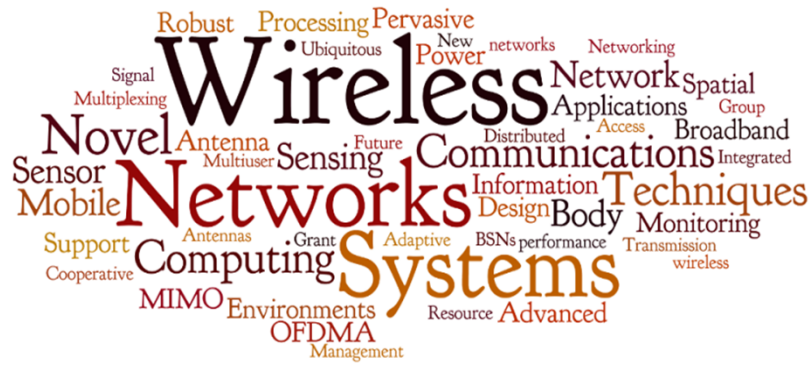






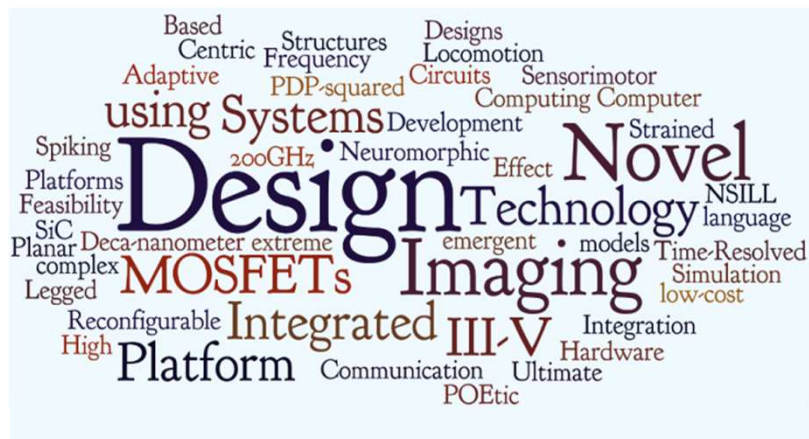


Communications



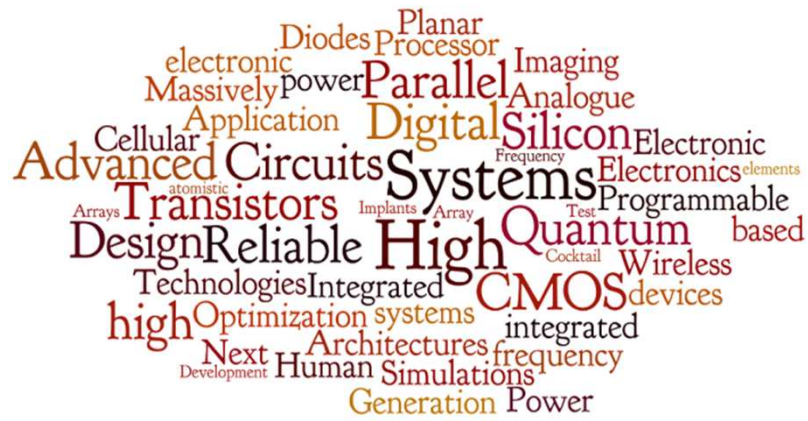
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Electronics



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Electronic Materials



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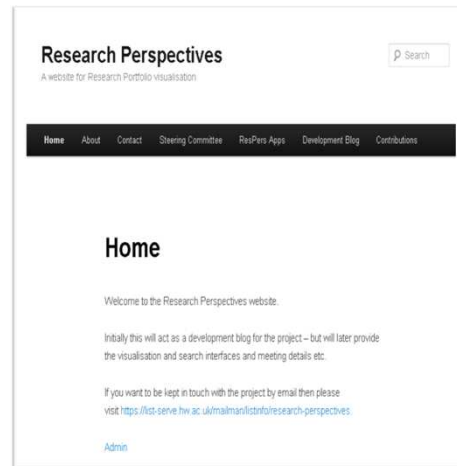
People & Interactivity



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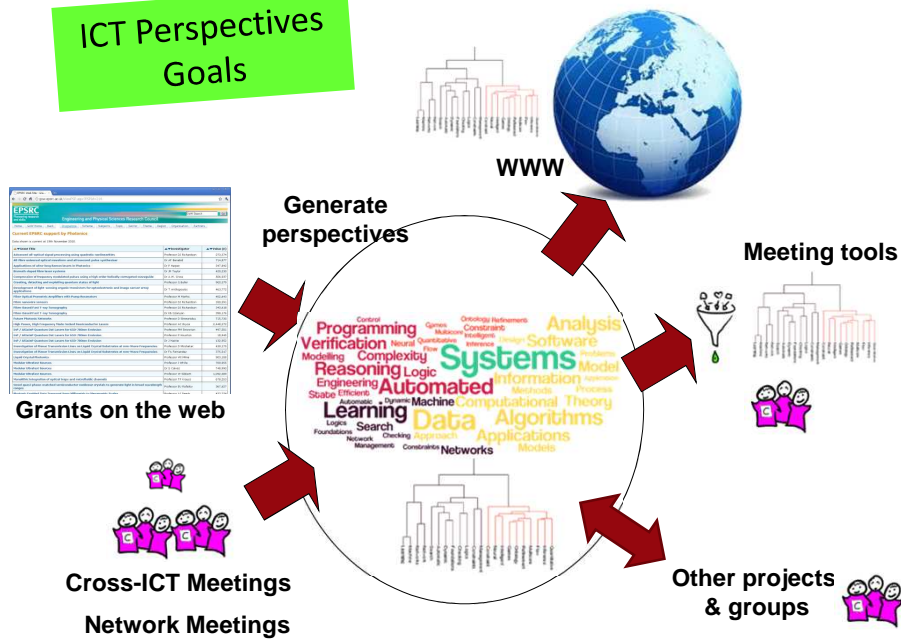
ICT Perspectives project

- 3 year EPSRC project
- Started April 2011



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ICT Perspectives Goals



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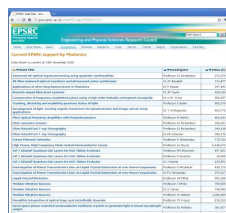
Ethos

- Transparency/trust
 - use well-known, easily understood approaches & algorithms
 - use public data
 - make all data/analysis/algorithms public
 - make URL available to follow-on project
- Use existing tools where practical
- Recognise that that there are many possible 'perspectives'
- Encourage 3rd party 'perspectives'

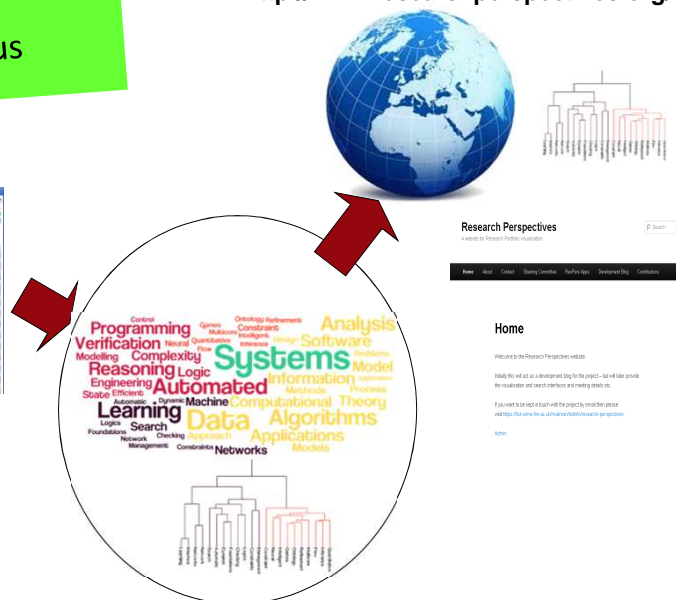
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Status

<http://www.researchperspectives.org/>



Grants on the web

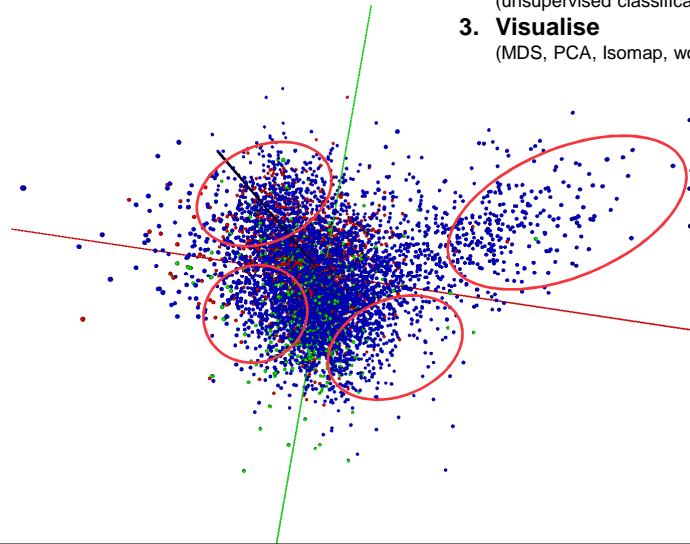


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'structure' in the portfolio

Need

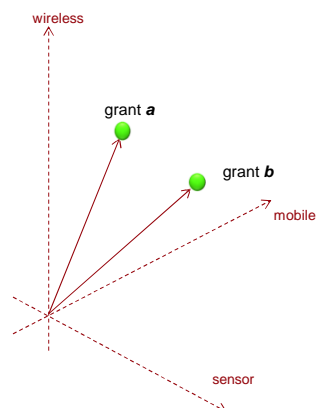
1. **feature space**
2. **clustering methods**
(unsupervised classification)
3. **Visualise**
(MDS, PCA, Isomap, word clouds)



I038845/1

Feature space:
single terms

Compare in weighted term (feature) space (50k dimensions)

