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@ARTICLE{Aalst2003,
  author = {Aalst, WMP van Der and Hofstede, AHM Ter and B},
  title = {{Workflow patterns}},
  journal = {Distributed and parallel databases},
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  author = {Aldeco-P\'{e}rez, Rocio and Moreau, Luc},
  title = {{Information Accountability supported by a Provenance-based Compliance
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  booktitle = {UK e-Science All Hands Meeting},
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  booktitle = {International Academic Research Conference, Visions of Computer Science},
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@INPROCEEDINGS{DBLP:conf/ipaw/AltintasBJ06,
  author = {Altintas, I and Barney, O and Jaeger-Frank, E},
  title = {{Provenance Collection Support in the Kepler Scientific Workflow
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  booktitle = {IPAW},
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@INPROCEEDINGS{Sergio-Alvarez:2006oz,
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  author = {Alvarez, J Sergio and Vazquez-Salceda, T and Varga, L Kifor and Willmott,
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@INPROCEEDINGS{Manish-Anand:2009gb,
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@ARTICLE{artz-gil-jws07,
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@INPROCEEDINGS{Zhuowei-Bao:2009hq,
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@ARTICLE{Barga:2008wq,
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  title = {{Automatic capture and efficient storage of e-Science experiment
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@INPROCEEDINGS{DBLP:conf/ppam/BarkerH07,
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  title = {{Scientific Workflow: A Survey and Research Directions}},
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  year = {2007},
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  title = {{Zoom*UserViews: Querying Relevant Provenance in Workflow Systems}},
  booktitle = {VLDB},
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@MISC{DBLP:conf/icde/BitonBDH08,
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  title = {{Querying and Managing Provenance through User Views in Scientific
    workflow}},
  year = {2008},
  abstract = {Workflow systems have become increasingly popular for managing experiments
    where many bioinformatics tasks are chained together. Due to the
    large amount of data generated by these experiments and the need
    for reproducible results, provenance has become of paramount importance.
    Workflow systems are therefore starting to provide support for querying
    provenance. However, the amount of provenance information may be
    overwhelming, so there is a need for abstraction mechanisms to help
    users focus on the most relevant information. The technique we pursue
    is that of "user views". Since bioinformatics tasks may themselves
    be complex sub-workflow, a user view determines what level of sub-workflow
    the user can see, and thus what data and tasks are visible in provenance
    queries. In this paper, we formalize the notion of user views, demonstrate
    how they can be used in provenance queries, and give an algorithm
    for generating a user view based on which tasks are relevant for
    the user. We then describe our prototype and give performance results.
    Although presented in the context of scientific workflow, the technique
    applies to other data-oriented workflow.},
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@PHDTHESIS{Bizer2007,
  author = {Bizer, Christian},
  title = {{Quality-Driven Information Filtering in the Context of Web-Based
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@ARTICLE{blanchi2001,
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@ARTICLE{Bleiholder2008,
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@ARTICLE{IPAW06,
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  year = {2005},
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@ARTICLE{Bowers2008a,
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  title = {{A model for user-oriented data provenance in pipelined scientific
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    B},
  title = {{Kepler/pPOD: Scientific workflow and provenance support for assembling
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  booktitle = {Procs. Provenance and Annotation of Data and Processes (IPAW)},
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  year = {2006},
  pages = {195--203},
  abstract = {Curated scientific databases such as the IUPHAR database resemble
    conventional publications such as reference manuals in that they
    represent the work of a large number of people who both create and
    revise their contents. The difference is that curated databases have
    more internal structure and that they change more for supporting
    citation of data: there are few standards, there is little supporting
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  title = {{A Deterministic Model for Semistructured Data}},
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@INPROCEEDINGS{DBLP:conf/icdt/BunemanKT01,
  author = {Buneman, Peter and Khanna, S and Tan, W Chiew},
  title = {{Why and Where: A Characterization of Data Provenance}},
  booktitle = {ICDT},
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  title = {{Semantically Annotated Provenance in the Life Science Grid}},
  booktitle = {1st International Workshop on the Role of Semantic Web in Provenance
    Management},
  year = {2009},
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  title = {{WhyNot: Debugging Failed Queries in Large Knowledge Bases}},
  booktitle = {Proc. of the 14th Innovative Applications of Artificial Intelligence
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  abstract = {Knowing the origin of data (i.e., where the data was copied or created
    from)—its provenance—is vital for assessing the trustworthiness
    of contemporary scientific databases such as UniProt [16] and SWISS-
    PROT [14]. Unfortunately, provenance information must currently be
    recorded manually, by added effort of the database maintainer. Since
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@INPROCEEDINGS{DBLP:conf/sigmod/ChapmanJR08,
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  pages = {993--1006},
