

MGroup

- Research group focused on material design
 - Materials and simulation methodology
 - Stochastic mechanics and optimization
 - High performance computing
- Key projects
 - MASTER: Optimum design of CNT-reinforced materials
 - NUMEXAS: Exascale-enabled algorithms for the solution of computational mechanics problems

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- Ontology projects
 - MetaOn: Ontology driven metadata creation for text and image search
 - MindTheNet: Data analysis for cultural resources and social networks using ontologies
 - Parmenides: Ontology driven temporal text mining for extracting temporally-defined knowledge

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- Expertise in
 - OWL for semantic web
 - Ontology tools (Protégé and SWOOP)
 - Ontology building (Scope definition, capturing and encoding, class and taxonomy definition)
 - Ontology integration and evaluation (tagging objects with ontology-driven metadata)