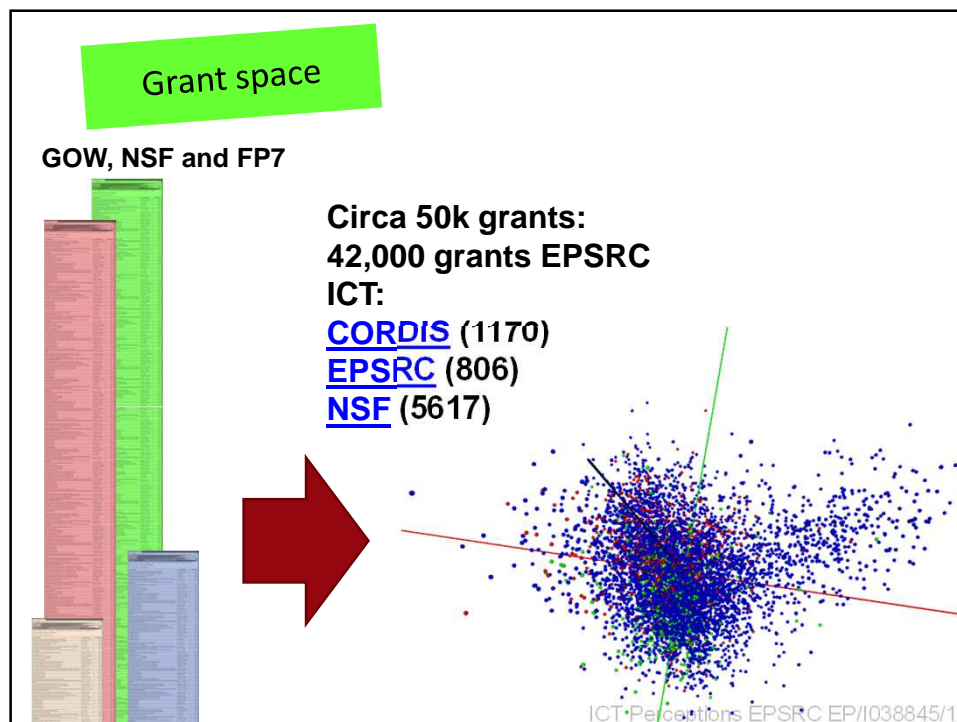
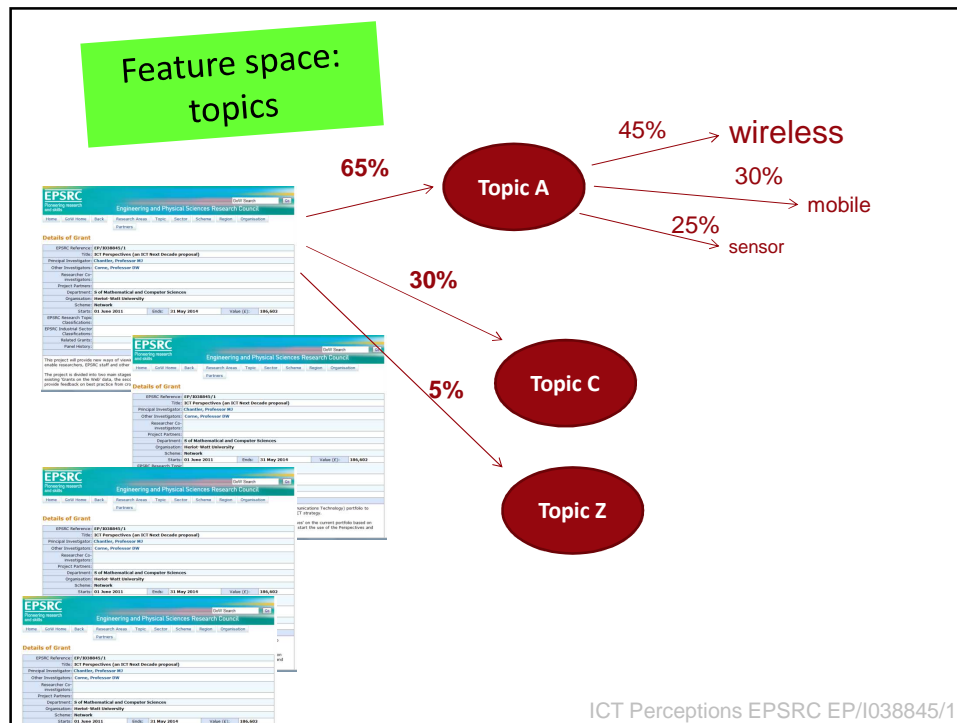


$$\text{tfidf} = \left(\frac{t}{T} \right) \times \log \left(\frac{D}{d} \right)$$

d = total No. documents in which the term appears at least once

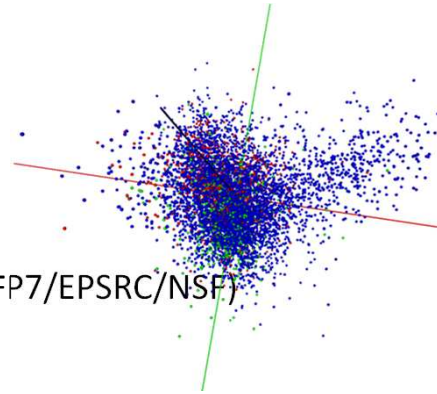
t = the number of occurrences of the term in a document

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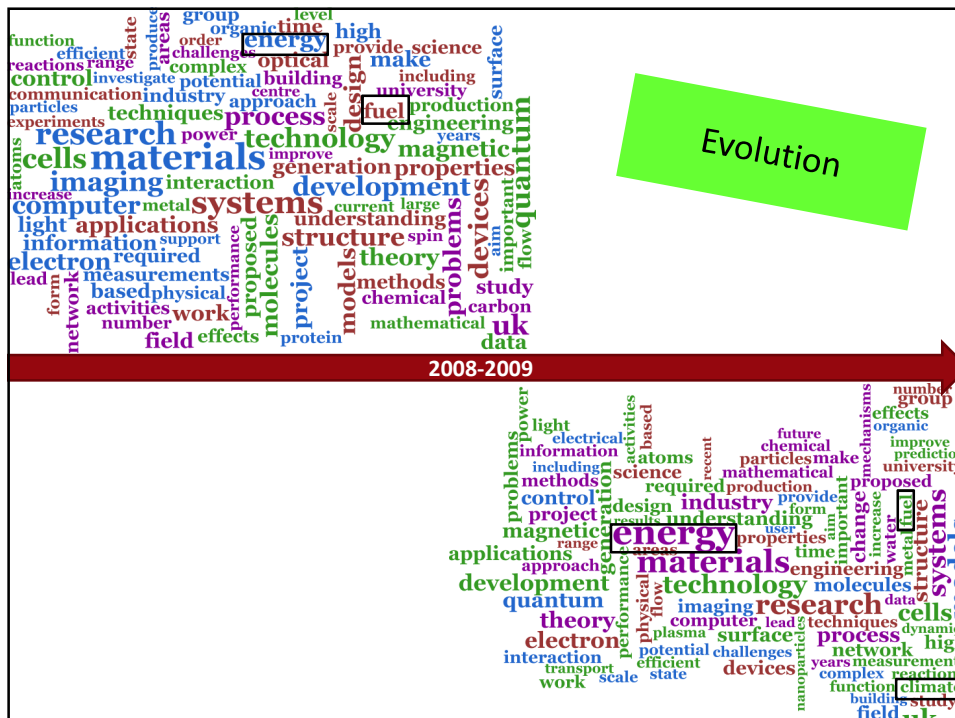


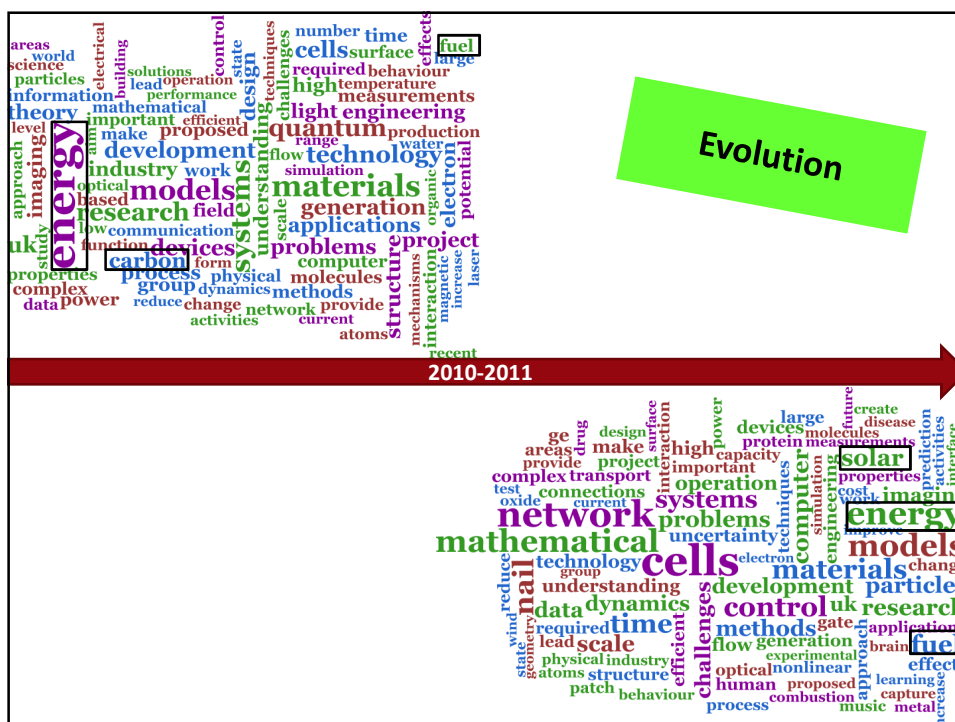
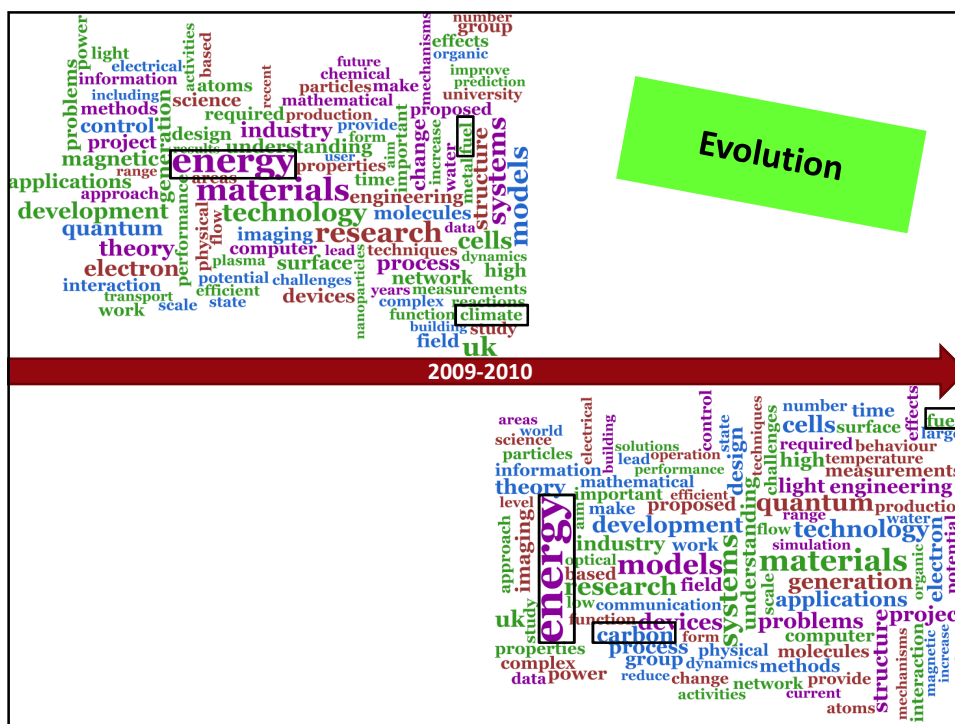
Visualisation & navigation

