1 Our Systematic mapping process

Data Integration Environment facet (See table **??**). Represents the environment (architecture and deployment) in which data integration is being applied. The dimensions to this facet are: Cloud, Data Warehouse, Federated Database and Multi-cloud.

Dimension	Publication
Cloud	$[1–5, 7, 19, 24, 28, 38, 39, 43, 44, 46, 47, 49, 53, 62, 63, 65, 70, 76, 77, 79, 80,$ $98–100, 104, 105, 107, 108, 110, 111]$
Data Warehouse	$[17, 50, 89]$
Federated Database	$[26, 79, 103]$
Multi-cloud	$[25, 26, 97]$

Table 1: Data Integration Environment facet

Data Integration Description facet (See table **??**). Indicates the strategy used by authors in order to achieve data integration. The dimensions to this facet are: Knowledge, Metadata and Schema.

Dimension	Publication
Knowledge	$[25, 65]$
Metadata	$[5, 17, 38]$
Schema	$[24, 26, 28, 39, 44, 50, 65, 79, 89, 103, 110]$

Table 2: Data Integration Description facet

Data Quality facet (See table **??**). Refers to data quality parameters applied in the publication. The dimensions are: Confidentiality, Privacy, Security, SLA, Data Protection, Data Provenance and Others. Note that a publication is classified in the SLA dimension when it does not focus on a specific quality parameter, but in general uses a SLA contract in order to specify one or more.

SLA facet (See table **??**). This facet is devote to present how the SLA is mainly used in the publication. The dimension for this facet are: Language, Model, Resources and Security. It is important to see that SLA appears as a dimension and as a facet. As a facet, we are interest in the way SLA is used. As a dimension, it is just to indicate that the work applies SLA in your solution.

Contribution facet (See table **??**). Express the kind of contribution proposed by the author. The dimensions are Tool, Literature Analysis, Method, Model, Process and Extended Study.

Research facet (See table **??**). Dedicates to classify in which kind of research the publication can be fitted in. The dimensions to this facet are: Evaluation research, Validation research, Solution proposal and Opinion papers.

References

1. An Efficient Dictionary and Lingual Keyword based Secure Search Scheme in Cloud Storage.

Dimension	Publication
Confidentiality	[6–8, 42]
Privacy	[7, 8, 16, 18, 19, 38, 42, 81, 99, 100]
Security	[7, 38, 62, 97, 103, 113]
SLA	[9–11, 16, 20, 21, 27, 25, 29–37, 40–42, 45, 48, 51, 52, 54–60, 64, 66, 68, 69, 71, 73–75, 78, 81–88, 91–96, 101, 102, 106, 112–114]
Data Protection	[1, 6, 81]
Data Provenance	[25]
Others	[26, 97, 108]

Table 3: Data Quality facet

Dimension	Publication
Language	[14, 64, 68, 71, 91, 92, 101]
Model	[9–12, 14–16, 20, 21, 23, 25, 29–37, 40–42, 48, 51, 52, 54–58, 60, 66, 69, 73–75, 78, 81–85, 87, 88, 91, 93–96, 101, 106, 114]
Resources	[2, 87, 112]
Security	[7, 27, 38, 45, 58, 59, 62, 66, 83, 84, 86, 97, 102, 103, 113]

Table 4: SLA facet

2. Distributed Query Processing on the Cloud: the Optique Point of View (Short Paper).

3. Measuring Elasticity for Cloud Databases.

4. Non-blocking Algorithm for Eventual Consistent Replicated Database on Cloud.

5. The eCloudManager Intelligence Edition Semantic Technologies for Enterprise Cloud Management.

6. Trustworthy Data from Untrusted Databases.

7. Volume 1 No. 13 Moving Towards Non-Relational Databases.

8. Web Service Integration Using Cloud Data Store.

9. Customized SLAs in Cloud Environments. In *2013 Eighth International Conference on P2P, Parallel, Grid, Cloud and Internet Computing*, pages 262–269. IEEE, October 2013.

