CMSC 818G - Information-Centric Design of Context-Aware Systems

**Aim:** The aim of this course is to present the students with an overview of different aspects of the field of context-aware computing and systems.

**Topics to be covered (tentative):**

- Context, Context-aware computing,
- Information dynamics,
- Location – indoor and outdoor,
- Design and implementation of Context-aware systems,
- Context modeling, Context reasoning, Learning from context,
- Systems aspects such as distributed and federated architecture, performance of context-aware systems

**Course work:** The lectures will be broken down into 7 units of 4 classes each. Each unit will have 3 lecture classes followed by a discussion and project update class.

**Assignments:** Each assignment will be done individually and will consist of paper readings and a short presentation/discussion and write up based on them.

**Project:** Every project group has to do a course project. There will be regular project updates in class where students will present the work done so far.

**Exams:** There will be one mid-term and one end-term exam.

**Grading:** Grades will be based on assignments, projects, and exams.

**Textbook:** There is no textbook for this course. Papers will be assigned for reading.

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This course counts as a PhD/MS/MS Comps qualifying course in Systems.