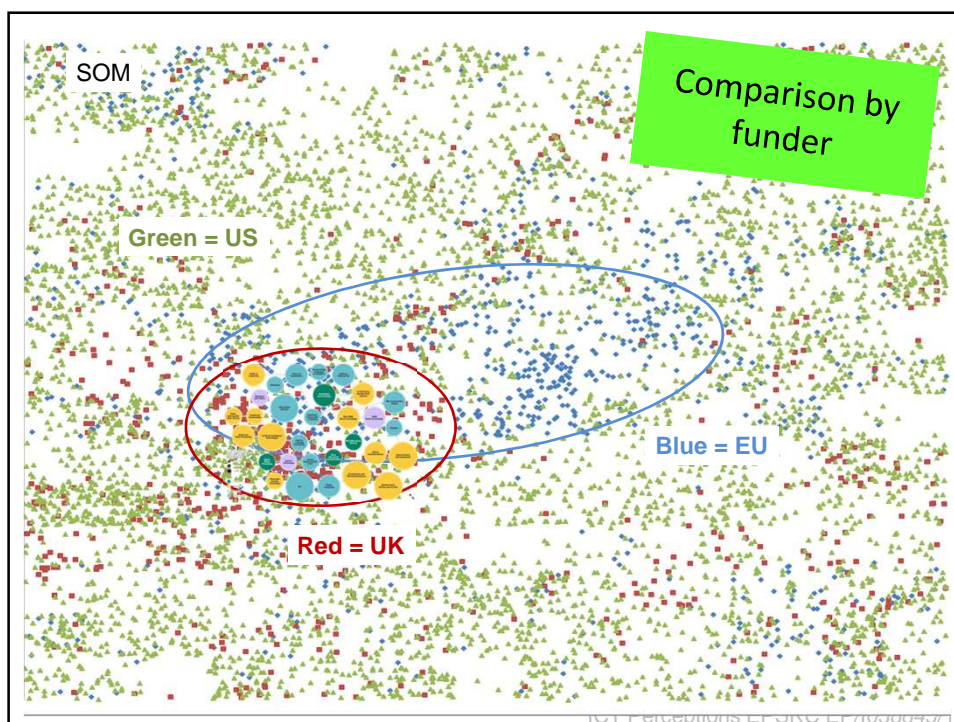
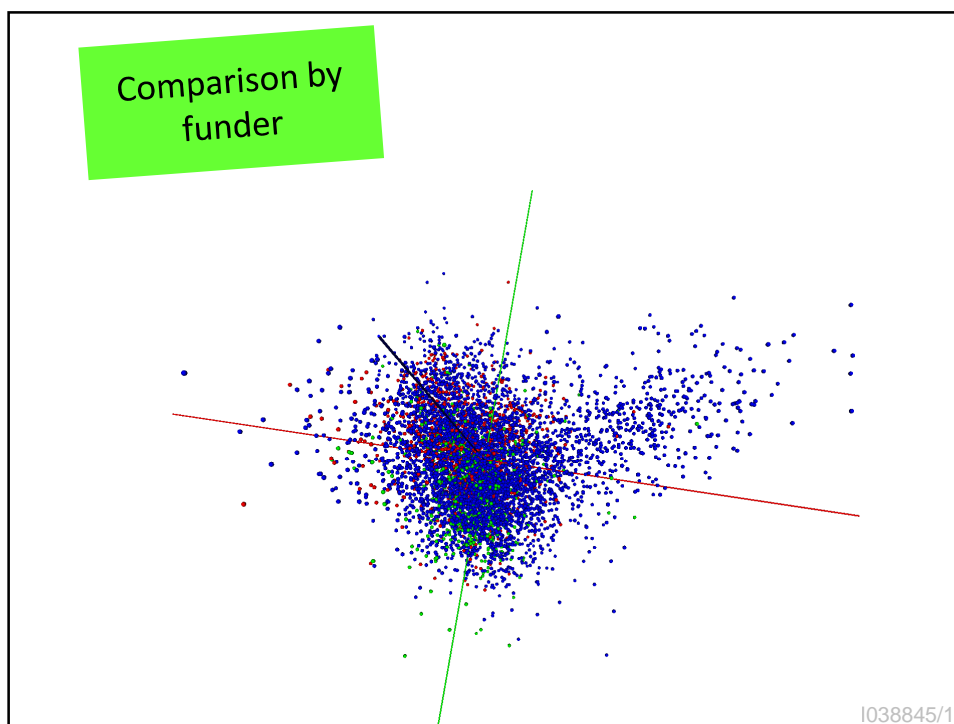
- Global view
 - Evolution over time
 - Comparison of funders (FP7/EP SRC/NSF)
 - By sub-programme
 - Cluster visualisation
- Local view
 - Drill down to grants
 - 10 'nearest' grants
 - term search

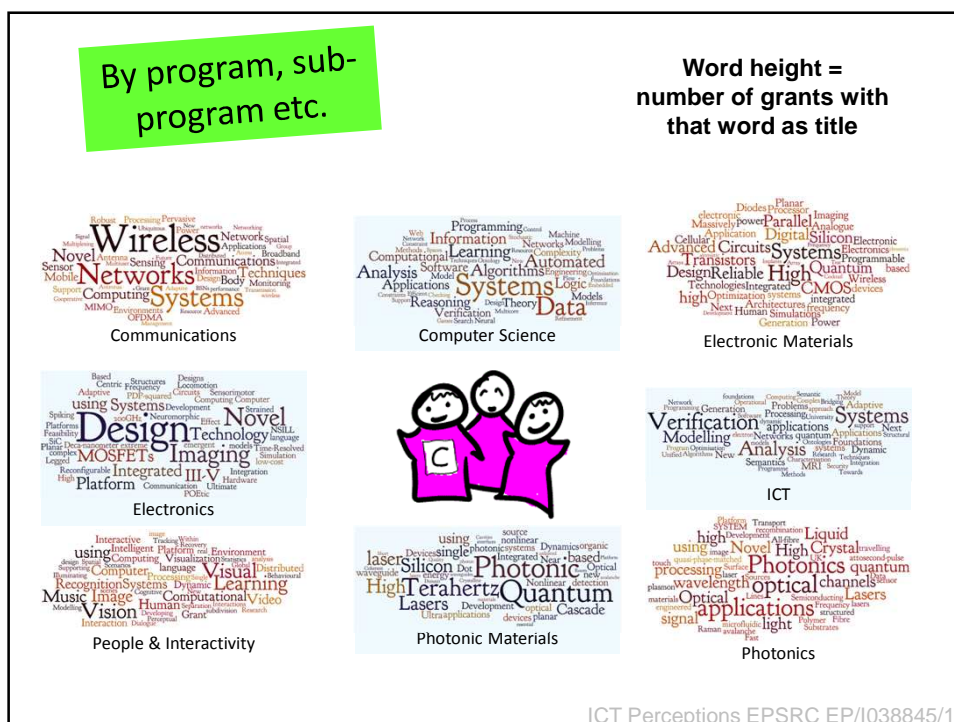
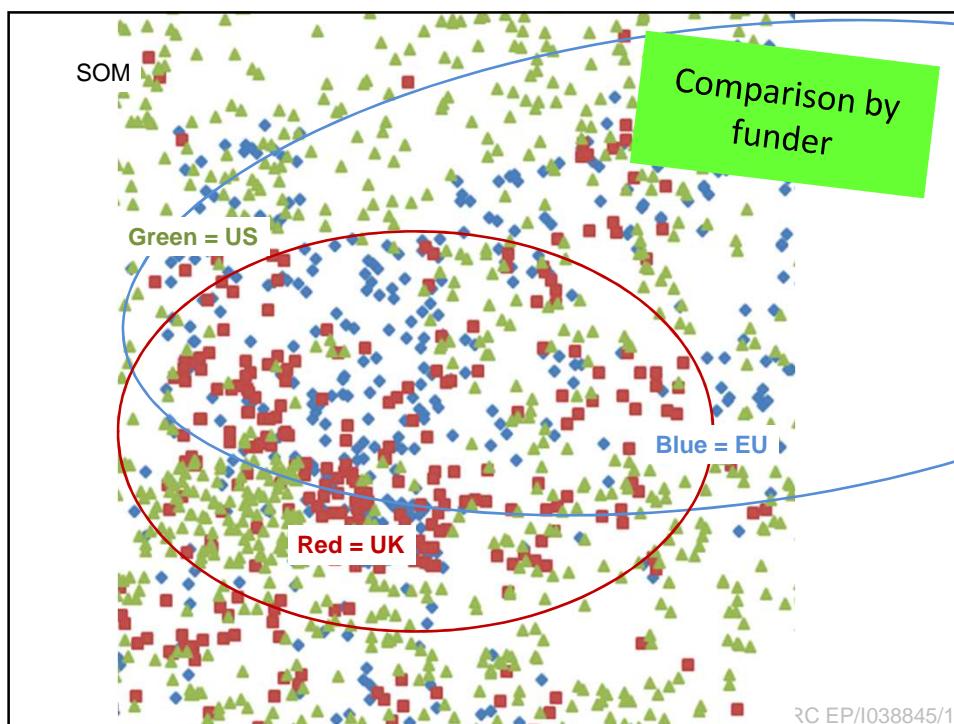