10. Asma Al Falasi and Mohamed Adel Serhani. A Framework for SLA-based cloud services verification and composition. In *2011 International Conference on Innovations in Information Technology*, pages 287–292. IEEE, April 2011.

11. Abdel-Rahman F. Al-Ghuwairi. Formal modeling and dynamic verification of service level agreements in cloud computing. January 2013.

12. Mohammed Alhamad, Tharam Dillon, and Elizabeth Chang. Conceptual SLA framework for cloud computing. In *4th IEEE International Conference on Digital Ecosystems and Technologies*, pages 606–610. IEEE, April 2010.

13. Mohammed Alhamad, Tharam Dillon, and Elizabeth Chang. A survey on SLA and performance measurement in cloud computing. pages 469–477, October 2011.

14. Mohammed Alhamad, Tharam Dillon, and Elizabeth Chang. Service Level Agreement for Distributed Services: A Review. In *2011 IEEE Ninth International Conference on Dependable, Autonomic and Secure Computing*, pages 1051–1054. IEEE, December 2011.

15. Fatima Alkandari and Richard F. Paige. Modelling and comparing cloud computing service level agreements. In *Proceedings of the 1st International Workshop on Model-Driven Engineering for High Performance and CLoud computing - MDHPCL '12*, pages 1–6, New York, New York, USA, October 2012. ACM Press.

Dimension	Publication
Tool	[2, 10–12, 17, 19, 24, 26, 27, 30–32, 35, 36, 38, 42, 43, 47–49, 52, 54, 57, 58, 62, 72, 76, 77, 87–89, 92, 97–99, 101, 103, 112, 113]
Literature Analysis	[3, 5, 7, 8, 13, 14, 22, 23, 39, 66, 73, 79, 82, 86, 107, 111]
Method	[1, 4, 27, 44, 46, 75, 85, 90, 109, 110]
Model	[9, 15–18, 20, 21, 24–26, 28, 29, 33, 34, 37, 50, 51, 53, 55, 56, 59–61, 63–65, 67–71, 76–78, 80, 83, 84, 91–96, 100, 102, 105, 106, 114]
Process	[40, 41, 45, 74, 100, 108]
Extended Study	[6, 81, 104]

Table 5: Contribution facet

Dimension	Publication
Evaluation research	[20, 48, 82, 22, 39, 43, 79, 98, 107, 110, 111, 3, 8]
Validation research	[10–12, 15, 16, 21, 27, 25, 30–35, 37, 40, 41, 74, 42, 45, 51, 52, 54–57, 114, 59, 60, 64, 68, 78, 85, 93, 96, 53, 99, 105, 108, 3, 103]
Solution proposal	[20, 58, 66, 69, 71, 73, 75, 9, 36, 81–85, 87, 88, 91, 92, 94, 95, 101, 102, 106, 112, 113, 17–19, 24, 26, 28, 44, 46, 47, 49, 53, 61–63, 65, 67, 70, 72, 76, 77, 80, 89, 90, 97–100, 104, 105, 108–110, 6, 1, 4, 2, 38, 50]
Opinion paper	[14, 13, 23, 29, 86, 22, 39, 5, 7]