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  title = {{PDS -- A Three-Dimensional Data Structure for Proof Plans}},
  booktitle = {Proceedings of the International Conference on Artificial and Computational
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  booktitle = {Proceedings of the 11th International Symposium on Database Programming
    Languages (DBPL 2007, LNCS 4797)},
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  editor = {Arenas, Marcelo and Schwartzbach, Michael},
  pages = {138--152},
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  title = {{Provenance Explorer—Customized Provenance Views Using Semantic
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  booktitle = {Procs. ISWC 2006},
  year = {2006},
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  file = {:C$\backslash$:/Users/Dani/AppData/Local/Mendeley Ltd./Mendeley
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  author = {Cheung, William and Gil, Yolanda},
  title = {{Towards Privacy Aware Data Analysis workflow for e-Science}},
  booktitle = {2007 Workshop on Semantic e-Science (SeS2007), held in conjunction
    with the Twenty-Second Conference of the Association for the Advancement
    of Artificial Intelligence (AAAI), Vancouver, British Columbia, Canada,
    July 22-26},
  year = {2007},
  keywords = {\#prov-xg,\#trust,\#use},
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  url = {http://www.isi.edu/\~{}gil/papers/cheung-gil-aaai-ses-07.pdf}
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  author = {Clifford, Ben and Foster, Ian T and V\"{o}ckler, Jens-S. and Wilde,
    Michael and Zhao, Yong},
  title = {{Tracking provenance in a virtual data grid}},
  journal = {Concurrency and Computation: Practice and Experience},
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  author = {Cohen, Shirley and Cohen-Boulakia, S and Davidson, Susan B},
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  year = {2006},
  pages = {264--279},
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  author = {Cowell, Andrew. J and McGuinness, Deborah L and Varley, Carrie F
    and Thurman, David A},
  title = {{Knowledge-Worker Requirements for Next Generation Query Answering
    and Explanation Systems}},
  booktitle = {Proceedings of the Workshop on Intelligent User Interfaces for Intelligence
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  author = {{Creative Commons}},
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@MISC{CreativeCommons2009,
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  journal = {ACM Transactions on Database Systems},
  year = {2000},
  volume = {25},
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  booktitle = {danbri's foaf stories},
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    B},
  title = {{Provenance in scientific workflow systems}},
  booktitle = {Proc.s IEEE Data Eng.},
  year = {2007},
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  file = {:C$\backslash$:/Users/Dani/AppData/Local/Mendeley Ltd./Mendeley
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  title = {{Provenance and Scientific workflow: Challenges and Opportunities}},
  booktitle = {Proc.s SIGMOD Conference},
  year = {2008},
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    Sarah Cohen},
  title = {{Privacy issues in scientific workflow provenance}},
  booktitle = {First International Workshop on Workflow Approaches to New Data-centric
    Science (WANDS'10)},
  year = {2010},
  editor = {Missier, Paolo and Curcin, Vasa and Dadvidson, Susan},
  address = {Indianapolis},
  publisher = {ACM},
  abstract = {A scientific workflow often deals with proprietary modules as well
    as private or confidential data, such as health or medical information.
    Hence providing exact answers to provenance queries over all executions
    of the workflow may reveal private information. In this paper we
    first study the potential privacy issues in a scientific workflow
    -- module privacy, data privacy, and provenance privacy, and frame
    several natural questions: (i) can we formally analyze module, data
    or provenance privacy giving provable privacy guarantees for an unlimited/bounded
    number of provenance queries? (ii) how can we answer provenance queries,
    providing as much information as possible to the user while still
    guaranteeing the required privacy? Then we look at module privacy
    in detail and propose a formal model from our recent work in [11].
    Finally we point to several directions for future work.},
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  title = {{Looking into the Future of workflow: The Challenges Ahead}},
  year = {2007},
  author = {Deelman, Ewa},
  booktitle = {workflow for e-Science},
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  title = {{Metadata and Provenance Management}},
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  year = {2009},
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  edition = {1},
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  editor = {Taylor, Ian J. and Deelman, Ewa and Gannon, Dennis B. and Shields,
    Matthew},
  author = {Deelman, Ewa and Mehta, Gaurang and Singh, Gurmeet and Su, MH and
    Vahi, Karan},
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@TECHREPORT{delrio2007,
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  year = {2007},
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  year = {2010},
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  author = {Edwards, Peter and Farrington, John and Mellish, Chris and Philip,
    Lorna and Chorley, Alison},
  title = {{e-Social Science and Evidence-Based Policy Assessment: Challenges
    and Solutions}},
  journal = {Social Science Computer Review.},
  year = {2009},
  volume = {27},
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  keywords = {\#disease\_outbreak,\#evidence,\#provenance,\#use},
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  author = {Eker, Johan and Janneck, JW and Lee, EA and Liu, J and Liu, Xiaojun
    and Ludvig, Jozsef and S},
  title = {{Taming heterogeneity-the Ptolemy approach}},
  journal = {Proceedings of the IEEE},
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  author = {Felty, Amy and Miller, Dale},
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  author = {Fikes, Richard and Marwick, A and Thurman, David},
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@INPROCEEDINGS{Flouris2009,
  author = {Flouris, G. and Fundulaki, I. and Pediaditis, P. and Theoharis, Y.