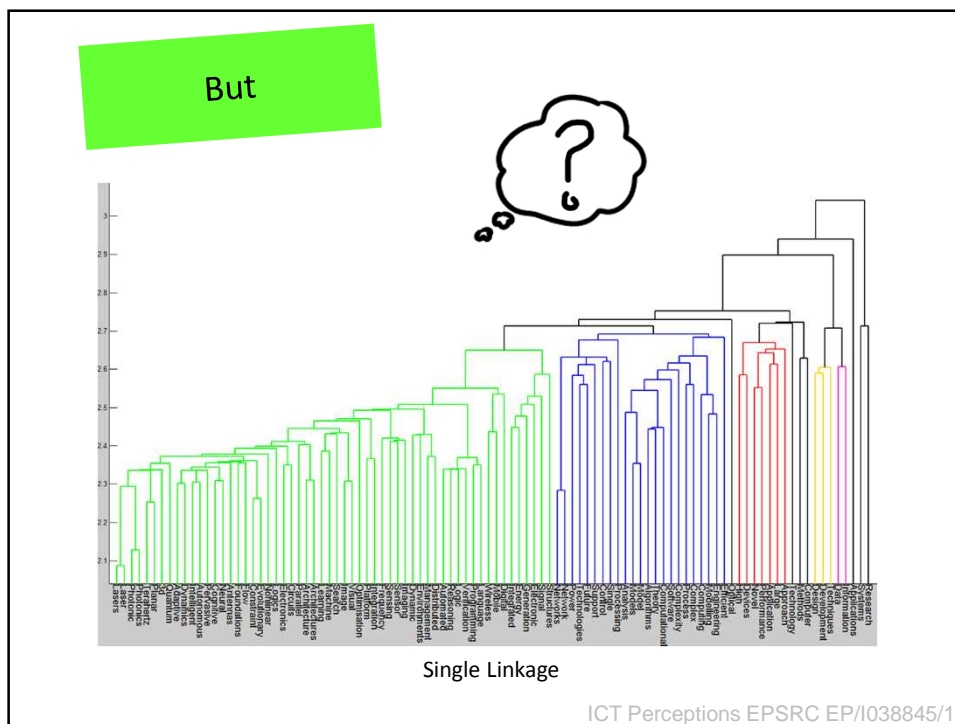
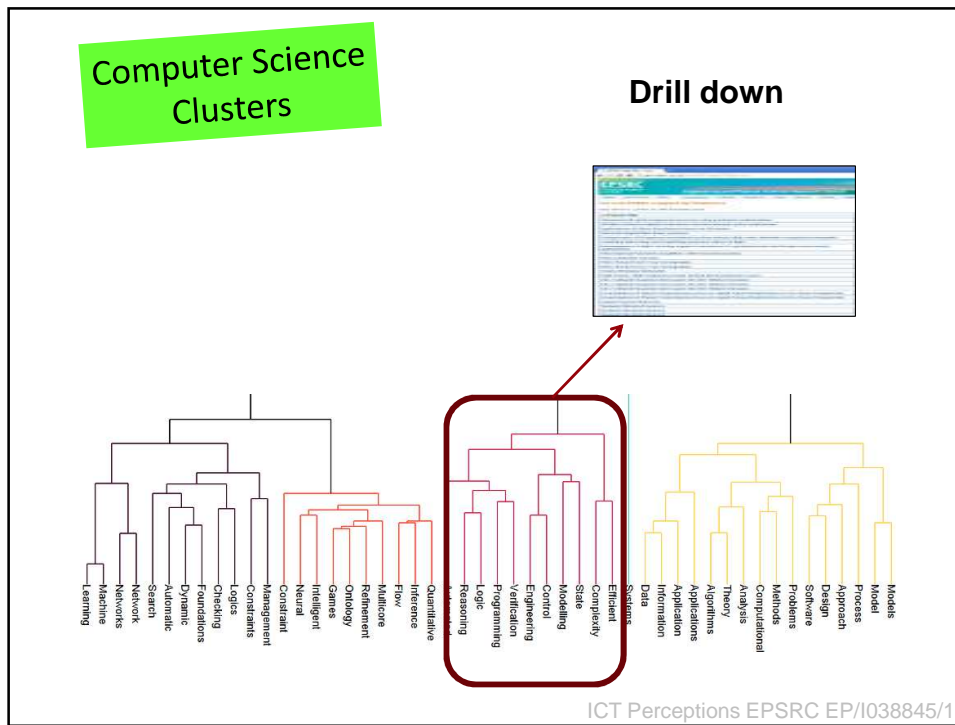
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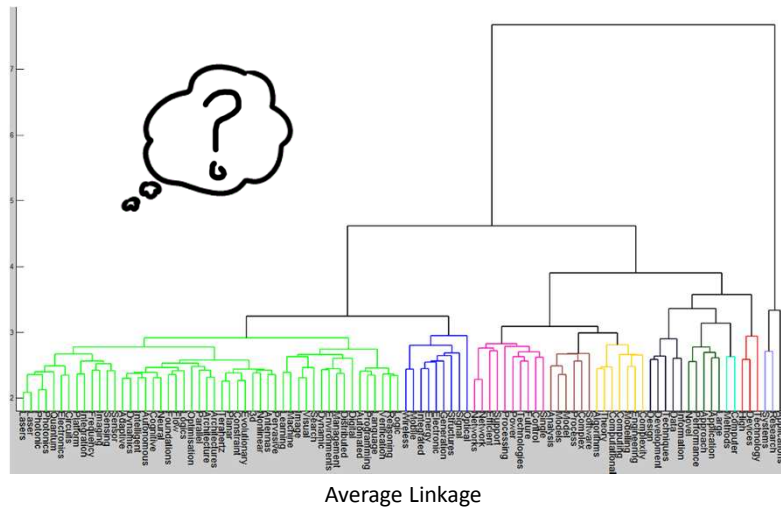








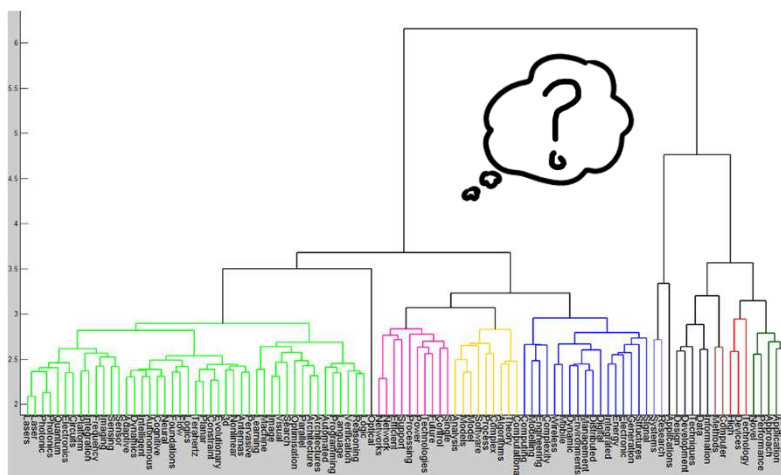
But



Average Linkage

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But



Weighted Linkage

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Browsing

- Browsing and
- drilling down into the grants & investigators

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Research Perspectives Search Engine

- ☒ CORDIS
- ☒ EPSRC
- ☒ NSF

**Grant search:
knowledge capture manufacturing**

Results: 29

[EP/F02553X/1](#) Scottish Manufacturing Institute – Renewal, 2008 – 2013 (15)

[EP/D505631/1](#) Understanding and Assessing the Concept of Knowledge Leakage: "A Closing the Gap, Crossing the Levels Ideas Factory Project" (14)

[EP/E037631/1](#) An Evolutionary Approach to Rapid Development of Simulation Models (12)

[GR/R26757/01](#) Distributed and Collaborative Product Development and Manufacturing Knowledge Management (12)

[GR/R35148/01](#) Distribute and collaborative product development and manufacturing knowledge management (12)

[EP/C534220/1](#) Immortal Information and Through-Life Knowledge Management (IITKM): Strategies and Tools for the Emerging Product-Service Paradigm (9)

[EP/E502350/1](#) Immortal Information & Through-life Knowledge Management (IITKM): Strategies & Tools for the Emerging Product-Service Paradigm (9)

[GR/K95758/01](#) INTERGRATED DESIGN AND MANUFACTURING KNOWLEDGE IN AN EXTENDED ENTERPRISE (INDEMAND) (7)

[EP/F031858/1](#) Next Generation Manufacture Supply Chains and Economy Research Collaboration (NEX-GEM) (6)

[EP/I006192/1](#) An Embedded System for High Dynamic Range Enabled Television (6)

[EP/C526309/1](#) Computational Biomechanics for the Study of Aortic Dissections: A Coupled Haemodynamics-Arterial Tissue Approach (5)

ptions EPSRC EP/I038845/1

Grant Summary



EP/F02553X/1 (EPSRC – Innovative Manufacturing – Innovative Manufacturing)

Title: Scottish Manufacturing Institute – Renewal, 2008 – 2013

Link: <http://gow.epsrc.ac.uk/ViewGrant.aspx?GrantRef=EP/F02553X/1>

Most similar: EP/E001769/1 GR/R64711/01 GR/R64711/02 GR/K82512/01
GR/R89844/01 GR/R67019/01 GR/H52405/01 EP/H02607X/1
GR/F86991/01 GR/E39976/01

Principal Investigator: Professor JDC Jones

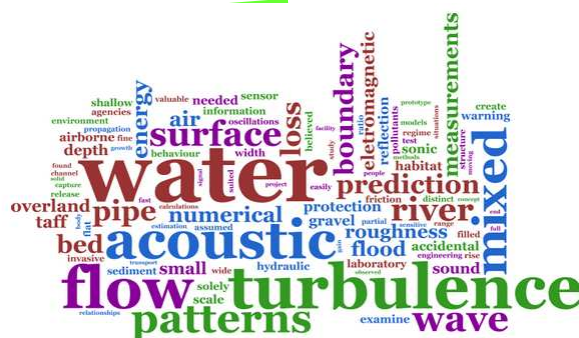
Additional Investigators: Professor MJ Chantler, Professor M Desmulliez, Professor D Hall, Professor DP Hand, Professor AJ Moore, Professor JM Ritchie

Starts: 01 April 2008

Ends: 31 March 2013

Value: £7,146,844

11



EP/G015341/1 (EPSRC – Process Environment and Sustainability – Process Environment and Sustainability)

Title: Sonic Characterisation of Water Surface Waves, Turbulence, Mixing and Bed Friction in Shallow Water Flows

Link: <http://gow.epsrc.ac.uk/ViewGrant.aspx?GrantRef=EP/G015341/1>

Most similar: EP/G014264/1 EP/G020876/1 EP/D072034/1 EP/F022964/1
EP/F017413/1 EP/F017413/2 **EP/E00847X/1** EP/D036771/1
EP/D037166/1 EP/C510968/1

Principal Professor S Tait

Investigator:

Additional Professor KV Horoshenkov, Professor S Shepherd

Process Environment and Sustainability

otions EPSRC EP/I038845/1

**7th
closest
grant**

EPSRC EP/I038845/1

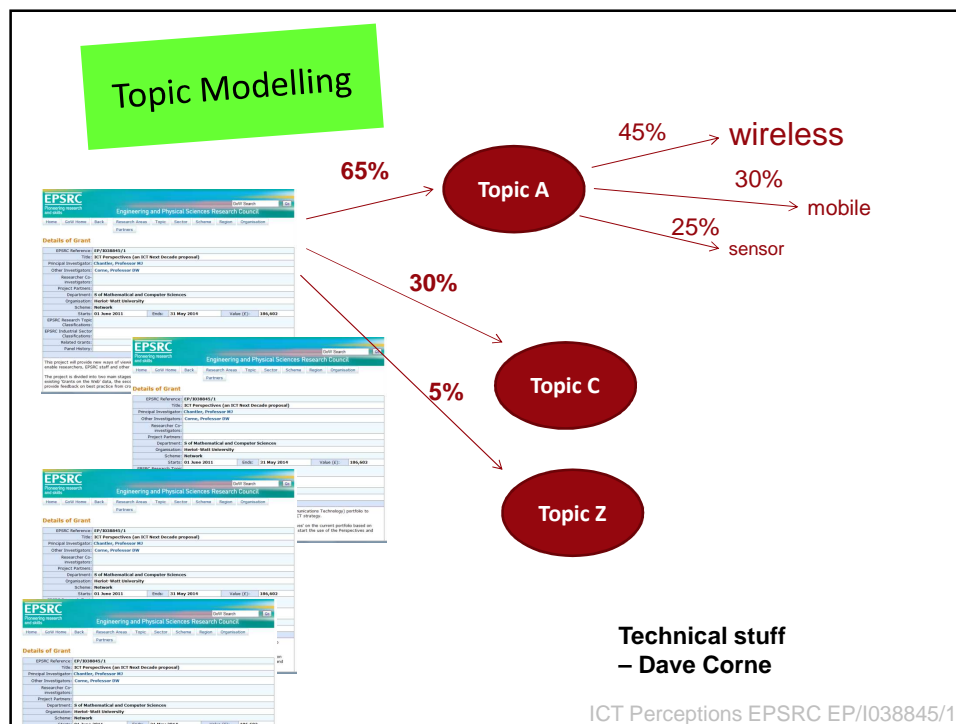
Stopped: actual advantages **assume** attempted based **behaviour** bespoke
bespoke bespoke **characterised** classes coherent coherent coherent
components conceptual consists consume consumption control control
controlled controlled controlled controlling controlled **create create** date
dependence dependence dependencies derive design **detailed** difficult
dimensions disorder eddies eddies eddies eddy edding **effectively**
efficient elements elements elliptic embedded **energy energy energy**
energy enormous experiments firstly flawed **flow flow flow flows flows**
flows flows flows flows flows flows flows flows fluid fractal framework fully
fully fundamentally good ground high hyperbolic impact imposed
impossible **knowledge laboratory laboratory laboratory** laminar
laminar lot **low** maintained **measuring mix mix** mixer mixers mixers
mixing mixing mixing mixing mixing mixing mixing mixing models models
models monitoring multi multi multi multi multi multi multi multi
number number numerical order order persistence persistent persistent
persistent persistent points **potential** provide **properties properties**
properties propose purpose random random random random
randomness randomness rate rates relations require research **result**
resulting reynolds reynolds **scale scale scale scale scale scale scale**
scale scale separation **simulations** sizes space spatio spectra stage
stagnation statistics statistics stirring stirring stirring streamline **structure**
structure structure structure structure structure structure study subsequent
temporal terms time time time time time tools topological topologies
topology topology **turbulence turbulence turbulence turbulence**
turbulent turbulent turbulent turbulent turbulent turbulent
turbulent turbulent twofold **type** understand understanding
understanding virtually whilst