Table 6: Research facet

16. David S. Allison and Miriam A. M. Capretz. Furthering the growth of cloud computing by providing privacy as a service. pages 64–78, August 2011.
17. Sattam Alsubaiee, Alexander Behm, Raman Grover, Rares Vernica, Vinayak Borkar, Michael J. Carey, and Chen Li. Asterix: Scalable warehouse-style web data integration. In *Proceedings of the Ninth International Workshop on Information Integration on the Web*, IIWeb '12, pages 2:1–2:4, New York, NY, USA, 2012. ACM.
18. Mohammed Abdullatif ALzain and E Pardede. Using Multi Shares for Ensuring Privacy in Database-as-a-Service. In *2011 44th Hawaii International Conference on System Sciences*, pages 1–9. IEEE, January 2011.
19. Mahtab Arafati, Gaby G. Dagher, Benjamin C. M. Fung, and Patrick C. K. Hung. D-Mash: A Framework for Privacy-Preserving Data-as-a-Service Mashups. pages 498–505, June 2014.
20. Tatiana Aubonnet and Noemie Simoni. Self-Control Cloud Services. In *2014 IEEE 13th International Symposium on Network Computing and Applications*, pages 282–286. IEEE, August 2014.
21. Ines Ayadi, Noemie Simoni, and Tatiana Aubonnet. SLA Approach for "Cloud as a Service". In *2013 IEEE Sixth International Conference on Cloud Computing*, pages 966–967. IEEE, June 2013.
22. Juraj Bartok, Ondrej Habala, Peter Bednar, Martin Gazak, and Ladislav Hluchý. Data mining and integration for predicting significant meteorological phenomena. *Procedia Computer Science*, 1(1):37–46, May 2010.
23. Salman A. Baset. Cloud SLAs: Present and Future.
24. S. Benkner, C. Borckholder, M. Bubak, Y. Kaniovskyi, R. Knight, M. Koehler, S. Koulouzis, P. Nowakowski, and S. Wood. A Cloud-Based Framework for Collaborative Data Management in the VPH-Share Project. In *2013 27th International Conference on Advanced Information Networking and Applications Workshops*, pages 1203–1210. IEEE, March 2013.
25. Nadia Bennani, Chirine Ghedira Guegan, Martin A. Musicante, and Genoveva Vargas Solar. SLA-Guided Data Integration on Cloud Environments. pages 934–935, June 2014.

26. David Bermbach, Markus Klems, Stefan Tai, and Michael Menzel. MetaStorage: A Federated Cloud Storage System to Manage Consistency-Latency Tradeoffs. In *2011 IEEE 4th International Conference on Cloud Computing*, pages 452–459. IEEE, July 2011.

27. Karin Bernsmed, Martin Gilje Jaatun, Per Hakon Meland, and Astrid Undheim. Security slas for federated cloud services. *2012 Seventh International Conference on Availability, Reliability and Security*, 0:202–209, 2011.

28. Bin Lu and Wei Song. Research on heterogeneous data integration for Smart Grid. In *2010 3rd International Conference on Computer Science and Information Technology*, volume 3, pages 52–56. IEEE, July 2010.

29. Sara Bouchenak. Automated control for SLA-aware elastic clouds. In *Proceedings of the Fifth International Workshop on Feedback Control Implementation and Design in Computing Systems and Networks - FeBiD '10*, pages 27–28, New York, New York, USA, April 2010. ACM Press.

30. Ivona Br, Dejan Music, and Schahram Dustdar. Vieslaf framework: Increasing the versatility of grid qos models by applying semi-automatic sla-mappings, 2009.

31. Ivona Brandic, Vincent C. Emeakaroha, Michael Maurer, Schahram Dustdar, Sandor Acs, Attila Kertesz, and Gabor Kecskemeti. LAYSI: A Layered Approach for SLA-Violation Propagation in Self-Manageable Cloud Infrastructures. In *2010 IEEE 34th Annual Computer Software and Applications Conference Workshops*, pages 365–370. IEEE, July 2010.

32. Ivona Brandic, Dejan Music, and Schahram Dustdar. VIESLAF FRAMEWORK: FACILITATING NEGOTIATIONS IN CLOUDS BY APPLYING SERVICE MEDIATION AND Negotiation Bootstrapping.

33. Ivona Brandic, Dejan Music, and Schahram Dustdar. Service mediation and negotiation bootstrapping as first achievements towards self-adaptable grid and cloud services. In *Proceedings of the 6th International Conference Industry Session on Grids Meets Autonomic Computing*, GMAC '09, pages 1–8, New York, NY, USA, 2009. ACM.

34. Ivona Brandic, Dejan Music, Schahram Dustdar, Srikumar Venugopal, and Rajkumar Buyya. Advanced QoS Methods for Grid Workflows Based on Meta-Negotiations and SLA-Mappings, 2008.