    and Christophides, V.},
  title = {{Coloring RDF Triples to Capture Provenance}},
  booktitle = {Procs. ISWC},
  year = {2009},
  pages = {196--212},
  abstract = {Recently, the W3C Linking Open Data effort has boosted the pub- lication
    and inter-linkage of large amounts of RDF datasets on the Semantic
    Web. Various ontologies and knowledge bases with millions of RDF
    triples from Wikipedia and other sources, mostly in e-science, have
    been created and are publicly available. Recording provenance information
    of RDF triples aggregated from different heterogeneous sources is
    crucial in order to effectively support trust mechanisms, digital
    rights and privacy policies. Managing provenance be- comes even more
    important when we consider not only explicitly stated but also implicit
    triples (through RDFS inference rules) in conjunction with declarative
    languages for querying and updating RDF graphs. In this paper we
    rely on col- ored RDF triples represented as quadruples to capture
    and manipulate explicit provenance information.},
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@INPROCEEDINGS{Foster2008a,
  author = {Foster, J Nathan and Green, Todd J and Tannen, Val},
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  year = {2008},
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  author = {{Frank Nack} and {Jacco van Ossenbruggen} and {Lynda Hardman}},
  title = {{That Obscure Object of Desire: Multimedia Metadata on the Web (Part
    II)}},
  booktitle = {IEEE Multimedia},
  year = {2005},
  pages = {Volume 12},
  keywords = {\#News\_Aggregator,\#content,\#object},
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@INPROCEEDINGS{DBLP:conf/sigmod/CallahanFSSSV06,
  author = {Freire, Juliana and Callahan, S P and Santos, E and Scheidegger,
    C E and Silva, Cl\'{a}udio T and Vo, H T},
  title = {{VisTrails: visualization meets data management}},
  booktitle = {SIGMOD Conference},
  year = {2006},
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  doi = {http://doi.acm.org/10.1145/1142473.1142574},
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@ARTICLE{Freire:2008,
  author = {Freire, Juliana and Koop, David and Santos, Emanuele and Silva, Cl\'{a}udio
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  title = {{Provenance for Computational Tasks: A Survey}},
  journal = {Computing in Science and Engineering},
  year = {2008},
  volume = {10},
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@INPROCEEDINGS{J.-Freire:2006xd,
  author = {Freire, Juliana and Silva, C T and Callahan, S P and Santos, E and
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  title = {{Managing rapidly-evolving scientific workflow}},
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@ARTICLE{Gil2007,
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  title = {{Examining the Challenges of Scientific workflow}},
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  title = {{Reasoning about the Appropriate Use of Private Data through Computational
    workflow}},
  booktitle = {AAAI Spring Symposium on Privacy Management, Stanford, CA, March
    23-25},
  year = {2010},
  keywords = {\#prov-xg,\#trust,\#use},
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  url = {http://www.isi.edu/\~{}gil/papers/gil-fritz-aaaisss10.pdf}
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  title = {{Expressive Reusable Workflow Templates}},
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  address = {Oxford, UK},
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  title = {{Trusting Information Sources One Citizen at a Time}},
  booktitle = {Proceedings of the First International Semantic Web Conference (ISWC)},
  year = {2002},
  address = {Sardinia, Italy},
  file = {:C$\backslash$:/Users/Dani/AppData/Local/Mendeley Ltd./Mendeley
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  title = {{IKRAFT: Interactive Knowledge Representation and Acquisition from
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  booktitle = {Proceedings of the 13th International Conference, EKAW 2002, Siguenza,
    Spain, October 1-4, 2002},
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  author = {Giunchiglia, Fausto and Shvaiko, Pavel},
  title = {{Semantic matching}},
  institution = {CEUR - WS},
  year = {2003},
  number = {Vol. 71},
  keywords = {\#comparison,\#use},
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  author = {Glass, Alyssa and McGuinness, Deborah L and {Pinheiro Da Silva},
    Paulo and Wolverton, Michael},
  title = {{Trustable Task Processing Systems}},
  journal = {KI},
  year = {2008},
  volume = {22},
  pages = {12--18},
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  keywords = {\#InferenceWeb,\#PML,\#TaskProcessing,\#trust,\#use},
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  author = {Gomez-Rodriguez, Manuel and Leskovec, Jure and Krause, Andreas},
  title = {{Inferring Networks of Diffusion and Influence}},
  booktitle = {Proceedings of the 16th ACM SIGKDD International Conference on Knowledge
    Discovery and Data Mining},
  year = {2010},
  volume = {Proceeding},
  pages = {1019--1028},
  month = jun,
  abstract = {Information diffusion and virus propagation are fundamental processes
    talking place in networks. While it is often possible to directly
    observe when nodes become infected, observing individual transmissions
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    difficult. Furthermore, in many applications, the underlying network
    over which the diffusions and propagations spread is actually unobserved.