Match explanation

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Topic Modelling

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Topic Modelling

- Statistical model for discovering hidden or latent 'topics' in a collection of documents
- Latent Dirichlet allocation (LDA) allows documents to belong to a mixture of topics
- Probability dist. function determines likelihood of document belonging to a topic and therefore its topic 'proportions'



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RP Topic Model

RP Topic Model:

- 48,387 grants
- EPSRC (all pgms), CORDIS (ICT) & NSF (ICT)

Generated 600 Topic Model:

- 20 words per topic
- Weighted by occurrence in associated grants
- Ordered by EPSRC ICT Theme relevance

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Topic T311

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Topic T533



mobile (3068) phones (605) devices (455) communication (323) user (241)
 technology (219) access (182) provide (152) connections (144) personal (141)
 services (129) ubiquitous (119) wireless (107) emerging (105) support (89)
 telephone (85) smartphone (83) environment (79) telecommunications (69) traditional (64)

ICT Perceptions EPSRC EP/I038845/1

T311 vs. T533

Topic Plotter

Grants for topics 311 and 533 (start again)

CORDIS212430 Mobile Web 2.0 (MOBWEB2.0)
 CORDIS224348 Open accessibility everywhere: groundwork, infrastructure, standards (AEOS)
 CORDIS257823 Inclusive Future-Internet Web Services (DIVEB)
 CORDIS257800 Mobile Web Applications for Future Internet Services (MOBWEBAPP)
 CORDIS269954 Voice-based Community - Etrinsic mobile Services for social development (VOICES)
 CORDIS270229 Sustainable social Network Services for Transport (SUNSET)
 EP/D0788031 The Intelligent Airport (TINA)
 EP/E0022181 RAM: Reciprocal Interoperability between the Accessible and Mobile Webs
 EP/H0473951 Walker there really is a computer in my soap and it's telephoning me! - Revealing invisible computers
 EP/I0017781 Bridging the Rural Divide
 EP/I0031111 MOLTEN: Mathematics Of Large Technological Evolving Networks
 EP/I005811 MOLTEN: Mathematics Of Large Technological Evolving Networks
 EP/I073211 MOLTEN: Mathematics Of Large Technological Evolving Networks
 GR/F0514501 HF RADIO SYSTEM DESIGN FOR MOBILE & PAGING APPLICATION
 GR/J0375801 NMR SPECTROSCOPY FOR THE SUPPORT OF CHEMISTRY IN NOTTINGHAM
 GR/L052801 HIGH BANDWIDTH MOBILE MULTIMEDIA COMMUNICATION SYSTEMS FOR FIELD ENGINEERS IN THE UTILITY INDUSTRY
 GR/L7002801 FROM THE LARGE TO THE SMALL SCREEN - RETAINING THE DESIGNER'S DESIGN FOR EFFECTIVE USER INTERACTION
 GR/L707801 SOUND LANGUAGES UNDERPIN RELIABLE PROGRAMMING
 GR/M0251801 LINKING DISTRIBUTED LINK SERVICES FOR MOBILE ENVIRONMENTS
 GR/M0251801 LINKING DISTRIBUTED LINK SERVICES FOR MOBILE ENVIRONMENTS



ICT Perceptions EPSRC EP/I038845/1

T311 vs. T533

Topic Plotter

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CORDIS212430 Mobile Web 2.0 (MOBIWEB2.0)
 CORDIS224348 Open accessibility everywhere: groundwork (AEGIS)
 CORDIS257823 Inclusive Future-Internet Web Services (DIVER)
 CORDIS257800 Mobile Web Applications for Future Internet
 CORDIS269954 Voice-based Community-Centric mobile Services (VOICES)
 CORDIS270228 Sustainable social Network Services for Transport (SUNSET)
 EPID0780031 The Intelligent Airport (TINA)
 EPID022181 RAM: Reciprocal Interoperability between the
 EPID0473951 Visitor there really is a computer in my soup: Revealing invisible computers.
 EPID0177814 Bridging the Rural Divide
 EPID1603111 MOLTEN: Mathematics Of Large Technologies
 EPID1605811 MOLTEN: Mathematics Of Large Technologies
 EPID1732111 MOLTEN: Mathematics Of Large Technologies
 GRF0514501 HF RADIO SYSTEM DESIGN FOR MOBILE
 GRU8375801 NMR SPECTROSCOPY FOR THE SUPPORT OF CHEMISTRY IN
 NOTTINGHAM
 GRU1512901 HIGH BANDWIDTH MOBILE MULTIMEDIA COMMUNICATION SYSTEMS
 FOR FIELD ENGINEERS IN THE UTILITY INDUSTRY
 GRU17022801 FROM THE LARGE TO THE SMALL SCREEN – RETAINING THE
 DESIGNER'S DESIGN FOR EFFECTIVE USER INTERACTION
 GRU1707801 SOUND LANGUAGES UNDERPIN RELIABLE PROGRAMMING
 GRU2591901 LINKING DISTRIBUTED LINK SERVICES FOR MOBILE ENVIRONMENTS
 REMARKABLE LINKING DISTRIBUTED LINK SERVICES FOR MOBILE ENVIRONMENTS



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T311 vs. T533

Topic Plotter

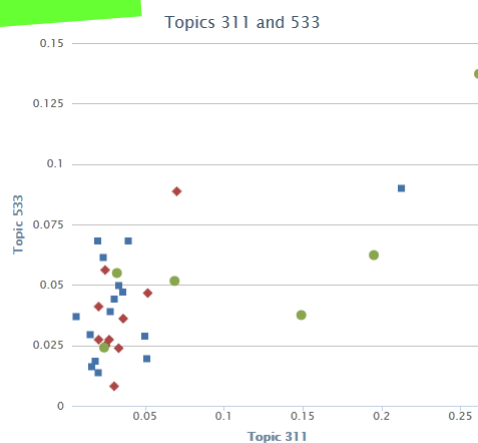
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 CORDIS224348 Open accessibility everywhere: groundwork, infrastructure, standards (AEGIS)
 CORDIS257823 Inclusive Future-Internet Web Services (DIVER)
 CORDIS257800 Mobile Web Applications for Future Internet Services (MOBI)
 CORDIS269954 Voice-based Community-Centric mobile Services for social (VOICES)
 CORDIS270228 Sustainable social Network Services for Transport (SUNSET)
 EPID0780031 The Intelligent Airport (TINA)
 EPID022181 RAM: Reciprocal Interoperability between the Accessible and
 EPID0473951 Visitor there really is a computer in my soup and it's telephone: Revealing invisible computers.
 EPID0177814 Bridging the Rural Divide
 EPID1603111 MOLTEN: Mathematics Of Large Technological Evolving Network
 EPID1605811 MOLTEN: Mathematics Of Large Technological Evolving Network
 EPID1732111 MOLTEN: Mathematics Of Large Technological Evolving Network
 GRF0514501 HF RADIO SYSTEM DESIGN FOR MOBILE & PAGING APPL
 GRU8375801 NMR SPECTROSCOPY FOR THE SUPPORT OF CHEMIST
 NOTTINGHAM
 GRU1512901 HIGH BANDWIDTH MOBILE MULTIMEDIA COMMUNICATION
 FOR FIELD ENGINEERS IN THE UTILITY INDUSTRY
 GRU17022801 FROM THE LARGE TO THE SMALL SCREEN – RETAINING THE
 DESIGNER'S DESIGN FOR EFFECTIVE USER INTERACTION
 GRU1707801 SOUND LANGUAGES UNDERPIN RELIABLE PROGRAMMING
 GRU2591901 LINKING DISTRIBUTED LINK SERVICES FOR MOBILE ENV
 REMARKABLE LINKING DISTRIBUTED LINK SERVICES FOR MOBILE ENV



ICT Perceptions EPSRC EP/I038845/1

T311 vs. T533



resources access information architecture tools building site development

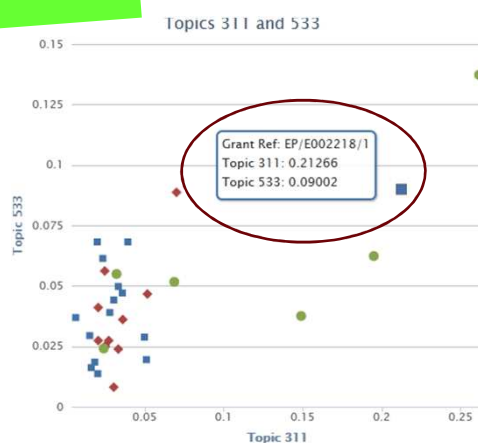
web

phones communication devices

mobile

ICT Perceptions EPSRC EP/I038845/1

T311 vs. T533



resources access information architecture tools building site development

web

phones communication devices

mobile

ICT Perceptions EPSRC EP/I038845/1

EP/E002218/1



EP/E002218/1 (EP SRC - UNCLASSIFIED - UNCLASSIFIED)

Title:	RAM: Reciprocal Interoperability between the Accessible and Mobile Webs
Link:	http://gow.epsrc.ac.uk/ViewGrant.aspx?GrantRef=EP/E002218/1
Most similar:	CORDIS257800 EP/F013701/1 CORDIS212430 EP/F013604/1 CORDIS215876 NSF1018804 EP/E062954/1 NSF1017771 NSF0857118 EP/E057081 EP/F002114/1 EP/F003757/1 NSF0751063 NSF1016334 NSF1008492 NSF1009392 NSF1009916 NSF076714 EP/I004246/1 NSF0834545 GRN043780/1 EP/G008493/1 GR/F281820/1 NSF0903859 CORDIS216937 GRN380808/01 GRN380808/02 CORDIS249687 GR/R1688401 NSF0817229
Topics:	311 (0.2127) 533 (0.06) 13 (0.0064) 448 (0.024) 406 (0.024) 587 (0.0193)
(Proportion):	588 (0.0193) 197 (0.0193) 140 (0.0193) 498 (0.0145)
Principal Investigator:	Dr S HARPER
Additional:	Professor I Horrocks

