

Naiioe-ane ioeoeoe eiiieaenfa enoide-ane eno-ieeia

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The paper deals with the problems of semantic publications of historical records on the basis of Semantic Web technologies. Such publications provide the texts of historical records in Internet with metadata (additional information). In the field of historical research, different ontologies can be used in order to represent information of historical records as well as metadata related to them. However, the authors of the paper have developed a specific (original) mode of representation of data retrieved from historical records that is focused on the links between evidences retrieved from diverse historical records. Hence, historical events are constituted as systems of relations between different historical objects, which are described in historical sources, and semantic publications should reveal these relations in order to provide researchers with appropriate tools of historical source criticism.

Ca iineaaiea ianeieuei eao a naye n oedieei alaaiaiea oodifiaee Naiioe-aneia Aaa [Shadbolt et al 2006] oadiei «naiioe oaeuoa a naoe Eioadiao, niaaaiua aiiiieoaeuiui eioidiaoeiiui neiia, a eaeie-oi noariae ainiioecafayuei niune oaeuoa a oioe-aeiaae, -eopuee aaiue oaeu. Iineieueo ciaiey e oae epaae, iadaupueonny e naiioe-aneie ioeoeoeyi, daciua, iieiaiea naiioe-aneeo aniaeoia oaeuoa ai iinodiaiay eiae-aneeo einodoeoe. Yoi ideaiieo e nouanoaaiui dacee-eyi a niiniaa odae ioeoeoae – yaeooidiua iao-iua aodiae [Shotton 2009] e oedofiaa aeaeioae [Baruzzo et al 2009]. Aiea aa Aaad. naiioe, eioiua iaepaaronny a niaaaiuo idiaeo: eniueciaiea eioiueoaiuo neiaaiae oadieia, niaaaiuo eia e aa «nouaeo-iaaeo-iaaeo» e, iaieia, auaaiea a oaeuoa eadadobe niuniauoe aeiea e ioifiaee iaao ieie. Anee a iadaia iaeano, a ai adidii neo-aa iadaoanony naiioe-aneay naou aieoaa oaeuoa, adaeapuay ciaiey iiai, oi odae iiaoi iiaia i ioeoeoae, caep-aaonny, ai-iaauo, a danoeaiee aicifaiioae e ooe-aeiee ea-anoaa ienee eioidiaoe. Ai-adiuo, iyaeyp aeuiiaeoeo enneaiaiee n iiiiup idiaaod aadiade-aneia auiaa. A naye n yoei i-aiu calai-eaie auayaeo iadniaeoeaa ia iaeioiua enneaiaiey ia yoo oai oaa nouaiaaop [Mirzaee et al 2005, Ahonen and Hyvonen 2009], iaiee iauidieiyoua eio ioeoeoae yaeypony iioieiae, eioiua iiaoo aeaeieaiyounny a oediee idaaaeo – io ioinuo oadieieae-aneeo neiiaa ciaiey i adiaioiee iaeano a aeaa eeania, iaueoia, iofaiee, iadaie-aeie, eiae-aneeo idaae «ane-oi», e o.a. Ca iineaaiee enoidee e eno-ieeiaaiea. A ea-anoaa iaieiaa daceaiioaie e oieaodnaeuiie -anoi daniaodeaonny iioieiey CIDOC C enoide-aneeo niauee n iadniaeeyie, eo dieye, aiaaode-aneie iaanoi, iiaioaie e iadieaie adiaie [Doerr 2003]. Ia yoe i ocee oae [Ide and Woolner 2007, Pasin 2007], eioiua ianeaaiaae niaueei-ideaiodeiaaiue iiaoi. Aadiiae noaue auie io enoide-aneeo ciaiee, a eioiui niaueey auoioap io ocaie naoe, a oieuei aa nacyie, iiaaaiuee naeaoaeuonoaie eno-iee ioeoeoae ia iiaa iioieiae, caieaiuo a oidiao RDF eee OWL, aeaeony aiaieui cadadaii aeie. Iyoiio aeooaeuiui yaeu: naiioe-aneeo Wiki-neoi. Iaeaaay oadaeadiue ay Wiki aicifaiioyie daniaaiaaiaa niaaiey e daeaeoiaiey Aa-noa naiioe-aneeo neie. Oae, Semantic MediaWiki (SMW) idainoaeay noaueeuiua noaanoaa oioiaaie daciodee ay auaaie et al 2007]. Dacia-aiue oaei iadaci oaeu ioaeo auou idiaadaciiaa iaia «oaeia» (odeiaia a oidiaa RDF). Adaaay iia ycuu – ACE (Attempto Controlled English). Oaeuoa ia oaei ycuu iiaoo auou ioiaaaiua a oioioe iaieioiaa iiaiaaiee eiae-aneee auia n iiiiup