    We tackle these challenges by developing a method for tracing paths
    of diffusion and influence through networks and inferring the networks
    over which contagions propagate. Given the times when nodes adopt
    pieces of information or become infected, we identify the optimal
    network that best explains the observed infection times. Since the
    optimization problem is NP-hard to solve exactly, we develop an efficient
    approximation algorithm that scales to large datasets and in practice
    gives provably near-optimal performance. We demonstrate the effectiveness
    of our approach by tracing information cascades in a set of 170 million
    blogs and news articles over a one year period to infer how information
    flows through the online media space. We find that the diffusion
    network of news tends to have a core-periphery structure with a small
    set of core media sites that diffuse information to the rest of the
    Web. These sites tend to have stable circles of influence with more
    general news media sites acting as connectors between them.},
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  author = {Green, Todd J.},
  title = {{Containment of conjunctive queries on annotated relations}},
  journal = {Proceedings of the 12th International Conference on Database Theory
    - ICDT '09},
  year = {2009},
  volume = {00},
  pages = {296},
  address = {New York, New York, USA},
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relations.pdf:pdf},
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  url = {http://portal.acm.org/citation.cfm?doid=1514894.1514930}
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  author = {Green, Todd J. and Karvounarakis, G. and Tannen, V.},
  title = {{Provenance Semirings}},
  booktitle = {PODS},
  year = {2007},
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booktitle = {VLDB},
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title = {{Provenance of e-Science Experiments - experience from Bioinformatics}},
booktitle = {OST e-Science Second All Hands Meeting 2003 (AHM'03)},
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editor = {Cox, Simon},
address = {Nottingham, UK},
month = sep,
keywords = {\#disease_outbreak,\#workflow-provenance},
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booktitle = {The 4th Workshop on workflow in Support of Large-Scale Science},
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booktitle = {Proceedings of the Tenth Annual Workshop on Engineering Societies
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  author = {Groth, Paul and Miles, Simon and Moreau, L},
  title = {{A model of process documentation to determine provenance in mash-ups}},
  journal = {ACM Transactions on Internet Technology (TOIT)},
  year = {2009},
  volume = {V},
  pages = {1--30},
  number = {December},
  keywords = {\#News\_Aggregator,\#content,\#object,\#pasoa,\#process},
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  url = {http://portal.acm.org/citation.cfm?id=1462162}
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  author = {Groth, Paul and Miles, Simon and Tan, V and Moreau, L},
  title = {{Architecture for Provenance Systems}},
  institution = {University of Southampton},
  year = {2005},
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  author = {Hartig, Olaf},
  title = {{Querying Trust in RDF Data with tSPARQL}},
  booktitle = {Proceedings of the 6th European Semantic Web Conference (ESWC)},
  year = {2009},
  address = {Heraklion, Greece},
  abstract = {Today a large amount of RDF data is published on the Web. However,
    the openness of the Web and the ease to combine RDF data from different
    sources creates new challenges. The Web of data is missing a uniform
    way to assess and to query the trustworthiness of information. In
    this paper we present tSPARQL, a trust-aware extension to SPARQL.
    Two additional keywords enable users to describe trust requirements
    and to query the trustworthiness of RDF data. Hence, tSPARQL allows
    adding trust to RDF-based applications in an easy manner. As the
    foundation we propose a trust model that associates RDF statements
    with trust values and we extend the SPARQL semantics to access these
    trust values in tSPARQL. Furthermore, we discuss opportunities to
    optimize the execution of tSPARQL queries.},
  keywords = {\#trust,\#use},
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  booktitle = {Proceedings of the Linked Data on the Web (LDOW) Workshop at WWW},
  year = {2009},
  address = {Madrid, Spain},
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@INPROCEEDINGS{Olaf2009a,
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  title = {{Using Web Data Provenance for Quality Assessment}},
  booktitle = {Proceedings of the 1st Int. Workshop on the Role of Semantic Web
    in Provenance Management (SWPM) at ISWC},
  year = {2009},
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  author = {Hasan, Ragib and Sion, Radu and Winslett, Marianne},
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  booktitle = {FAST},
  year = {2009},
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  url = {http://www.usenix.org/events/fast09/tech/full\_papers/hasan/hasan.pdf}
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  title = {{Graphs-at-a-time: query language and access methods for graph databases}},
  booktitle = {SIGMOD Conference},
  year = {2008},
  pages = {405--418},
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  journal = {Business Process Management},
  year = {2007},
  pages = {320--327},
  abstract = {Most information systems that are driven by process models (e.g.,
    workflow management systems) record events in event logs, also known
    as transaction logs or audit trails. We consider processes that not
    only keep track of their history in a log, but also make decisions
    based on this log. Extending our previous work on history-dependent
    Petri nets we propose and evaluate a methodology for modelling processes
    by such nets and show how history-dependent nets can combine modelling
    comfort with analysability.},
  doi = {http://dx.doi.org/10.1007/978-3-540-75183-0_23},
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  month = oct,
  year = {2001},
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  title = {{A Metadata Registry for the Semantic Web}},
  journal = {D-Lib Magazine},
  year = {2002},
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  title = {{Efficient Lineage Tracking For Scientific workflow}},
  booktitle = {Proceedings of the 2008 ACM SIGMOD conference},
  year = {2008},
  pages = {1007--1018},
  file = {:C$\backslash$:/Users/Dani/AppData/Local/Mendeley Ltd./Mendeley
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  title = {{Towards a Calculus for Collection-Oriented Scientific workflow
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  year = {2008},
  pages = {374--391},
  file = {:C$\backslash$:/Users/Dani/AppData/Local/Mendeley Ltd./Mendeley
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  author = {Hirai, Jun and Raghavan, Sriram and Garcia-Molina, Hector and Paepcke,
    Andreas},
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  journal = {Computer Networks},
  year = {2000},
  volume = {33},
  pages = {277--293},
  number = {1-6},
  month = may,
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  journal = {Concurrency and Computation: Practice and Experience},
  year = {2008},
  volume = {20},
  pages = {531--540},
  doi = {http://dx.doi.org/10.1002/cpe.1227},
  keywords = {\#content,\#management,\#provenance},
  mendeley-tags = {\#content,\#management,\#provenance},
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  year = {1994},
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  pages = {965--972},
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  booktitle = {WebDB},
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    Workflow in Grid Systems)},
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  year = {2007},
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  booktitle = {The 2nd Social Data on the Web workshop (SDoW2009)},
  year = {2009},
  keywords = {\#content,\#evolution,\#publication,\#understanding,\#use},
  mendeley-tags = {\#content,\#evolution,\#publication,\#understanding,\#use},
  url = {http://www.cs.rpi.edu/\~{}baojie/pub/2009-07-20\_sdow.pdf}
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  title = {{Authorship attribution}},
  journal = {Foundations and Trends in Information Retrieval},
  year = {2006},
  volume = {1},
  pages = {233--334},
  number = {3},
  abstract = {Authorship attribution, the science of inferring characteristics of
    the author from the characteristics of documents written by that
    author, is a problem with a long history and a wide range of application.