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EP/E002218/1



EP/E002218/1 (EP SRC - UNCLASSIFIED - UNCLASSIFIED)

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Most similar:	CORDIS257800 EP/F013701/1 CORDIS212430 EP/F013604/1 CORDIS215876 NSF1018804 EP/E062954/1 NSF1017771 NSF0857118 EP/E057081 EP/F002114/1 EP/F003757/1 NSF0751063 NSF1016334 NSF1008492 NSF1009392 NSF1009916 NSF076714 EP/I004246/1 NSF0834545 GRN043780/1 EP/G008493/1 GR/F281820/1 NSF0903859 CORDIS216937 GRN380808/01 GRN380808/02 CORDIS249687 GR/R1688401 NSF0817229
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Principal Investigator:	Dr S HARPER
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http://www.perceptions.org/?page_id=88&referringGrantRef=EP/E002218/1&grantRef=CORDIS257800

ICT Perceptions EPSRC EP/I038845/1



EP/E002218/1



EP/E002218/1



EP/E002218/1 (EP SRC - UNCLASSIFIED - UNCLASSIFIED)

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Link: <http://gow.epsrc.ac.uk/ViewGrant.aspx?GrantRef=EP/E002218/1>

Most similar: CORDIS257800 EP/F013701/1 CORDIS212 CORDIS215876 NSF1018024 EP/E062954/1 EP/E065708/1 EP/F002114/1 EP/F003757/1 NSF1008492 NSF1009392 NSF1009916 NSF1008454 GRN043780/1 EP/G008493/1 CORDIS216937 GRN380808/01 GRN380808/01 NSF0817229

Topics: 311 (0.2127) 533 (0.09) 13 (0.0064) 448 (0.02) (Proportion) 588 (0.0193) 197 (0.0193) 140 (0.0193) 498 (0.0193)

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Title: RAM: Reciprocal Interoperability between the Accessible and Mobile Webs

Link: <http://gow.epsrc.ac.uk/ViewGrant.aspx?GrantRef=EP/E002218/1>

Most similar: CORDIS257800 EP/F013701/1 CORDIS213430 EP/F013604/1 CORDIS215876 NSF1018024 EP/E062954/1 NSF1017771 NSF0867718 EP/E065708/1 EP/F002114/1 EP/F003757/1 NSF0751063 NSF1016334 NSF1008492 NSF1009392 NSF1009916 NSF1008454 GRN043780/1 EP/G008493/1 CORDIS216937 GRN380808/01 GRN380808/01 NSF0817229

Topics: 311 (0.2127) 533 (0.09) 13 (0.0064) 448 (0.02) (Proportion) 588 (0.0193) 197 (0.0193) 140 (0.0193) 498 (0.0193)

Principal Investigator: Dr S HARPER

Additional: Professor I Horrocks



ICT Perceptions EPSRC EP/I038845/1

Topic T543



imaging (1038) vision (884) objective (604) scene (512) camera (429)
 recognition (400) segmentation (382) visual (335) video (270) computer (242)
 algorithms (237) representation (199) categories (147) reconstruction (146) sequence (137)
 models (131) surveillance (129) interpretation (127) capture (123) shape (109)

ICT Perceptions EPSRC EP/I038845/1

Topic T588



features (1856) extraction (577) classification (496) based (390) proposed (346)
 classify (320) methods (222) approach (216) combination (145) construction (112)
 investigate (102) identify (84) selected (78) purpose (71) existing (69)
 successful (57) taxonomy (55) distinguish (55) development (55) set (54)

ICT Perceptions EPSRC EP/I038845/1

T543 vs. T588

Topic Plotter

Grants for topics [543](#) and [588](#) ([start again](#)).

EPIC0002631 Direct Range Image Processing (DRIP)
EPIC0002637 Automated Classification of Shoemarks for use in Forensic Science
EPIC0002643 LLR2 : Language Independent Le Reading
EPIC0002648 Face Recognition Using 3D Facial Stereo
EPIC0028845 Face Recognition using Photometric Stereo
EPIC0034201 Detection of Object Categories and Scenes
EPIC0042047 Advancing Machine Learning Methodology for New Classes of Prediction Problems
EPIC0042948 Image Processing, Machine Learning and Geometric Modelling for the 3D Representation of Solar Features
EPIC00429423 Knowledge Evaluation for Speech Correspondence
EPIC0043111 Hamiltonian Monte Carlo data clustering and classification
EPIC00525021 Multiscale Based Segmentation and Feature Analysis of Wrist Radiographs
EPIC00525014 A STRATEGY FOR VISUAL RECOGNITION OF 3D OBJECTS FROM A LIMITED IMAGE BASE
EPIC00571001 A SYSTEM FOR MULTIMODAL IMAGE REGISTRATION AND COMBINATION
EPIC0038801 A UNIFIED RELATION FRAMEWORK FOR INTERPRETING THE DIFFERENTIAL STRUCTURES OF 3D SCENES
EPIC0063701 A NOVEL LINEAR IMAGE PROCESSING FOR DIGITAL TELEVISION
EPIC00637010 STATISTICAL SHAPE MODELLING FOR VOLUME MEASUREMENT & DISEASE CLASSIFICATION FROM MEDICAL IMAGES
EPIC0080801 COMBINING SPATIALLY DISTRIBUTED PREDICTIONS FROM NEURAL NETWORKS
EPIC0080801 COMBINING SPATIALLY DISTRIBUTED PREDICTIONS FROM NEURAL NETWORKS



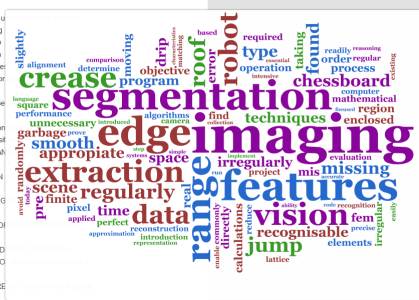
ICT Perceptions EPSRC EP/I038845/1

T543 vs. T588

Topic Plotter

Grants for topics [543](#) and [588](#) ([start again](#)).

EPC0009581 Direct Range Image Processing (DIRIP)
EPIC026751 Automated Classification of Shoemakers for
EPI0280474 LUIR2 - Language Independent Lip Reading
EPI0285851 Face Recognition using Photometric Stereo
EPI0291181 Face Recognition Using Local Binary Patterns
EPI0304201 Recognition of Object Categories and Scene
EPI0409421 Advancing Machine Learning Methodology for
Problems
EPI0528411 Image Processing, Machine Learning and Ge-
Representation of Social Features
EPI0529423 Multiscale Evaluation for Stereoscopic
EPI0411511 Handwritten-based data clustering and classification
EPI0529423 Edge Detection Based Segmentation An-
WREST RADIOSARs
GRG025801 A STRATEGY FOR VISUAL RECOGNITION
LOCAL MODEL BASE
GRH041761 A SYSTEM FOR MULTIMODAL IMAGE RE-
COGNITION
GRU038901 A UNIFIED RELAXATION FRAMEWORK FOR
DIFFERENTIAL STRUCTURES OF 3D SCENES
GRK0496703 NON LINEAR IMAGE PROCESSING FOR D
GENERALIZED STATISTICAL SHAPING AND FOR VOI
SCENE CLASSIFICATION FROM MEDICAL IMAGES
GRQ038081 COMBINING SPATIALLY DISTRIBUTED PERS
NETWORKS
GRV0258411 COMBINING SPATIAL CO-DISTRIBUTED DESCRIPTIONS FROM MULTISCALE



ICT Perceptions EPSRC EP/I038845/1

T543 vs. T588

Topic Plotter

Grants for topics 543 and 588 [\(start again\)](#)

EP/C006283/1 Direct Range Image Processing (DRIP)
 EP/C006282/1 Automated Classification of Shoemarks for use in Forensic Science
 EP/E028047/1 LLR2 - Language Independent Lip Reading
 EP/E028058/1 Face Recognition using Photometric Stereo
 EP/E028045/1 Face Recognition using Photometric Stereo
 EP/F005420/1 Recognition of Object Categories and Scenes
 EP/F00429/1 Advancing Machine Learning Methodology for Problems
 EP/F022948/1 Image Processing, Machine Learning and Geometric Representation of Solar Features
 EP/I029423/1 Multiscale Evaluation for Stereo Correspondence
 EP/H01811/1 Hamiltonian-based data clustering and classification
 GR/G52562/01 KNOWLEDGE BASED SEGMENTATION AND FEATURE ANALYSIS OF WRIST RADIOGRAPHS
 GR/G52550/1 A STRATEGY FOR VISUAL RECOGNITION OF 3D OBJECTS FROM A LARGE MODEL BASE
 GR/H481708/1 A SYSTEM FOR MULTI-MODAL IMAGE REGISTRATION AND COMBINATION
 GR/U05880/1 A UNIFIED RELAXATION FRAMEWORK FOR INTERPRETING THE DIFFERENTIAL STRUCTURES OF 3D SCENES
 GR/K4887/01 NON LINEAR IMAGE PROCESSING FOR DIGITAL TELEVISION
 GR/K63760/1 STATISTICAL SHAPE MODELLING FOR VOLUME MEASUREMENT & DISEASE CLASSIFICATION FROM MEDICAL IMAGES
 GR/L08880/1 COMBINING SPATIALLY DISTRIBUTED PREDICTIONS FROM NEURAL NETWORKS
 GR/L08880/1 COMBINING SPATIALLY DISTRIBUTED PREDICTIONS FROM NEURAL NETWORKS

shoemark

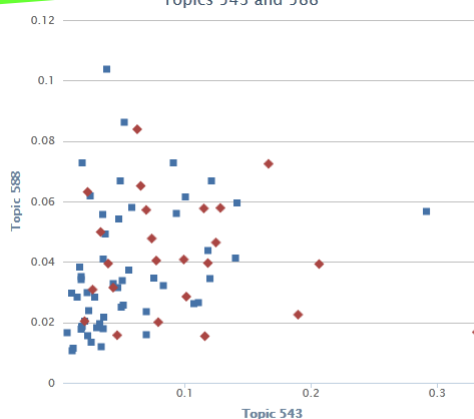
imaging
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 scene
 recognition
 segmentation
 algorithms
 computer
 visual
 camera
 objective
 video

features
 extraction
 based
 classification
 methods
 classify

ICT Perceptions EPSRC EP/I038845/1

T543 vs. T588

Topics 543 and 588

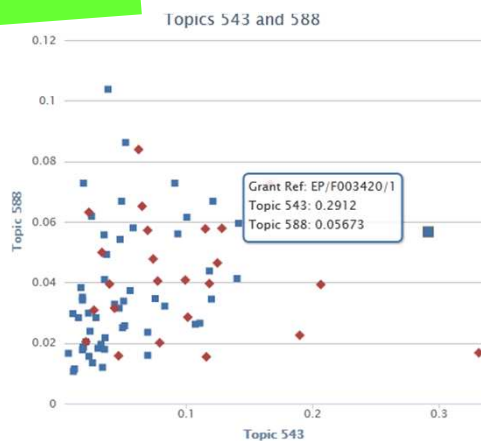


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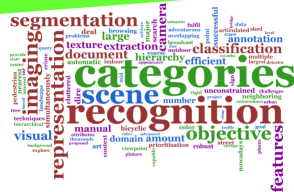
ICT Perceptions EPSRC EP/I038845/1

