**CS 491/515 Computational Blockchain**

SIUC 2023

Instructor: Dr. Henry Hexmoor

Homework 1: Smart Contracts

15 points/100

Due in two weeks after assignment—must upload.

This is an individual homework, and no teaming is allowed.

Smart Contracts are a means s to automate transactions on the blockchain. There are numerous benefits from smart contracts. Therea are also limitations from their use.

Go online and find 5-10 papers (from sources such as IEEE and ACM) that are published between 2020-present that describe how smart contracts are in use or designed to be added in blockchains.

Report what you have discovered in a paper that is roughly 2000 words.

Include a set of references at the end of the report.

Here are a few useful search engines:

[**Advanced Google Serach**](https://www.google.com/advanced_search)[**Google scholar (documents)**](https://scholar.google.com/)[**Microsoft Academic Search**](https://academic.microsoft.com/)[**iSeek**](http://www.iseek.com/#/web) [**(Books, Videos, documents)  
Refseek**](https://www.refseek.com/)[**Citeseer (Penn state's paper indexing)**](http://citeseerx.ist.psu.edu/index)  
[**arXiv (Cornell's science DB)**](https://arxiv.org/find)  
[**DBLP**](https://dblp.uni-trier.de/search/) [**CSB**](https://liinwww.ira.uka.de/bibliography/) [**PLOS One**](http://journals.plos.org/plosone/)

You must use multiple, fully published sources and cite them all. Your references must have complete details including authors, date, title, book, conference, or journal details, and a legal publisher. Do not give links or silly sources like “google” or “Wikipedia” as your reference. All in text citations and discussions to references must correspond 1-1.

Rubrics used for homework

1.       Does the report reflect understanding of the core concepts in the assignment? (30%)

2.       Does the report offer adequate and up to date citations and references on the assignment topic? (30%)

3.       Does the report contain enough technical content? (30%)

4.       Is the report well written and coherent? (10%)