    Recent work in "non-traditional" authorship attribution demonstrates
    the practicality of automatically analyzing documents based on authorial
    style, but the state of the art is confusing. Analyses are difficult
    to apply, little is known about type or rate of errors, and few "best
    practices" are available. In part because of this confusion, the
    field has perhaps had less uptake and general acceptance than is
    its due. This review surveys the history and present state of the
    discipline, presenting some comparative results when available. It
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    shows, first, that the discipline is quite successful, even in difficult
    cases involving small documents in unfamiliar and less studied languages;
    it further analyzes the types of analysis and features used and tries
    to determine characteristics of well-performing systems, finally
    formulating these in a set of recommendations for best practices.},
  issn = {1554-0669},
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  year = {2010},
  pages = {951},
  address = {New York, New York, USA},
  publisher = {ACM Press},
  doi = {10.1145/1807167.1807269},
  file = {:C$\backslash$:/Users/Dani/AppData/Local/Mendeley Ltd./Mendeley
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  isbn = {9781450300322},
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  year = {2006},
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@ARTICLE{CCPE07-Provenance,
  author = {Kim, Jihie and Deelman, Ewa and Gil, Yolanda and Mehta, Gaurang and
    Ratnakar, Varun},
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  number = {5},
  howpublished = {Concurrency and Computation: Practice and Experience, Special Issue
    on the First Provenance Challenge,},
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  mendeley-tags = {\#CURATE\_ME,\#proof\_theroy}
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  booktitle = {(KCAP) Workshop on Knowledge Markup and Semantic Annotation},
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  mendeley-tags = {\#untagged},
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  number = {1},
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    and C. Halaschek-Wiener and E. Mannens and R. Troncy}},
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  year = {2007},
  institution = {W3C Multimedia Semantics Incubator Group},
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  address = {Sanibel Island, FL, USA},
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  mendeley-tags = {\#untagged},
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  mendeley-tags = {\#Explanation,\#InferenceWeb,\#PML,\#understanding,\#escience}
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  title = {{Explaining Reasoning in Description Logics}},
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  year = {1996},
  keywords = {\#DescriptionLogic,\#Entailment,\#Explanation,\#Justification,\#proof\_theory},
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  month = aug,
  publisher = {Morgan Kaufmann},
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  organization = {Knowledge Systems Laboratory, Stanford University},
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  year = {2006},
  address = {Athens, Georgia, USA},
  month = nov,
  annote = {3rd International Semantic Web User Interaction Workshop(SWUI'06)},
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  keywords = {\#PML,\#accountability,\#understanding,\#use},
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    {Pinheiro Da Silva}, Paulo},
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  year = {2007},
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  editor = {Fensel, D and Sycara, K and Mylopoulos, J},
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  publisher = {AAAI/MIT Press},
  year = {2004},
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  year = {2003},
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  year = {2003},
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  volume = {104},
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  booktitle = {Proceedings of the First International Workshop on the role of Semantic
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  year = {2009},
  pages = {TW--2009--20},
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Provenance Empirical Case Studies Using PML.pdf:pdf},
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  year = {2006},
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  publisher = {Springer},
  doi = {http://dx.doi.org/10.1007/11890850_19},
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  title = {{The Requirements of Using Provenance in e-Science Experiments}},
  journal = {Journal of Grid Computing},
  year = {2006},
  volume = {5},
  pages = {1--25},
  number = {1},
  month = dec,
  abstract = {In e-Science experiments, it is vital to record the experimental process
    for later use such as in interpreting results, verifying that the
    correct process took place or tracing where data came from. The process
    that led to some data is called the provenance of that data, and
    a provenance architecture is the software architecture for a system
    that will provide the necessary functionality to record, store and
    use process documentation to determine the provenance of data items.