T543 vs. T588



ICT Perceptions EPSRC EP/I038845/1

EP/F003420/1



EP/F003420/1 (EPSRC – Information and Communications Technology – People and Interactivity)

Title: Recognition of Object Categories and Scenes

Link: <http://gow.epsrc.ac.uk/ViewGrant.aspx?GrantRef=EP/F003420/1>

Most similar: NSF0812188 NSF0747120 NSF0905402 NSF0747511 NSF0713185
NSF0904209 NSF0713406 NSF0713652 EP/G033935/1 NSF1016018
NSF1052768 NSF1000845 NSF1054127 GR/S03034/01 NSF0747356
NSF0845916 NSF0746069 NSF1018991 NSF1018967 NSF0905017
EP/G001700/1 GR/M027900/1 EP/F065781/1 NSF0817151
GR/E43881/01 GR/F58223/01 GR/N00166/01 NSF0816829
EP/C006283/1 GR/S27962/01

Topics: 543 (0.2912) 588 (0.0567) 250 (0.0341) 573 (0.0313) 527 (0.0285) 197

(Proportion): (0.02) 165 (0.02) 140 (0.02) 131 (0.02) 254 (0.0172)

Research: Image and Vision Computing

Areas:

Principal Investigator: Dr K Mikolajczyk

Starts: 01 May 2008

Ends: 30 April 2011

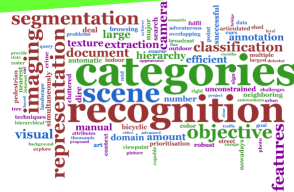
Value: £236,180

ICT Perceptions EPSRC EP/I038845/1

EP/F003420/1

EP/F003420/1

EP/F003420/1



EP/F003420/1 (EPSRC – Information and Communications Technology – People and Interactivity)

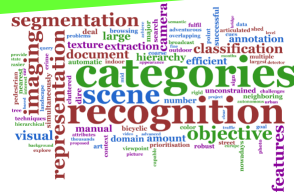
Title: Recognition of Object Categories and Scenes
 Link: <http://gow.epsrc.ac.uk/ViewGrant.aspx?GrantRef=EP/F003420/1>
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 NSF0904209 NSF0713406 NSF0713652 EPIC
 NSF1053768 NSF1000845 NSF1054127 GRU
 NSF0845916 NSF0746569 NSF1018891 NSF
 EPIC0017001 GRAM8279001 EP/F065787/1
 GR/E43881/01 GR/F58223/01 GR/N00166/01
 EPIC0002831 GR/S27962/01
 Topics: 543 (0.2912) 588 (0.0567) 250 (0.0341) 573 (0.02)
 (Proportion) (0.02) 165 (0.02) 140 (0.02) 131 (0.02) 254 (0.02)
 Research Areas: Image and Vision Computing
 Principal Investigator: Dr K Mikolajczyk
 Starts: 01 May 2008
 Ends: 30 April 2011
 Value: £236,180



http://researchperceptions.org/?page_id=88&referringGrantRef=EP/F003420/1&grantRef=EP/F003420/1

ICT Perceptions EPSRC EP/I038845/1

EP/F003420/1



EP/F003420/1 (EPSRC – Information and Communications Technology – People and Interactivity)

Title: Recognition of Object Categories and Scenes
 Link: <http://gow.epsrc.ac.uk/ViewGrant.aspx?GrantRef=EP/F003420/1>
 Most similar: NSF0812188 NSF0747120 NSF0905402 NSF0747511 NSF0713185
 NSF0904209 NSF0713406 NSF0713652 EPIC0019604 NSF0713652
 NSF1053768 NSF1000845 NSF1054127 GRU
 NSF0845916 NSF0746569 NSF1018891 NSF
 EPIC0017001 GRAM8279001 EP/F065787/1
 GR/E43881/01 GR/F58223/01 GR/N00166/01
 EPIC0002831 GR/S27962/01
 Topics: 543 (0.2912) 588 (0.0567) 250 (0.0341) 573 (0.02)
 (Proportion) (0.02) 165 (0.02) 140 (0.02) 131 (0.02) 254 (0.02)
 Research Areas: Image and Vision Computing
 Principal Investigator: Dr K Mikolajczyk
 Starts: 01 May 2008
 Ends: 30 April 2011
 Value: £236,180



http://researchperceptions.org/?page_id=575&referringGrantRef=EP/F003420/1&topic=5

ICT Perceptions EPSRC EP/I038845/1

EP/F003420/1



EP/F003420/1 (EPSRC – Information and Communications Technology – People and Interactivity)

Title: Recognition of Object Categories and Scenes

Link: <http://gow.epsrc.ac.uk/ViewGrant.aspx?GrantRef=EP/F003420/1>

Most similar: NSF0812188 NSF0747120 NSF0905402 NSF0904209 NSF0713406 NSF0713652 EPIC

NSF1003708 NSF1000845 NSF1054127 GRC

NSF0945915 NSF0746569 NSF1018891 NSF

EPIC00617001 GR/M8279001 EP/F0657871

GR/E4881/01 GR/F58223/01 GR/N00166/01

EPIC0062831 GR/S27962/01

Topics: 543 (0.2912) 588 (0.0567) 250 (0.0341) 573 (0.02)

(Proportion): 165 (0.02) 140 (0.02) 131 (0.02) 254 (0.02)

Research Areas: Image and Vision Computing

Principal Investigator: Dr K Mikolajczyk

Starts: 01 May 2008

Ends: 30 April 2011

Value: £236,180



ICT Perceptions EPSRC EP/I038845/1

People

Person Search

EPSRC Results:

Dr AC McLaughlin University of Aberdeen
Professor JA McLaughlin University of Ulster
[Professor S McLaughlin](#) University of Edinburgh

Other Results:

McLaughlin, Anne North Carolina State University
McLaughlin, Timothy Texas A&M Research Foundation

ICT Perceptions EPSRC EP/I038845/1

People

41

[illegible]

People

Link:	http://gow.epsrc.ac.uk/ViewPerson.aspx?PersonId=10012
Organisation:	University of Edinburgh
Department:	Digital Communications
Email:	steve.mclaughlin@ed.ac.uk
Telephone:	0131 6505578
Fax:	0131 6505554
Grants:	
EPI02327701	Biologically Inspired Acoustic Systems (BIAS)
EPI03550401	Optimising Resource Efficiency in Future Mobile Communications
EPI0693531	Visiting Fellowship in Signal Processing of Nonstationary Signals
EPI00095841	EPSRC/GVCE Strategic Partner
EPI0005851	Multicrate Modelling to maximise Management (Part 2)
EPH115041	Community Organisation of Ev-Mobile Computing and Networking with EPSRC
GRY5817201	NON-LINEAR METHODS FOR AND CODING
GR05480201	NONLINEAR METHODS IN A
GRJ0258601	TEACHING COMPANY PROX
EDM00R01UNIV	WOLFSON MICRO
GRJ0276201	ANALYSIS & MODELLING OF SYSTEMS
GRM1485201	TECHNIQUES FOR BROAD NONLINEAR FILTERING (COBALT)
GRM5788001	A TWO DIMENSIONAL SYSTEM CAPACITY AND ASYMMETRY OF IMT - 200
GRN2287801	COILED TUBING DEPLOYER FOR HI-RESOLUTION SEISMIC MAPPING
GRN7546001	RCPA: Multi-user detection for FDSS transceivers
GRS0567801	Platform Grant: Signal processing for communications and multimedia

Topics (count in grants):

- 151 (5) 235 (4) 599 (1) 562 (1) 408 (3) 598 (3) 597 (1) 596 (1) 453 (2) 552
- (2) 130 (2) 353 (2) 468 (2) 418 (2) 533 (2) 478 (2) 472 (2) 428 (1) 233 (1)
- 317 (1) 549 (1) 124 (1) 222 (1) 246 (1) 335 (1) 585 (1) 494 (1) 399 (1) 42
- (1) 63 (1) 191 (1) 531 (1) 579 (1) 542 (1) 571 (1) 28 (1) 247 (1) 435 (1)
- 294 (1) 546 (1) 538 (1) 589 (1) 559 (1) 569 (1) 112 (1) 112 (1) 582 (1) 180

The word cloud contains the following terms: ideas, recognition, compression, parameters, handling, recent, find, natural, stationary, temporal, varying, tendency, waveform, bit, published, strive, estimation, nonstationary, instantaneous, resolution, reported, focus, capture, text, visit, compact, fellowship, representation, quality, years, obtained.

<http://research.gow.epsrc.ac.uk/TopicList.do?grantRef=EPI03031>

ICT Perceptions EPSRC EP/I038845/F

People > Grant

Link: <http://gow.epsrc.ac.uk/ViewPerson.aspx?PersonId=10612>

Organisation: University of Edinburgh

Department: Digital Communications

Email: steve.mclaughlin@ed.ac.uk

Telephone: 0131 6505578

Fax: 0131 6505554

Grants:

EP/C52377/01 Biologically Inspired Acoustic Systems (BIAS)

EP/D053048/1 Optimising Resource Efficiency in Future Mobile Communications

EP/F069535/1 Visiting Fellowship in Signal Processing of Nonstationary Signals

EP/I0000584/1 EPSRC/VC Strategic Partnership: Green Radio

EP/I0000585/1 Multiscale Modelling to maximise Demand Side Management (Part 2)

EP/H015004/1 Community Organisations of Experts in Communications, Mobile Computing and Networking with EPSRC ICT Portfolio

GR/F58172/01 NON-LINEAR METHODS FOR SIGNAL PREDICTION AND CODING

GR/G64862/01 NON-LINEAR METHODS IN ADAPTIVE EQUALISATION

GR/J25860/01 TEACHING COMPANY PROGRAMME BETWEEN EDINBURGH UNIV AND WOLFSON MICROELECTRONICS LTD

GR/L62762/01 ANALYSIS & MODELLING OF IMPULSE NOISE IN XDSL SYSTEMS

GR/M14852/01 TECHNIQUES FOR BROADCAST TELEVISION IN NON-LINEAR FILTERING (COBALT)

GR/M5886/01 A TDO UNDERLAY SYSTEM TO ENHANCE THE CAPACITY AND ASYMMETRY OF MT - 2000 CDMA SYSTEMS

GR/N2878/01 COILED TUBING DEPLOYED TRANSDUCER ARRAYS FOR H₂ RESOLUTION SEISMIC MAPPING OF RESERVOIRS

GR/R75960/01 ROPAL: Multi-user detection for xDSL transceivers

GR/S06276/01 Platform Grant: Signal processing for communications and multimedia

Topics (count in grants): 151 (5) 235 (4) 589 (3) 562 (3) 498 (3) 598 (3) 597 (3) 596 (3) 453 (2) 552 (2) 130 (2) 353 (2) 498 (2) 418 (2) 533 (2) 478 (2) 472 (2) 428 (1) 233 (1) 317 (1) 549 (1) 124 (1) 222 (1) 246 (1) 335 (1) 586 (1) 494 (1) 399 (1) 42 (1) 63 (1) 191 (1) 531 (1) 579 (1) 542 (1) 371 (1) 28 (1) 247 (1) 435 (1) 294 (1) 548 (1) 530 (1) 589 (1) 559 (1) 569 (1) 12 (1) 112 (1) 982 (1) 180

