

## descriptive metadata specification

 ${\bf Canonical\ name} \quad {\bf Descriptive Metadata Specification}$ 

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Author yi6604 (10640) Entry type Definition Classification msc 68P20 Let  $L = \cup Dk$  be a set of literals defined as the union of domains Dk of simple datatypes (e.g., strings, numbers, dates, etc.). Let also R and P represent sets of labels for resources and properties respectively. A descriptive metadata specification is a structure  $(G, R \cup L \cup P, F)$ , where: (1)  $F: (V \cup E)$   $(R \cup L \cup P)$  can assign general labels  $R \cup P$  and literals from L to nodes of the graph structure; (2) for each directed edge e = (vi, vj) of G,  $F(vi) \in R \cup L$ ,  $F(vj) \in R \cup L$  and  $F(e) \in P$ ; (3)  $F(vk) \in L$  if and only if node vk has outdegree 0.