    However, there has been little principled analysis of what is actually
    required of a provenance architecture, so it is impossible to determine
    the functionality they would ideally support. In this paper, we present
    use cases for a provenance architecture from current experiments
    in biology, chemistry, physics and computer science, and analyse
    the use cases to determine the technical requirements of a generic,
    technology and application-independent architecture. We propose an
    architecture that meets these requirements, analyse its features

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    compared with other approaches and evaluate a preliminary implementation
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  doi = {10.1007/s10723-006-9055-3},
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  author = {Miles, Simon and Groth, Paul and Munroe, S and Jiang, S and Assandri,
    T and Moreau, L},
  title = {{Extracting Causal Graphs from an Open Provenance Data Model}},
  journal = {Concurrency and Computation: Practice and Experience},
  year = {2007},
  doi = {http://dx.doi.org/10.1002/cpe.1236},
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  author = {Miles, Simon and Groth, Paul and Munroe, Steve and Moreau, Luc},
  title = {{Prime: A methodology for developing provenance-aware applications}},
  journal = {ACM Transactions on Software Engineering and Methodolog},
  year = {2009},
  pages = {Accepted for publication},
  keywords = {\#management,\#methodology,\#pasoa,\#process,\#scale},
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  url = {http://eprints.ecs.soton.ac.uk/17450/}
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    and Zauner, Klaus-Peter and Moreau, Luc},
  title = {{Provenance-based validation of e-science experiments}},
  journal = {J. Web Sem.},
  year = {2007},
  volume = {5},
  pages = {28--38},
  doi = {http://dx.doi.org/10.1016/j.websem.2006.11.003},
  keywords = {\#comparison,\#debugging,\#imperfections,\#pasoa,\#provenance,\#use},
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  title = {{A Short Introduction to Intuitionistic Logic}},
  publisher = {Kluwer Academic},
  year = {2000},
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  author = {Mints, Grigori},
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  author = {Missier, Paolo and Embury, Suzanne and Stapenhurst, Richard},
  title = {{Exploiting provenance to make sense of automated data acceptance
    decisions in scientific workflow}},
  booktitle = {IPAW},
  year = {2008},
  volume = {5272/2008},
  series = {LNCS series},
  address = {Salt Lake City, Utah},
  month = jun,
  publisher = {Springer},
  abstract = {Scientific workflow may include automated decision steps, for instance
    to accept/reject certain data products during the course of an in
    silico experiment, based on an assessment of their quality. The trustworthiness
    of these workflow can be enhanced by providing the users with a
    trace and explanation of the outcome of these decisions. In this
    paper we present a provenance model that is designed specifically
    to support this task. The model applies to a particular type of sub-workflow
    that is compiled automatically from a high-level specification of
    user-defined, quality-based data acceptance criteria. The keys to
    the effectiveness of the approach are that (i) these sub-workflow
    follow a predictable pattern structure, (ii) the purpose of their
    component services is defined using an ontology of Information Quality
    concepts, and (iii) the conceptual model for provenance is consistent
    with the ontology structure.},
  annote = {DOI: http://dx.doi.org/10.1007/978-3-540-89965-5\_19 conference},
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  keywords = {\#Justification for Decisions,\#content,\#provenance, \#data\_quality},
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  url = {http://www.springerlink.com/content/r07524068770k401/}
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  title = {{Data lineage model for Taverna workflow with lightweight annotation
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  pages = {1504--1510},
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  author = {Moreau, Luc and Clifford, Ben and Freire, Juliana and Futrelle, Joe
    and Gil, Yolanda and Groth, Paul and Kwasnikowska, Natalia and Miles,
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  journal = {Future Generation Computer Systems},
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    Myers, J and P.Paulson},
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  month = dec,
  year = {2007},
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  author = {Moreau, Luc and Groth, Paul},
  title = {{Recording Process Documentation for Provenance}},
  journal = {IEEE Transactions on Parallel and Distributed databases},
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    and Ibbotson, John and Jiang, Sheng and Munroe, Steve and Rana, Omer
    and Schreiber, Andreas and Tan, Victor and Varga, Laszlo},
  title = {{The Provenance of Electronic Data}},
  journal = {Communications of the ACM},
  year = {2008},
  volume = {51},
  pages = {52--58},
  abstract = {In the study of fine art, provenance refers to the documented history
    of some art object. Given that documented history, the object attains
    an authority that allows scholars to appreciate its importance with
    respect to other works, whereas, in the absence of such history,
    the object may be treated with some skepticism. Our IT landscape
    is evolving as illustrated by applications that are open, composed
    dynamically, and that discover results and services on the fly. Against
    this challenging background, it is crucial for users to be able to
    have confidence in the results produced by such applications. If
    the provenance of data produced by computer systems could be determined
    as it can for some works of art, then users, in their daily applications,
    would be able to interpret and judge the quality of data better.
    We introduce a provenance lifecycle and advocate an open approach
    based on two key principles to support a notion of provenance in
    computer systems: documentation of execution and user-tailored provenance
    queries.},
  doi = {http://doi.acm.org/10.1145/1330311.1330323},
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  keywords =
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  title = {{The First Provenance Challenge}},
  journal = {Concurrency and Computation: Practice and Experience},
  year = {2008},
  volume = {20},
  pages = {409--418},
  month = apr,
  doi = {http://dx.doi.org/10.1002/cpe.1233},
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  author = {Muniswamy-Reddy, K K and Holland, D A and Braun, U and Seltzer, M
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  title = {{Provenance-Aware Storage Systems}},
  booktitle = {USENIX Annual Technical Conference, General Track},
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  pages = {43--56},
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  url = {http://www.usenix.org/events/usenix06/tech/muniswamy-reddy.html}
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    A and Welty, Christopher A and McGuinness, Deborah L},
  title = {{Encoding Extraction as Inferences}},
  booktitle = {Proc. of AAAI Spring Symposium on Metacognition on Computation},
  year = {2005},
  pages = {92--97},
  address = {Stanford University, USA},
  publisher = {AAAI Press},
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  keywords =
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  title = {{Quality-Driven Query Answering for Integrated Information Systems}},
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  author = {Naumann, Felix},
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  author = {News, BBC},
  title = {{Toyota recalls 2.3m US vehicles}},
  year = {2010},
  booktitle = {BBC News Website},
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  title = {{BlogTrackers: A Tool for Sociologists to Track and Analyze Blogosphere
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  author = {Oinn, Tom and Addis, Matthew and Ferris, Justin and Marvin, Darren
    and Senger, Martin and Greenwood, Mark and Carver, Tim and Glover,
    Kevin and Pocock, Matthew R and Wipat, Anil and Li, Peter},
  title = {{Taverna: a tool for the composition and enactment of bioinformatics
    workflow.}},
  journal = {Bioinformatics (Oxford, England)},
  year = {2004},
  volume = {20},
  pages = {3045--54},
  number = {17},
  abstract = {MOTIVATION: In silico experiments in bioinformatics involve the co-ordinated
    use of computational tools and information repositories. A growing
    number of these resources are being made available with programmatic
    access in the form of Web services. Bioinformatics scientists will
    need to orchestrate these Web services in workflow as part of their
    analyses. RESULTS: The Taverna project has developed a tool for the
    composition and enactment of bioinformatics workflow for the life
    sciences community. The tool includes a workbench application which
    provides a graphical user interface for the composition of workflow.
