



Information Sharing for e-Government

Programa:

1. Introduction. Concepts of Information Sharing. e-Government issues.
2. General database systems integration. Ontologies. Semantic Web.
3. Models of Information Sharing in government. Model of Davies. Model of Landsbergen and Wolken. Dimensions. Stages.
4. Countries' experiences. Frameworks and architectures.
5. Case studies: e-health, social care, emergency management, education.

12.- BIBLIOGRAFÍA (indicar título del libro, autor, Editorial y año de publicación)(adjuntada)

- J.R. Gil-Garcia, S.A Chun, and M. Janssen. Government Information Sharing and Integration: Combining the Social and the Technical, Information Policy 14 (2009) 1-10 , IOS Press.
- J.R. Gil-Garcia, T. Pardo and B. Burke. Conceptualizing Information Integration in Government. Electronic Government, Information, Technology and Transformation, J. Scholl, Ed., Armonk, NY, ME Sharpe, 2009.
- Government of Australia. Australian Government Information Interoperability Framework: Sharing Information across Boundaries. Department of Finance and Deregulation, Australian Government Information Management Office, August 2006. URL=http://www.finance.gov.au/publications/agimo/docs/Information_Interoperability_Framework.pdf.
- Government of Estonia. Estonian IT Interoperability Framework version 2.0, Ministry of Economic Affairs and Administration, URL=http://www.riso.ee/en/files/framework_2005.pdf.
- Government of Germany. SAGA, Standards and Architectures for e-Government Applications, Version 2.0, Bundesministerium des Innern, KBSt Publications Series, ISSN 0179-7263 , volume 59, December 2003.
- Government of New Zealand. New Zealand e-Government Interoperability Framework, version 3.3. State Services Commission, State Services Commission, February 2008. URL=<http://www.e.govt.nz/standards/e-gif/e-gif-v-3-3/e-gif-v-3-3-complete.pdf>.
- Government of United Kingdom. e-Government Interoperability Framework ver.6.1, Cabinet Office, March 2005. URL=[http://www.cabinetofgov.uk/media/253452/eGIF%\\$20v6_1\(1\).pdf](http://www.cabinetofgov.uk/media/253452/eGIF%$20v6_1(1).pdf)
- Government of USA. Introduction to the National Information Exchange Model, NIEM Program Management Office, February 2007, URL=<http://www.niem.gov/topicIndex.php?topic=file-introduction>
- Government of USA. Information Sharing Strategy, United States Intelligence Community, Office of the Director of National Intelligence, February 2008, URL=http://www.dni.gov/reports/IC_Information_Sharing_Strategy.pdf.
- P. Guides. What Rules Govern the Use of Information, Center for Technology in Government, URL=http://www.ctg.albany.edu/publications/reports/what_rules_govern.



- F. Jing and Z. Pengzhu. A Field Study of G2G Information Sharing in Chinese Context Based on the Layered Behavioral Model, Proceedings of the 42th Hawaii International Conference on System Sciences, ISBN: 978-0-7695-3450-3, DOI=10.1109/HICSS.2009.12
- D. Landsbergen and G. Wolken. Realizing the Promise: Government Information Systems and the Fourth Generation of Information Technology, Public Administration Review, Vol. 61, Issue 2, April 2001, Wiley, InterScience.
- T. Pardo, B. Burke, J.R. Gil-Garcia and A. Guler. Clarity of Roles and Responsibilities in Government Cross-Boundary Information Sharing Initiatives: Identifying the Determinants, Proceedings of the 5th International Conference on e-Government, Boston, USA, ISBN: 978- 1-906638-50-4 CD, Academic Publishing Limited.
- T. Pardo, and G.K. Tayi. Interorganizational Information Integration: A Key Enabler for Digital Government, Government Information Quarterly 24(2007) pp 691-715.
- Center for Technology in Government. The Insider's Guide to Using Information in Government, URL=<http://www.ctg.albany.edu/static/usinginfo/index.htm>
- S. Dawes. Interagency Information Sharing: Expected Benefits, Manageable Risks, Journal of Policy Analysis and Management, Vol. 15, No. 3 (Summer, 1996), pp. 377-394.
- L. Zheng, T-M. Yang, T. Pardo, and Y. Jiang. Understanding the Boundary in Information Sharing and Integration, Proceedings of the 42th Hawaii International Conference on System Sciences, ISBN: 978- 0-7695-3450-3.
- Resource Description Framework (RDF): Concepts and Abstract Syntax, Graham Klyne and Jeremy J. Carroll, Editors, W3C Recommendation, 10 February 2004.
- RDF Semantics, Patrick Hayes, Editor, W3C Recommendation, 10 February 2004.
- OWL Web Ontology Language: Semantics and Abstract Syntax. Peter F. Patel-Schneider, Patrick Hayes, and Ian Horrocks, eds., W3C Recommendation, 10 February 2004.
- OWL 2 Web Ontology Language: Structural Specification and Functional-Style Syntax. Boris Motik, Peter F. Patel-Schneider, Bijan Parsia, eds. W3C Recommendation, 27 October 2009.
- Dublin Core Metadata Initiative. Dublin Core Metadata Element Set. URL=<http://dublincore.org/documents/dces/>.
- Stefan Decker, Sergey Melnik, Frank van Harmelen, Dieter Fensel, Michael C. A. Klein, Jeen Broekstra, Michael Erdmann, and Ian Horrocks.
- The Semantic Web: the roles of XML and RDF. IEEE Internet Computing 4(5): 63-74, 2000.
- Peter F. Patel-Schneider and Dieter Fensel. Layering the Semantic Web: Problems and Directions. In Proceedings of the 1st International Semantic Web Conference (ISWC 2002).
- Li Ding and Tim Finin. Characterizing the Semantic Web on the Web. In Proceedings of International Semantic Web Conference (ISWC 2006).
- Pablo Castells, Miriam Fernandez, and David Vallet. An Adaptation of the Vector-Space Model for Ontology-Based Information Retrieval. IEEE Transactions on Knowledge and Data Engineering. 19(2): 261-272 (2007).



