Semantic Search for Literature Retrieval for the **Environmental Domain** Deya Banisakher, Maria E. Presa Reyes Research Mentors: Mark Finlayson and Shu-Ching Chen, Computer and Information Sciences Rene Price, Earth and Environment

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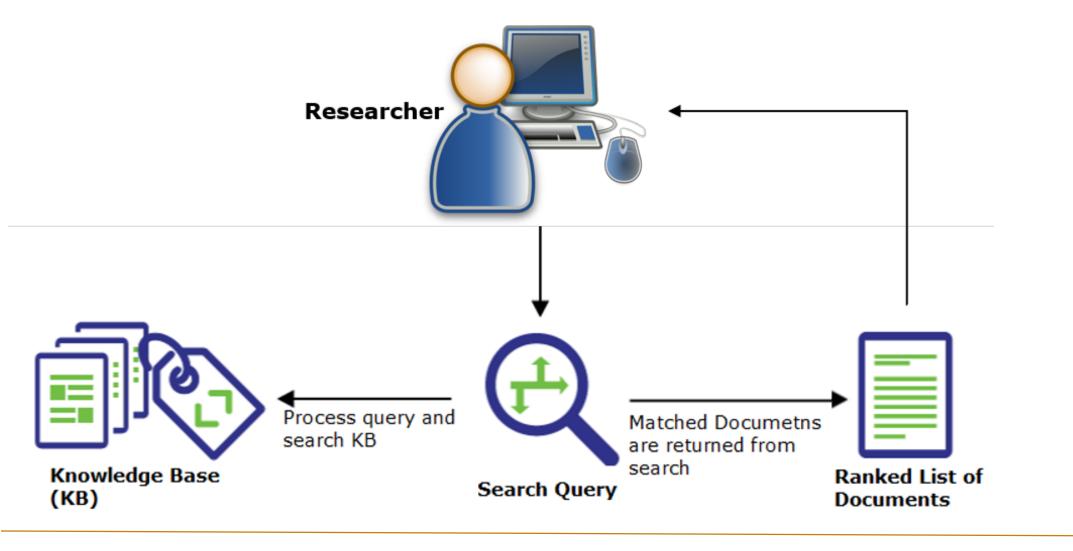
Problem

- Literature search is an unavoidable first task for any research project.
- Researchers rely on systems utilizing standard **search engine techniques**.
- Several key **articles or documents** may be missed in the search process due to those search engine techniques which rely mainly on **keyword** matching. Joogle



Solution:

Build a **semantic search system** to enhance the literature retrieval for the environmental domain.





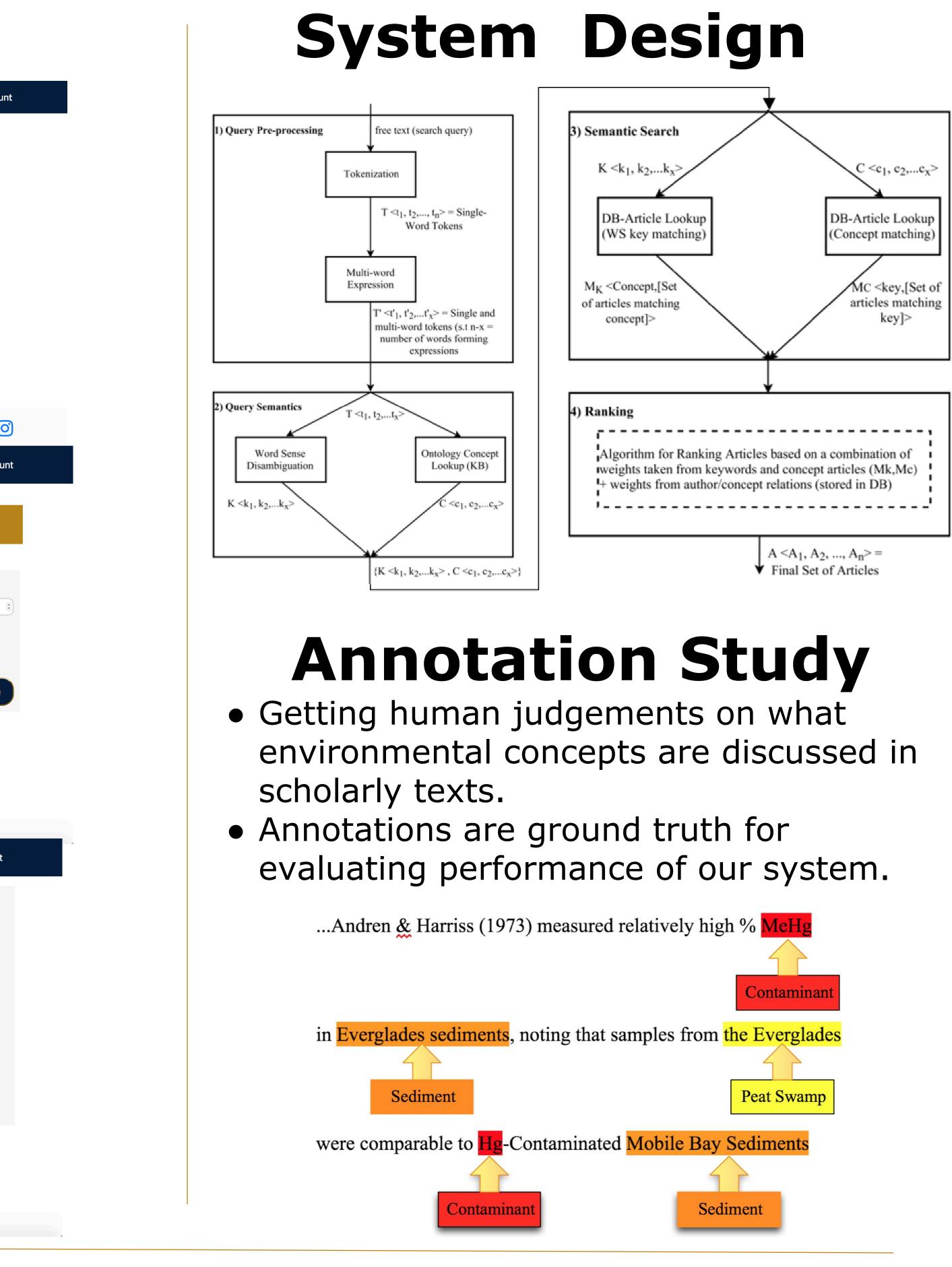


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<i>Jing K. Wang</i> - 2014-07-15 The soil to atmosphere flu	uxes of greenhouse gase:	s N2O, CH4 and CO2 and their relationships v	with soil characteristics	were
•	•	vamps (Teremaal, Likupang and Kema) in Nor n and nitrogen, but the greenhouse gas fluxes		•
fluxes ranged -6.05-13.1	14µmolm-2h-1, -0.35-0.6	61µmolm-2h-1 and -1.34-3.88mmolm-2h-1	I for N2O, CH4 and CO	2, respectively.
were insignificant. CO2 fl	lux was influenced only by	ng different mangrove swamps and among tida y mangrove swamps and the value was higher	r in Kema mangrove. No	one of the
		ion of CH4 fluxes among the sampling plots. N correlated with water content and organic carb		
		d to the accumulations of organic matters in N	orth Sulawesi mangrov	e swamps
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