35. Ivona Brandic, Dejan Music, Philipp Leitner, and Schahram Dustdar. VieSLAF Framework: Enabling Adaptive and Versatile SLA-Management, 2009.

36. Ivona Brandic, Dejan Music, Philipp Leitner, and Schahram Dustdar. VieSLAF Framework: Enabling Adaptive and Versatile SLA-Management, 2009.

37. Ivona Brandic, Srikumar Venugopal, Michael Mattess, and Rajkumar Buyya. Towards a Meta-Negotiation Architecture for SLA-Aware Grid Services.

38. Reinhard Braumandl. Quality of Service and Optimization in Data Integration Systems, 2002.

39. Alexander Breil, Patrik Hitzelberger, Paulo Da Silva Carvalho, and Fernand Feltz. Exploring data integration strategies for public sector cloud solutions. In *Proceedings of the 2012 Joint International Conference on Electronic Government and the Information Systems Perspective and Electronic Democracy, and Proceedings of the 2012 Joint International Conference on Advancing Democracy, Government and Governance*, EGOVIS'12/EDEM'12, pages 271–278, Berlin, Heidelberg, 2012. Springer-Verlag.

40. Ivan Breskovic, Michael Maurer, Vincent C. Emeakaroha, Ivona Br, and Jörn Altmann. Towards autonomic market management in cloud computing infrastructures. *IN INTERNATIONAL CONFERENCE ON CLOUD COMPUTING AND SERVICES SCIENCE. CLOSER*, 2011.

41. Ivan Breskovic, Michael Maurer, Vincent C. Emeakaroha, Ivona Br, Jörn Altmann, I. Breskovic, M. Maurer, V. C. Emeakaroha, I. Br, and J. Altmann. Achieving Market Liquidity Through Autonomic Cloud Market Management.

42. Abdelsalam H. Busalim, Ab Razak Che Hussin, and Abdulrahman Ibrahim. Service level agreement framework for e-commerce cloud end-user perspective. In *2013 International Conference on Research and Innovation in Information Systems (ICRIIS)*, pages 576–581. IEEE, November 2013.

43. TszYan Chow, Wei-Tek Tsai, Janaka Balasooriya, and Xiaoying Bai. Ontology-based Information Sharing in Service-Oriented Database Systems. In *2009 IEEE International Conference on Services Computing*, pages 276–283. IEEE, September 2009.

44. Gianluca Correndo, Manuel Salvadores, Ian Millard, Hugh Glaser, and Nigel Shadbolt. SPARQL query rewriting for implementing data integration over linked data. In *Proceedings of the 1st International Workshop on Data Semantics - DataSem '10*, page 1, New York, New York, USA, March 2010. ACM Press.

45. Shirlei Aparecida de Chaves, Carlos Becker Westphall, and Flavio Rodrigo Lamin. SLA Perspective in Security Management for Cloud Computing. In *2010 Sixth International Conference on Networking and Services*, pages 212–217. IEEE, March 2010.

46. AnHai Doan, Alon Halevy, and Zachary Ives. *Principles of Data Integration*. Elsevier, 2012.

47. Christopher Duffy, Lorne Leonard, Gopal Bhatt, Xuan Yu, and Lee Giles. Watershed Reanalysis: Towards a National Strategy for Model-Data Integration. In *2011 IEEE Seventh International Conference on e-Science Workshops*, pages 61–65. IEEE, December 2011.

48. Valere Dussaux. Purchasing and Offering of Cloud Software Services by a Central Procurement Agency: A Case Study. In *2012 IEEE 16th International Enterprise Distributed Object Computing Conference Workshops*, pages 80–83. IEEE, September 2012.

49. Ghada ElSheikh, Mustafa Y. ElNainay, Saleh ElShehaby, and Mohamed S. Abougabal. SODIM: Service Oriented Data Integration based on MapReduce. *Alexandria Engineering Journal*, 52(3):313–318, September 2013.

50. Henrik Engström, Sharma Chakravarthy, and Brian Lings. Data Integration in Heterogeneous Environments: Multi-Source Policies, Cost Model, and Implementation.