ICT Perceptions EPSRC EP/I038845/1

Grant

EP/C52377/01 (EP SRC - UNCLASSIFIED - UNCLASSIFIED)

Title: Biologically Inspired Acoustic Systems (BIAS)

Link: <http://gow.epsrc.ac.uk/ViewGrant.aspx?GrantRef=EP/C52377/01>

Most similar:

CORDS215370 EP/H01507/01 GR/N33736/01 EP/H01508/01

GR/S72177/01 GR/S47021/01 GR/F88086/01 GR/A01213/01

CORDS226007 EP/I0009767/1 EP/I0009767/1 EP/I0010827/1

GR/L88020/01 GR/G25832/01 GR/H14705/01 GR/L8808/01

GR/L8815/01 GR/R0581/01 GR/G01010/01 GR/L82102/01

GR/M30940/01 GR/S06276/01 GR/S06276/01 GR/L88037/01 GR/N03128/01

GR/L20382/01 GR/S01979/01 GR/G36128/01 GR/G18100/01

EP/D054729/1 EP/D056721/1

Topics (Proportion): 427 (0.0636) 342 (0.051) 540 (0.0468) 291 (0.0341) 478 (0.0299) 319 (0.0299) 255 (0.0299) 267 (0.0299) 71 (0.0299) 271 (0.0257)

ICT Perceptions EPSRC EP/I038845/1



Topic

Topic Details



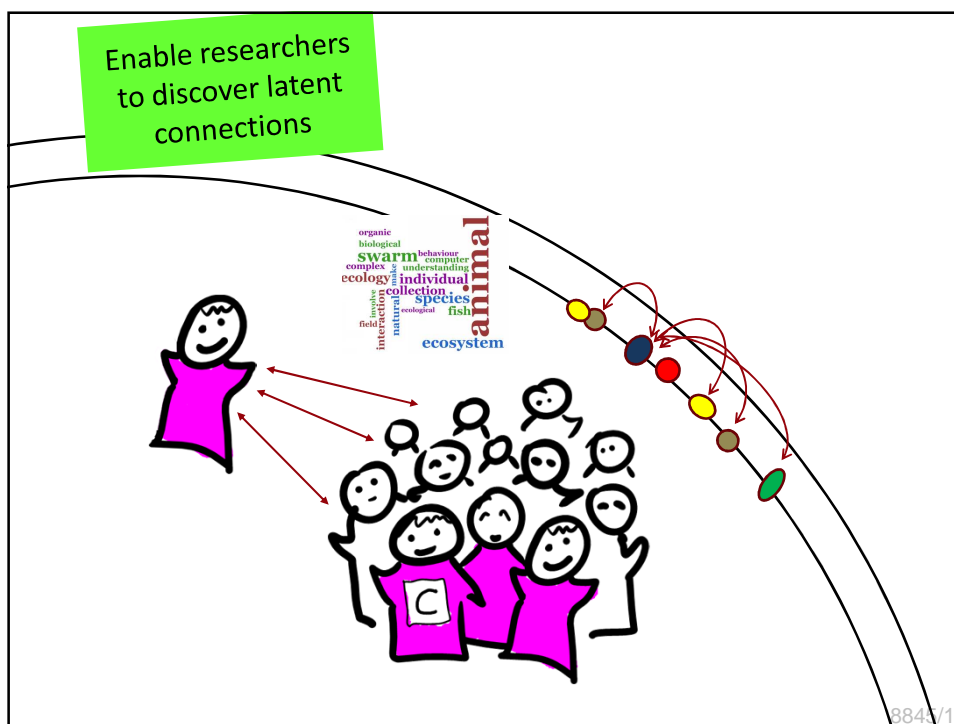
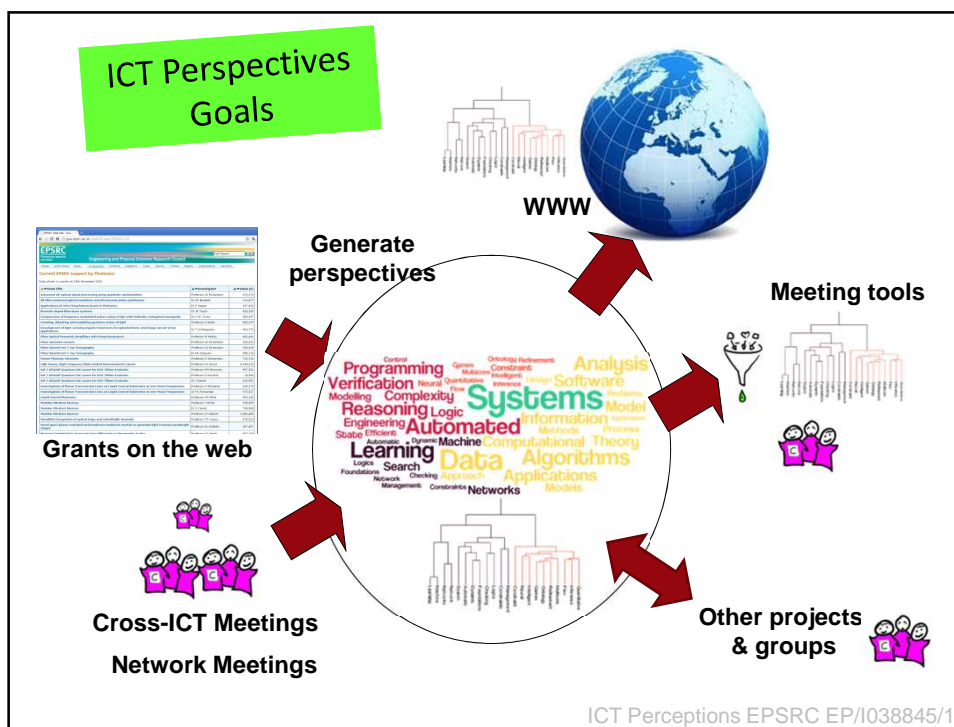
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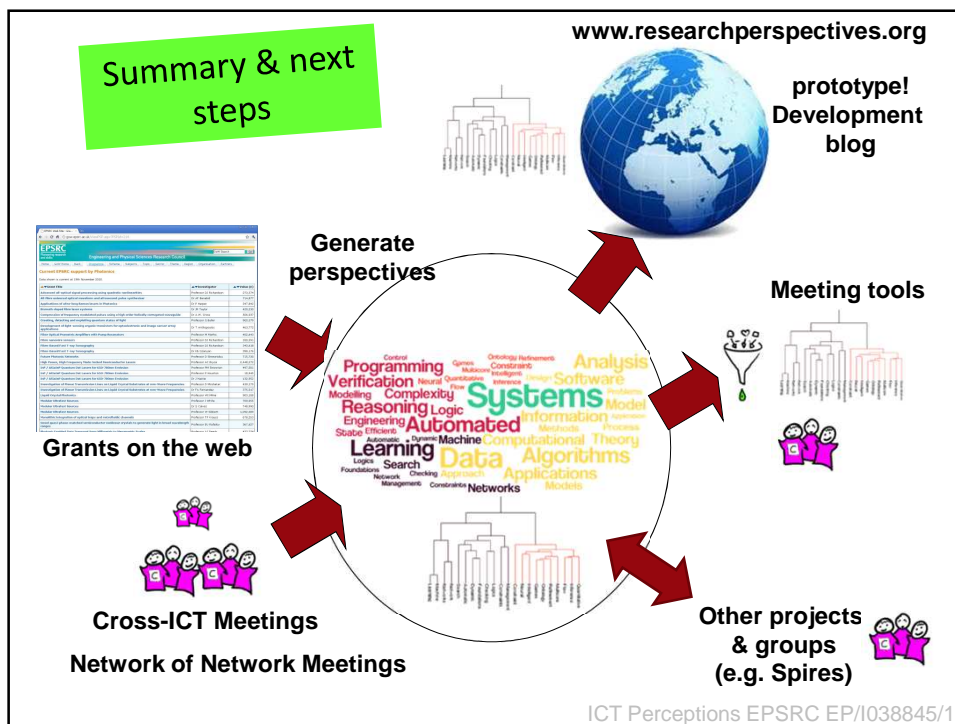
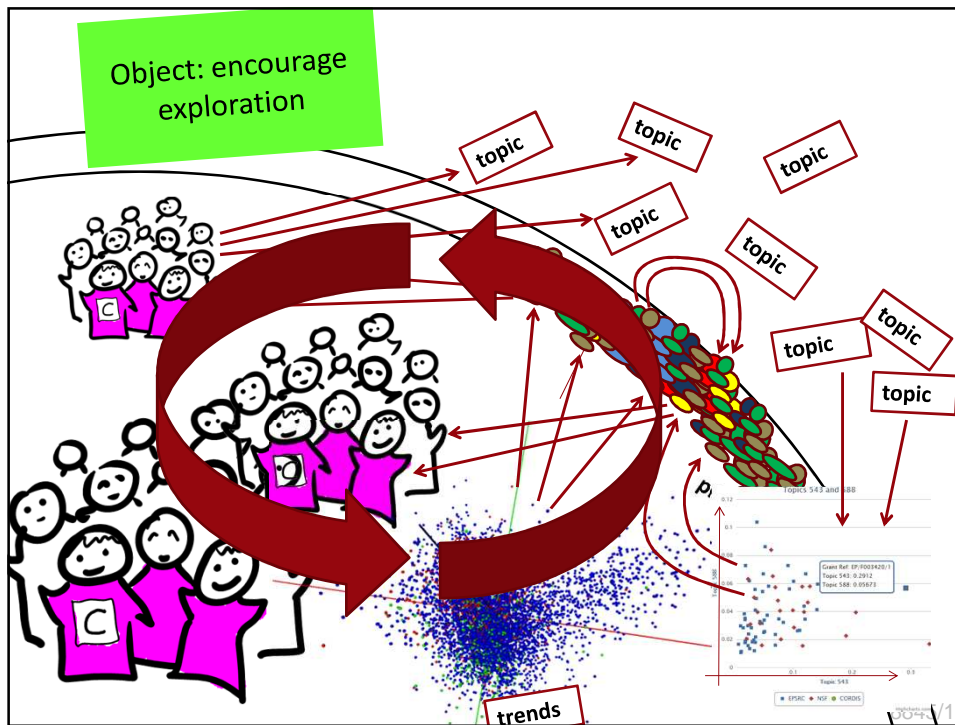
Words: **animal** (367) swarm (187) ecosystem (167) species (160) individual (142) ecology (140) fish (129) collection (129) interaction (116) natural (115) complex (97) computer (95) **understanding** (94) **biological** (90) **organic** (89) **make** (86) field (85) behaviour (83) involve (82) ecological (71)

Key: GR/T11753/01 GR/T11784/01 GR/T11777/01 GR/T11760/01 EPIH028862/
Grants: EPIH017143/1 NSF092575/1 NSF0916035 NSF0926148 GR/T11258/01
GR/T11272/01 GR/T11241/01 EPIF009766/1 GR/T11265/01 GR/T11234/01
EPI/D076226/1 NSF0705765 NSF0608624 EPI026959/1 CORDIS270382

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