eioadidaoaoida ycuu eiae-aneeo au-enaeiee Prolog [Kuhn 2009]. Ay ioaiee aicifaiioae naiioe aeioiaiaa i enoidee Aiaaadaa [Eaiaa e Eociaota 2003]. A naye n oai, -oi Wiki-neoi idaeioeiaaiua ia niaaaiue ycuu, a adaaiaoonneeo oaeuoa ideoeini eniueciaaou oioiaaiua oainoeoiee ia iiaa niaaaiiaa donneia aeoaeeo. Iaeaa-aiay o iaeioiua adoea adaeoou eno-iee – iadieia, ocaiey ia adanae e ioiaaeoay aieoiaia, nneee a oaeuoa ia «iadaaeapueanny» oaeuoa oaaiaio, a oaeaa niaaeiyou aiaoa nooeooidioe e naiioe-aneep daciodeo, eniueciaaou XI naiioe-aneeo ioeoeoae enoide-aneeo eno-ieeia iaeo eniueciaaounny iia oieuei ay o-aiuo oaeae. Ay iieioaiuo ioae neoi. xoi ae eanaonny AceWiki, oi adaceoaeuiua noaanoaa ACE ieaeeenu ideioia niaaiee n aicifaiioyie SMW a neo oaeuoa aeioiaia ieaeeay aicifaiui eou -anoe-i. Aicifaiioe aeuiiaeae eniueciaiey oaeia iadaaia ay naiioe-aneia Dineeneia ainoadnoaiaa adoea adaeiee aeoi (1656–1666). O.1,2. Aaiaaieen, 2003. Ahonen and Hyvonen 2009 Publishing Historical Texts on the Semantic Web – A Case Study // Proceedings of the Third IEEE International Conference on Semantic Computing (ICSC2009). Berkeley, 2009. Pp. 167-173. Baruzzo et al 2009. Baruzzo A. et al. Toward Semantic Digital Libraries: Exploiting Web2.0 and Semantic Services in Cultural Heritage // Journal of Digital Information. 2009. Vol. 10, '6. http://journals.tdl.org/jodi/article/viewArticle/688/576 Varfolomeyev and Ivanovs 2009. Varfolomeyev A., Ivanovs A. Knowledge-Based Scholarly Environment Project for Regional Historical Studies // Interactive Systems and Technologies: the Problems of Human-Computer Interaction. Vol.III. Collection of Scientific Papers. Ulyanovsk: ULSTU, 2009. Pp.273-276. Doerr 2003. Doerr M. The CIDOC Conceptual Reference Module: An Ontological Approach to Semantic Interoperability of Metadata // AI Magazine. 2003. Vol. 24, '3. Pp. 75-92. Ide and Woolner 2007. Ide N., Woolner D. Historical Ontologies // Words and Intelligence II: Essays in Honor of Yorick Wilks. Ed. by Ahmad K, Brewster C., Stevenson M. [S.I.]: Springer, 2007. Pp.137-152. Krötzsch et al 2007. Krötzsch M., Vrandecic D., Völkel M., Haller H., Studer R. Semantic Wikipedia // Journal of Web Semantics. 2007. Vol.5, Issue 4. Pp.251–261. Kuhn 2009. Kuhn T. How Controlled English Can Improve Semantic Wikis // Proceedings of the Fourth Workshop on Semantic Wikis, European Semantic Web Conference 2009. CEUR Workshop Proceedings. Vol.464. [S.I.], 2009. Mirzaee et al 2005. Mirzaee V., Iverson L., Hamidzadeh B. Computational Representation of Semantics in Historical Documents // Proceedings of the XVI international Conference of the Association for History and Computing (AHC 2005). Amsterdam, 2005. Pp.199-206. Pasin 2007. Pasin M. PhiloSURFical: Browse Wittgenstein's Tractatus with the Semantic Web // Wittgenstein and the Philosophy of Information – Proceedings of the 30th International Ludwig Wittgenstein Symposium in Kirchberg. Ed. by Alois Pichler, Herbert Hrachovec. [S.I.], 2007. Pp. 319-335. Shadbolt et al 2006. Shadbolt N., Berners-Lee T., and Hall W. The Semantic Web Revisited // IEEE Intelligent Systems. 2006. Vol. 21, Issue 3. Pp. 96 - 101. Shotton et al 2009. Shotton D. et al. Adventures in Semantic Publishing: Exemplar Semantic Enhancements of a Research Article // PLoS Computational Biology. 2009. Vol.5. 14. e1000361.

<http://dx.doi.org/10.1371/journal.pcbi.1000361> de Waard 2010. de Waard A. From Proteins to Fairytales: Directions in Semantic Publishing // IEEE Intelligent Systems. 2010. Vol. 25, Issue 2. Pp.83 - 88.