    These workflow are written in a new language called the simple conceptual
    unified flow language (Scufl), where by each step within a workflow
    represents one atomic task. Two examples are used to illustrate the
    ease by which in silico experiments can be represented as Scufl workflow
    using the workbench application.},
  doi = {10.1093/bioinformatics/bth361},
  file = {:C$\backslash$:/Users/Dani/AppData/Local/Mendeley Ltd./Mendeley
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  year = {2006},
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  journal = {International Journal of Digital Curation},
  year = {2008},
  volume = {4},
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  author = {{Pediaditis, P., Flouris, G., Fundulaki, I., Christophides}, V.},
  title = {{On Explicit Provenance Management in RDF / S Graphs}},
  booktitle = {TAPP 2009},
  year = {2009},
  abstract = {The notion of RDF Named Graphs has been proposed in order to assign
    provenance information to data described using RDF triples. In this
    paper, we argue that named graphs alone cannot capture provenance
    information in the presence of RDFS reasoning and updates. In order
    to address this problem, we introduce the notion of RDF/S Graphsets:
    a graphset is associated with a set of RDF named graphs and contain
    the triples that are jointly owned by the named graphs that constitute
    the graphset. We formalize the notions of RDF named graphs and RDF/S
    graphsets and propose query and update languages that can be used
    to handle provenance information for RDF/S graphs taking into account
    RDFS semantics.},
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  volume = {423},
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  title = {{Combinable Proof Fragments for the Web}},
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  number = {KSL-03-04},
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  journal = {IEEE Data Engineering Bulletin},
  year = {2003},
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  year = {2009},
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  institution = {W3C Multimedia Semantics Incubator Group Report},
  keywords = {\#News_Aggregator,\#content,\#object},
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    as one way in which e-Science tools can be deployed to support and
    enhance the research process. We are exploring the use of Linked
    Data in combination with the Open Provenance Model (OPM) and Social
    Web concepts to facilitate interactions between people and data in
    the context of a VRE. In this demo we present the ourSpaces VRE and
    outline the technologies used to link together provenance, research
    artefacts, projects, geographical locations and social data in the
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    E-notebook}},
  journal = {Journal of Digital Information},
  volume = {4},
  number = {3},
  abstract = {As people increasingly turn to the World Wide Web to help them manage
    their daily tasks, they engage in the process of information assimilation
    (IA). IA refers to the gathering, editing, annotating, organizing,
    and saving of Web information, as well as the tracking of ongoing
    Web work processes. Although evidence suggests that IA is a critical
    process for Web users, it is currently not well supported by existing
    browsers and other software applications. The lack of adequate software
    support for IA may be attributed to implementation difficulties associated
    with developing general Web-based applications. In addition, usability
    must be a major priority in the development of interactive systems
    to support IA. The NetNotes prototype, a Web-based e-notebook, represents
    a limited solution to the problem of developing software to support
    IA. NetNotes works in conjunction with a specific Web domain, deals
    with a limited number of Web components, and requires minor server-side
    modifications. Despite these limitations, however, the NetNotes implementation
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    exposes some of the key technical problems associated with implementing
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  pages = {31--36},
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  volume = {7},
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  url = {http://ieeexplore.ieee.org/lpdocs/epic03/wrapper.htm?arnumber=4670154}
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  author = {{Theoharis, Y., Fundulaki, I., Karvounarakis, G., Christophides},
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  year = {2010},
  annote = {This is a Technical Report of the Institute of Computer Science -
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  institution = {Software Verification Research Centre, The University of Queensland},
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    for the misuse of personal information, whether public or secret.},
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  author = {Wong, S C and Miles, Simon and Fang, W and Groth, Paul and Moreau,
    L},
  title = {{Provenance-Based Validation of E-Science Experiments}},
  booktitle = {Procs. ISWC},
  year = {2005},
  pages = {801--815},
  doi = {http://dx.doi.org/10.1007/11574620\_57},
  file = {:C$\backslash$:/Users/Dani/AppData/Local/Mendeley Ltd./Mendeley
Desktop/Downloaded/Wong et al. - 2005 - Provenance-Based Validation of E-Science
