

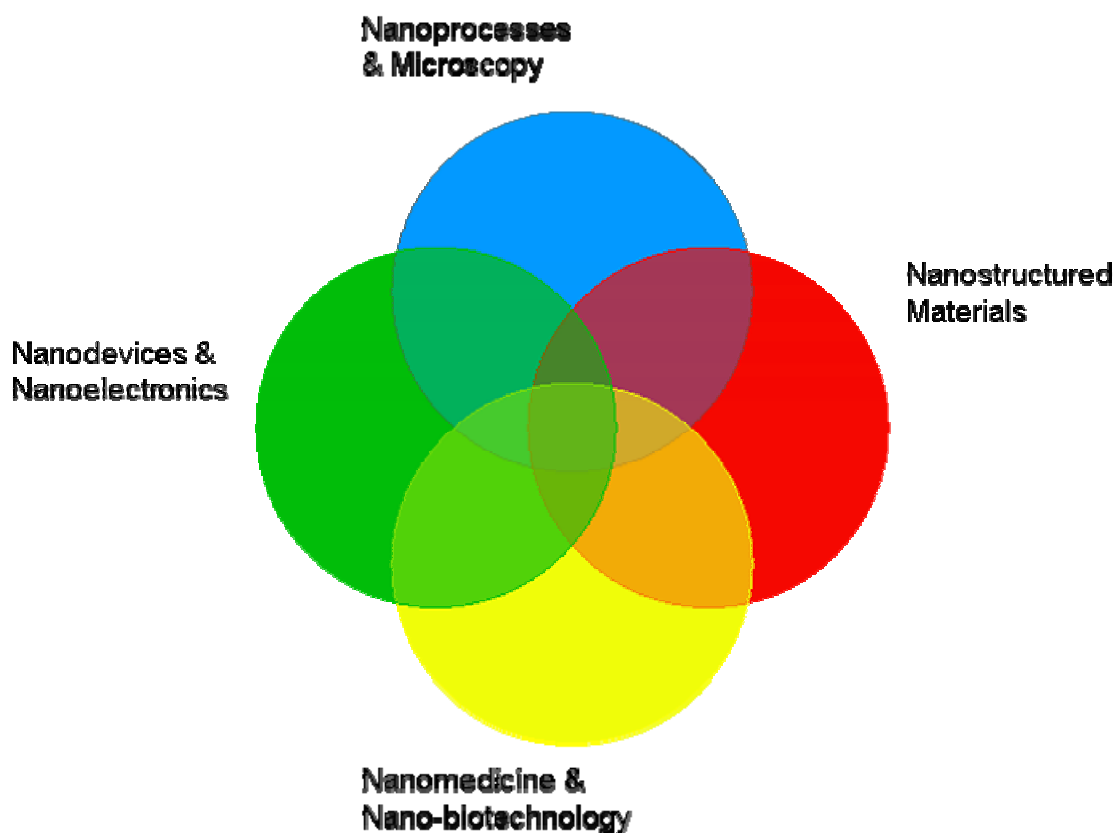
Profiling Nano R&D

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We, at Georgia Tech, have compiled an encompassing dataset of nano science & engineering (NSE) research paper and patent abstracts.¹ In so doing, we have grappled with multiple questions: 1) how to bound the domain? [c.f., Fig. 1] 2) what search approach is most suitable? [we used a modular Boolean strategy] 3) what databases to search? [3 major publication & 3 patent sources] and 4) how to manage the resulting huge datasets? We present information on these datasets that incorporate roughly 750,000 articles and 60,000 patents, compiled in *VantagePoint*. We discuss how others may access this resource for their related analyses.

We present fundamental profiles of NSE R&D over the period, 1990-2006. We compare global and US NSE activity patterns. We illustrate both macro-scale mapping (e.g., world metro area nano publishing & patenting clusters) and micro-scale zoom-in (e.g., profiling nano activity at a given university).

Figure 1. Nano Domains



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