51. Asma Al Falasi, Mohamed Adel Serhani, and Rachida Dssouli. A Model for Multi-levels SLA Monitoring in Federated Cloud Environment. In *2013 IEEE 10th International Conference on Ubiquitous Intelligence and Computing and 2013 IEEE 10th International Conference on Autonomic and Trusted Computing*, pages 363–370. IEEE, December 2013.

52. J. Famaey, S. Latre, T. Wauters, and F. De Turck. An SLA-driven framework for dynamic multimedia content delivery federations. In *2012 IEEE Network Operations and Management Symposium*, pages 1241–1247. IEEE, April 2012.

53. Yuzhang Feng, Anitha Veeramani, and Rajaraman Kanagasabai. Enabling On-Demand Mashups of Open Data with Semantic Services. In *2012 IEEE 18th International Conference on Parallel and Distributed Systems*, pages 755–759. IEEE, December 2012.

54. Stefano Ferretti, Vittorio Ghini, Fabio Panzieri, Michele Pellegrini, and Elisa Turrini. QoS–Aware Clouds. In *2010 IEEE 3rd International Conference on Cloud Computing*, pages 321–328. IEEE, July 2010.

55. André Lage Andre Lage Freitas, Nikos Parlavantzas, Jean-louis Pazat, and Université Européenne De Bretagne. An Integrated Approach for Specifying and Enforcing SLAs for Cloud Services. In *2012 IEEE Fifth International Conference on Cloud Computing*, pages 376–383. IEEE, June 2012.

56. Andrés García García, Ignacio Blanquer Espert, and Vicente Hernández García. SLA-driven dynamic cloud resource management. *Future Generation Computer Systems*, 31:1–11, February 2014.

57. Nirnay Ghosh and Soumya K Ghosh. An approach to identify and monitor SLA parameters for storage-as-a-service cloud delivery model. In *2012 IEEE Globecom Workshops*, pages 724–729. IEEE, December 2012.

58. Matthew L. Hale and Rose Gamble. SecAgreement: Advancing Security Risk Calculations in Cloud Services. In *2012 IEEE Eighth World Congress on Services*, pages 133–140. IEEE, June 2012.

59. Matthew L. Hale and Rose Gamble. Building a Compliance Vocabulary to Embed Security Controls in Cloud SLAs. In *2013 IEEE Ninth World Congress on Services*, pages 118–125. IEEE, June 2013.

60. Mohamad Hamze, Nader Mbarek, and Olivier Togni. Self-establishing a Service Level Agreement within autonomic cloud networking environment. In *2014 IEEE Network Operations and Management Symposium (NOMS)*, pages 1–4. IEEE, May 2014.

61. Petri Helo, Mikko Suorsa, Yuqiuge Hao, and Pornthep Anussornnitisarn. Toward a cloud-based manufacturing execution system for distributed manufacturing. *Computers in Industry*, 65(4):646–656, May 2014.

62. Xin Hong and ChunMing Rong. Multiple Data Integration Service. In *2014 28th International Conference on Advanced Information Networking and Applications Workshops*, pages 860–865. IEEE, May 2014.

63. Yuh-Jong Hu, Win-Nan Wu, and Di-Rong Cheng. Towards law-aware semantic cloud policies with exceptions for data integration and protection. In *Proceedings of the 2nd International Conference on Web Intelligence, Mining and Semantics - WIMS '12*, page 1, New York, New York, USA, June 2012. ACM Press.

64. Vatche Ishakian. Strategic and operational services for workload management in the cloud. January 2013.

65. Hasan M. Jamil. Mapping abstract queries to big data web resources for on-the-fly data integration and information retrieval. In *2014 IEEE 30th International Conference on Data Engineering Workshops*, pages 62–67. IEEE, March 2014.

66. Balachandra Reddy Kandukuri, Ramakrishna Paturi V., and Atanu Rakshit. Cloud Security Issues. In *2009 IEEE International Conference on Services Computing*, pages 517–520. IEEE, September 2009.