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  url = {http://dx.doi.org/10.1007/11574620\_57}
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@MISC{WonSukLee2010,
  author = {{WonSuk Lee} and {Tobias Burger} and {Felix Sasaki} and {Veronique
    Malaise}},
  title = {{Use Cases and Requirements for Ontology and API for Media Object
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  year = {2010},
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@MISC{WonSukLee2010,
  author = {{WonSuk Lee} and {Tobias Burger} and {Felix Sasaki} and {Veronique
    Malaise} and {Florian Stegmaier} and {Joakim Soderberg}},
  title = {{Ontology for Media Resource 1.0}},
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@INPROCEEDINGS{DBLP:conf/icde/Woodruff97,
  author = {Woodruff, A and Stonebraker, M},
  title = {{Supporting Fine-grained Data Lineage in a Database Visualization
    Environment}},
  booktitle = {Procs. ICDE},
  year = {1997},
  pages = {91--102},
  file = {:C$\backslash$:/Users/Dani/AppData/Local/Mendeley Ltd./Mendeley
Desktop/Downloaded/Woodruff, Stonebraker - 1997 - Supporting Fine-grained Data Lineage in a
Database Visualization Environment.pdf:pdf},
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  url = {http://dblp.uni-trier.de/db/conf/icde/Woodruff97.html}
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@INPROCEEDINGS{zaihrayeu2005,
  author = {Zaihrayeu, Ilya and {Pinheiro Da Silva}, Paulo and McGuinness, Deborah
    L},
  title = {{IWTrust: Improving User Trust in Answers from the Web}},
  booktitle = {Proceedings of 3rd International Conference on Trust Management (iTrust2005)},
  year = {2005},
  pages = {384--392},
  address = {Paris, France},
  publisher = {Springer},
  file = {:C$\backslash$:/Users/Dani/AppData/Local/Mendeley Ltd./Mendeley
Desktop/Downloaded/Zaihrayeu, Pinheiro Da Silva, McGuinness - 2005 - IWTrust Improving User
Trust in Answers from the Web.pdf:pdf},
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@INPROCEEDINGS{Zhang2010,
  author = {Zhang, Jing and Jagadish, H. V.},
  title = {{Lost source provenance}},
  booktitle = {ACM International Conference Proceeding Series; Vol. 426},
  year = {2010},
  pages = {311--322},
  abstract = {As the use of derived information has grown in recent years, the importance
    of provenance has been recognized, and there has been a great deal
    of effort devoted to developing techniques to identify individual
    source tuples used in the derivation of any result tuple. Often,
    however, the source database may have been updated since the result
    was derived, and the source tuples of interest are not in the database
    any more. In such situations, the provenance management system has
    to reconstruct relevant historical fragments of the source database
    as they were at derivation time. In this paper, we develop techniques
    to address this problem. Our experimental assessment shows that these
    techniques do so efficiently, and with low storage overhead.},
  annote = {Paolo added 07/10},
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  url = {http://portal.acm.org/citation.cfm?doid=1739041.1739080}
}

@PHDTHESIS{Zhao2007,
  author = {Zhao, J},
  title = {{A conceptual model for e-science provenance}},
  school = {University of Manchester},
  year = {2007},
  booktitle = {Landscape},
  file = {:C$\backslash$:/Users/Dani/AppData/Local/Mendeley Ltd./Mendeley
Desktop/Downloaded/Zhao - 2007 - A conceptual model for e-science provenance.pdf:pdf},
  keywords = {\#content,\#disease_outbreak,\#use,\#workflow-provenance},
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  url = {http://users.ox.ac.uk/\~{}zool0770/jun_thesis_final_2007.pdf}
}

@ARTICLE{Zhao2008,
  author = {Zhao, Jun and Goble, Carole and Stevens, Robert and D},
  title = {{Mining Taverna's semantic web of provenance}},

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  journal = {Concurrency and Computation: Practice and Experience},
  year = {2008},
  volume = {20},
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  number = {5},
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Desktop/Downloaded/Zhao et al. - 2008 - Mining Taverna's semantic web of provenance.pdf:pdf},
  keywords = {\#disease\_outbreak,\#provenance,\#taverna,\#use,\#workflow},
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  url = {http://www3.interscience.wiley.com/journal/115806853/abstract}
}

@ARTICLE{J.-Zhao:2008zk,
  author = {Zhao, J and Goble, Carole and Stevens, R and Turi, D},
  title = {{Mining Taverna's semantic web of provenance}},
  journal = {Concurrency and Computation: Practice and Experience},
  year = {2008},
  volume = {20},
  pages = {463--472},
  doi = {http://dx.doi.org/10.1002/cpe.1231},
  keywords = {\#taverna,\#provenance},
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@INPROCEEDINGS{zhao04:,
  author = {Zhao, J and Wroe, C and Goble, Carole and Stevens, R and Quan, D
    and Greenwood, M},
  title = {{Using Semantic Web Technologies for Representing e-Science Provenance}},
  booktitle = {Third International Semantic Web Conference (ISWC2004)},
  year = {2004},
  series = {LNCS},
  pages = {92--106},
  address = {Hiroshima, Japan},
  month = nov,
  publisher = {Springer-Verlag},
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@MISC{ googlebook,
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    database for all books (and parts of books) covered by the Agreement
    and their authors and publishers},
  booktitle = {Wikipedia},
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