- Vasco Calais Pedro, Eric Nyberg, and Jaime Carbonell. Federated Ontology Search. In Proceedings of First International Workshop of Semantic Information Integration on Knowledge Discovery (SIKI 2006).
- M. Andrea Rodriguez and Max J. Egenhofer. Determining Semantic Similarity among Entity Classes from Different Ontologies. IEEE Transactions on Knowledge and Data Engineering. 15(2): 442-456 (2003).
- Goksel Aslan and Dennis McLeod. Semantic heterogeneity resolution in federated databases by metadata implantation and stepwise evolution. VLDB Journal. 8(2): 120-132 (1999)
- Sangsoo Sung and Dennis McLeod. Ontology-Driven Semantic Matches between Database Schemas. In Proceedings of International Workshop on Database Interoperability (ICDEW 2006).
- Jaime Reinoso, Adrian Silvescu, Doina Caragea, Jyotishman Pathak, and Vasant Honavar. Information Extraction and Integration from Heterogeneous, Distributed, Autonomous Information Sources : A Federated Ontology-Driven Query-Centric Approach. In Proceedings of International Conference on Information Reuse and Integration (IRI 2003).
- Danushka Bollegala, Yutaka Matsuo, and Mitsuru Ishizuka. Measuring the Similarity Between Implicit Semantic Relations From the Web. In Proceedings of the 18th international Conference on World Wide Web (WWW 2009).
- Peter F. Patel-Schneider and Ian Horrocks. Position paper: a comparison of two modelling paradigms in the Semantic Web. In Proceedings of World Wide Web Conference (WWW 2006).
- Daniel J. Abadi, Adam Marcus, Samuel Madden, and Katherine J. Hollenbach. Scalable Semantic Web Data Management Using Vertical Partitioning. In Proceedings of the 33th International Conference on Very Large Data Bases. (VLDB 2007).
- Je□ Z. Pan and Ian Horrocks. RDFS(FA): Connecting RDF(S) and OWL DL. IEEE Transactions on Knowledge and Data Engineering. 19(2): 192-206 (2007).
- Gagan Aggarwal, Mayank Bawa, Prasanna Ganesan, Hector Garcia-Molina, Krishnaram Kenthapadi, Nina Mishra, Rajeev Motwani, Utkarsh Srivastava, Dilys Thomas, Jennifer Widom, and Ying Xu. Vision Paper: Enabling Privacy for the Paranoids. In Proceedings of the 13th International Conference on Very Large Data Bases (VLDB 2004).
- Changjun Hu, Xiaoming Zhang, Qian Zhao, and Chongchong Zhao. Ontology-Based Semantic Integration Method for Domain-Specific Scientific Data. In Proceedings of the 8th ACIS International Conference on Software Engineering, Artificial Intelligence, Networking, and Parallel/Distributed Computing (SNPD 2007).

Dr. Alejandro N. Rios
Departamento de Computación
FCEyN UBA



Universidad de Buenos Aires
Facultad de Ciencias Exactas y Naturales

Referencia Expte. N° 500.321/2011

Buenos Aires, 14 NOV 2011

VISTO:

la nota presentada por el Dr. Sebastián Uchitel, Director del Departamento de Computación, mediante la cual eleva la información y el programa del curso de posgrado **Information sharing for e-government**, dictado en el segundo cuatrimestre de 2010 dictado por la Dra. Elsa Estévez,

el CV de la Dra. Elsa Estévez

CONSIDERANDO:

que las presentes actuaciones no fueron presentados en tiempo y forma por un error administrativo,

lo actuado por la Comisión de Doctorado de esta Facultad el 25/10/2011,

lo actuado por la Comisión de Enseñanza, Programas, Planes de estudio y Posgrado

lo actuado por este Cuerpo en la sesión realizada en el día de la fecha,

en uso de las atribuciones que le confiere el Artículo 113º del Estatuto Universitario,

EL CONSEJO DIRECTIVO DE LA FACULTAD DE
CIENCIAS EXACTAS Y NATURALES
R E S U E L V E:

Artículo 1º: Dar validez al dictado del curso de posgrado **Information sharing for e-government** de 15 hs. de duración, en el segundo cuatrimestre de 2010.

Artículo 2º: Aprobar el programa del curso de posgrado **Information sharing for e-government**, obrante a fs 3, 4 y 5 del expediente de referencia.

Artículo 3º: Aprobar un puntaje máximo para la Carrera de Doctorado de 0,5 (cero coma cinco) puntos

Artículo 4º: Aprobar un arancel de 20 Módulos. Disponer que los montos recaudados serán utilizados conforme a lo dispuesto por Resolución CD N° 072/03.

Artículo 5º: Comuníquese al Director del Departamento de Computación, a la Biblioteca de la FCEyN, a la Biblioteca de la FCEyN y a la Subsecretaría de Postgrado (con fotocopia del Programa incluido)

Artículo 6º: Comuníquese al Departamento de Alumnos (sin fotocopia del programa incluido). Cumplido Archívese.

Resolución CD N° 2368 ==
SP/ga/25/10/2011

Dr. JAVIER LOPEZ DE CASENAVE
SECRETARIO ACADEMICO

Dr. JORGE ALIAGA
DECANO