67. Wonil Kim, Joo Hwan Lee, Chuleui Hong, Changhee Han, Hanku Lee, and Bongshik Jang. An innovative method for data and software integration in SaaS. *Computers & Mathematics with Applications*, 64(5):1252–1258, September 2012.

68. Yousri Kouki, Frederico Alvares de Oliveira, Simon Dupont, and Thomas Ledoux. A Language Support for Cloud Elasticity Management. In *2014 14th IEEE/ACM International Symposium on Cluster, Cloud and Grid Computing*, pages 206–215. IEEE, May 2014.

69. Andy Lawrence, Karim Djemame, Oliver Wäldrich, Wolfgang Ziegler, and Csilla Zsigri. Using service level agreements for optimising cloud infrastructure services. pages 38–49, December 2010.

70. Cecil Li, Ritaban Dutta, Corne Kloppers, Claire D'Este, Ahsan Morshed, Auro Almeida, Aruneema Das, and Jagannath Aryal. Mobile application based sustainable irrigation water usage decision support system: An intelligent sensor CLOUD approach. In *2013 IEEE SENSORS*, pages 1–4. IEEE, November 2013.

71. Ge Li, Frederic Pourraz, and Patrice Moreaux. PSLA: A PaaS Level SLA Description Language. In *2014 IEEE International Conference on Cloud Engineering*, pages 452–457. IEEE, March 2014.

72. Peng Liu, Xiaoying Xiaoxuan Wang, and Aihua Bao. Ontology Automatic Constructing Based on Relational Database. In *2010 Ninth International Conference on Grid and Cloud Computing*, pages 412–415. IEEE, November 2010.

73. "Dan C. Marinescu". Chapter 3 - cloud infrastructure. In Dan C. Marinescu, editor, *Cloud Computing*, pages 67 – 98. Morgan Kaufmann, 2013.

74. Ivan Breskovic Michael Maurer. Cost-Efficient Utilization of Public SLA Templates in Autonomic Cloud Markets.

75. Michael Maurer, Vincent C. Emeakaroha, Ivona Brandic, and Jörn Altmann. Costbenefit analysis of an SLA mapping approach for defining standardized Cloud computing goods. *Future Generation Computer Systems*, 28(1):39–47, January 2012.

76. Svilen R. Mihaylov. A scalable approach to complex computations. January 2012.

77. Wang Ning, Xu De, and Xu Baomin. Collaborative Integration and Management of Community Information in the Cloud. In *2010 International Conference on E-Business and E-Government*, pages 1406–1409. IEEE, May 2010.

78. Rabi Prasad Padhy, Dr. Suresh, and Chandra Satapathy. SLAs in Cloud Systems: The Business Perspective 1.

79. Carmelo Pino, Salvatore Ravida, and Santo Scibilia. Evaluation of federated database for distributed applications in e-government. In *2013 7th International Conference on Application of Information and Communication Technologies*, pages 1–5. IEEE, October 2013.

80. Steve Pruitt and Anthony Wiley. Hp relate: A customer communication system for the smb market. In *Proceedings of the 2012 ACM Symposium on Document Engineering*, DocEng '12, pages 141–144, New York, NY, USA, 2012. ACM.

81. Meng Maggie Qiu, Ying Zhou, and Chen Wang. Systematic Analysis of Public Cloud Service Level Agreements and Related Business Values. In *2013 IEEE International Conference on Services Computing*, pages 729–736. IEEE, June 2013.

82. Mariam Rady. Parameters for service level agreements generation in cloud computing: A client-centric vision. In *Proceedings of the 2012 International Conference on Advances in Conceptual Modeling*, ER'12, pages 13–22, Berlin, Heidelberg, 2012. Springer-Verlag.

83. Massimiliano Rak, Loredana Liccardo, and Rocco Aversa. A SLA-based interface for security management in cloud and GRID integrations. In *2011 7th International Conference on Information Assurance and Security (IAS)*, pages 378–383. IEEE, December 2011.

