



传染病本体构建及其在知识服务平台中的应用

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摘要 针对国内传染病本体构建中存在一致性差和共享困难等问题,在参照UMLS、SNOMED-CT及MeSH等知识体系的基础上构建传染病本体,开发传染病知识服务平台,采集多种来源的信息资源,利用传染病本体对其进行结构化处理和标注,并以知识罗盘形式展示概念之间、概念和文献之间的关系,为科研人员和公众提供知识服务。

关键词: [传染病本体](#) [知识服务平台](#) [知识罗盘](#)

Abstract: To solve problems of constructing and applying the infection Ontology, such as inconsistent and difficult reuse, this paper constructs infection disease Ontology based on legacy knowledge system, including UMLS, SNOMED-CT and MeSH, then develops infection knowledge service platform collecting various sources of information, and utilizes above Ontology to normalize and annotate the information, and shows the relationship between the concepts and information by knowledge compass, supplying knowledge service to researchers and consumers.

Keywords: [Infectious](#), [Disease](#), [Ontology](#), [Knowledge service platform](#), [Knowledge compass](#)

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[1] de Haan G, van der Veer G C, van Vliet J C. Formal Modelling Techniques in Human-computer Interaction[J]. *Acta Psychologica*, 1991, 78(1-3): 27-67.

[2] SNOMED CT[EB/OL]. [2011-07-21]. http://www.nlm.nih.gov/research/umls/Snomed/snomed_main.html.

[3] UMLS[EB/OL]. [2011-07-21]. <http://www.nlm.nih.gov/research/umls/quickstart.html>.

[4] Gene Ontology [EB/OL]. [2011-07-21]. <http://www.geneontology.org/>.

[5] BioCaster [EB/OL]. [2011-07-21]. <http://biocaster.nii.ac.jp/>.

[6] Collier N, Kawazoe A, Jin L, et al. A Multilingual Ontology for Infectious Disease Surveillance: Rationale, Design and Challenges [J]. *Language Resources and Evaluation*, 2007, 40 (3-4): 405-413.

[7] Open Biological and Biomedical Ontologies [EB/OL]. [2011-07-21]. <http://obofoundry.org>.

[8] Sintchenko V. Infectious Disease Informatics[M]. New York: Springer, 2010: 389.

[9] 方安,王惠临,王军辉,等.临床疾病领域本体构建方法研究——以手足口病本体为例[J].情报杂志,2009,28(11):180-184.

[10] 高珊,王文俊,杜磊,等.传染病应急案例共享本体模型研究[J].计算机应用,2010,30(11):2924-2927.

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