84. Massimiliano Rak, Neeraj Suri, Jesus Luna, Dana Petcu, Valentina Casola, and Umberto Villano. Security as a Service Using an SLA-Based Approach via SPECS. In *2013 IEEE 5th International Conference on Cloud Computing Technology and Science*, volume 2, pages 1–6. IEEE, December 2013.

85. Christoph Redl, Ivan Breskovic, Ivona Br, Schahram Dustdar, and Ivona Brandic. Automatic SLA Matching and Provider Selection in Grid and Cloud Computing Markets. In *2012 ACM/IEEE 13th International Conference on Grid Computing*, pages 85–94. IEEE, September 2012.

86. Chunming Rong, Son T. Nguyen, and Martin Gilje Jaatun. Beyond lightning: A survey on security challenges in cloud computing. *Computers & Electrical Engineering*, 39(1):47–54, January 2013.

87. Sherif Sakr and Anna Liu. SLA-Based and Consumer-centric Dynamic Provisioning for Cloud Databases. In *2012 IEEE Fifth International Conference on Cloud Computing*, pages 360–367. IEEE, June 2012.

88. Maria Salama and Ahmed Shawish. A QoS-Oriented Inter-cloud Federation Framework. In *2014 IEEE 38th Annual Computer Software and Applications Conference*, pages 642–643. IEEE, July 2014.

89. Rashed Salem, Omar Boussaïd, and Jérôme Darmont. Active XML-based Web data integration. *Information Systems Frontiers*, 15(3):371–398, January 2013.

90. S. Sathya and M. Victor Jose. Application of Hadoop MapReduce technique to Virtual Database system design. In *2011 International Conference on Emerging Trends in Electrical and Computer Technology*, pages 892–896. IEEE, March 2011.

91. D. Serrano, S. Bouchenak, Y. Kouki, T. Ledoux, J. Lejeune, J. Sopena, L. Arantes, and P. Sens. Towards QoS-Oriented SLA Guarantees for Online Cloud Services. In *2013 13th IEEE/ACM International Symposium on Cluster, Cloud, and Grid Computing*, pages 50–57. IEEE, May 2013.

92. Dimokritos Stamatakis and Olga Papaemmanouil. SLA-driven workload management for cloud databases. In *2014 IEEE 30th International Conference on Data Engineering Workshops*, pages 178–181. IEEE, March 2014.

93. Katerina Stamou. Systematic SLA data management. pages 63–68, April 2014.

94. Katerina Stamou, Verena Kantere, and Jean-Henry Morin. SLA data management criteria. In *2013 IEEE International Conference on Big Data*, pages 34–42. IEEE, October 2013.

95. Katerina Stamou, Verena Kantere, Jean-Henry Morin, and Michael Georgiou. A SLA graph model for data services. In *Proceedings of the fifth international workshop on Cloud data management - CloudDB '13*, pages 27–34, New York, New York, USA, October 2013. ACM Press.

96. Katerina Stamou, Verena Kantere, Jean-Henry Morin, and Michael Georgiou. SLA Information Management through Dependency Digraphs: The Case of Cloud Data Services. In *2014 47th Hawaii International Conference on System Sciences*, pages 5038–5047. IEEE, January 2014.

97. Anandita Singh Thakur and P. K. Gupta. Framework to Improve Data Integrity in Multi Cloud Environment.

98. Andreas Thor and Erhard Rahm. CloudFuice: a flexible cloud-based data integration system. pages 304–318, June 2011.

99. Yuan Tian, Biao Song, and Eui-Nam Huh. Dynamic content-based cloud data integration system with privacy and cost concern. In *Proceedings of the 8th Annual Collaboration, Electronic messaging, Anti-Abuse and Spam Conference on - CEAS '11*, pages 193–199, New York, New York, USA, September 2011. ACM Press.

100. Yuan Tian, Biao Song, Junyoung Park, and Eui-Nam Huh. Inter-cloud data integration system considering privacy and cost. pages 195–204, November 2010.

101. Milad Torkashvan and Hassan Haghighi. CSLAM: A framework for cloud service level agreement management based on WSLA. In *6th International Symposium on Telecommunications (IST)*, pages 577–585. IEEE, November 2012.

102. Kazi Wali Ullah and Abu Shohel Ahmed. Demo Paper: Automatic Provisioning, Deploy and Monitoring of Virtual Machines Based on Security Service Level Agreement in the Cloud. In *2014 14th IEEE/ACM International Symposium on Cluster, Cloud and Grid Computing*, pages 536–537. IEEE, May 2014.

103. unknown Authors, John Stankovic, Sang H. Son, and Chi D. Nguyen. The Cogency Monitor: An External Interface Architecture For a Distributed Object-Oriented Real-Time Database System. *IEEE REAL-TIME TECHNOLOGY AND APPLICATION SYMPOSIUM (RTAS&APOS;98*, 1998.

104. Elena Vasilyeva, Maik Thiele, Christof Bornhövd, and Wolfgang Lehner. Leveraging flexible data management with graph databases. In *First International Workshop on Graph Data Management Experiences and Systems - GRADES '13*, pages 1–6, New York, New York, USA, June 2013. ACM Press.

105. Sebastian Villarroya, David Martínez Casas, Moisés Vilar, José R. Ríos Viqueira, José A. Taboada, and José M. Cotos. Heterogeneous sensor data integration for crowdsensing applications. In *Proceedings of the 18th International Database Engineering & Applications Symposium on - IDEAS '14*, pages 270–273, New York, New York, USA, July 2014. ACM Press.

106. Athanasios Voulodimos, Spyridon V. Gogouvitis, Nikoletta Mavrogeorgi, Dimosthenis Kyriazis, Stefanos Koutsoutos, Vasileios Alex, Elliot Kolodner, Per Br, Theodora Varvarigou, Roman Talyansky, Vasileios Alexandrou, and Per Brand. A Unified Management Model for Data Intensive Storage Clouds. In *2011 First International Symposium on Network Cloud Computing and Applications*, pages 69–72. IEEE, November 2011.

107. Yanxia Wang. Research on web data integration framework based on cloud computing. In *2012 2nd International Conference on Consumer Electronics, Communications and Networks (CECNet)*, pages 2823–2826. IEEE, April 2012.

108. Zhou Wei, Guillaume Pierre, and Chi-Hung Chi. CloudTPS: Scalable Transactions for Web Applications in the Cloud. *IEEE Transactions on Services Computing*, 5(4):525–539, 2012.

109. Chuanwei Xu, Shuo Yang, Jiting Huang, and Changqing Ji. Ontology Based Heterogeneous Data Integration Framework Facing Mobile Environment. In *2014 IEEE 12th International Conference on Dependable, Autonomic and Secure Computing*, pages 367–371. IEEE, August 2014.

110. Peng Zhang, Yanbo Han, Zhuofeng Zhao, and Guiling Wang. Cost Optimization of Cloud-Based Data Integration System. In *2012 Ninth Web Information Systems and Applications Conference*, pages 183–188. IEEE, November 2012.

111. Xiaofei Zhang and Lei Chen. Fault tolerance study for durable storage on the cloud. In *2011 International Conference on Cloud and Service Computing*, pages 360–365. IEEE, December 2011.

112. Liang Zhao, Sherif Sakr, and Anna Liu. A Framework for Consumer-Centric SLA Management of Cloud-Hosted Databases. *IEEE Transactions on Services Computing*, PP(99):1–1, 2013.

113. Guo Zhien and Dai Yiqi. Security SLAs for IMS-based Cloud Services. In *2012 Seventh ChinaGrid Annual Conference*, pages 57–60. IEEE, September 2012.

114. Wolfgang Ziegler. Slas for energy-efficient data centres: The standards-based approach of the optimis project. In *Proceedings of the First International Conference on Energy Efficient Data Centers*, E2DC'12, pages 37–46, Berlin, Heidelberg, 2012. Springer-Verlag.