

Name: \_\_\_\_\_

USC ID: \_\_\_\_\_

# INF 529 Midterm Exam

## Spring 2017

### Instructions:

Show all work. No electronic devices are allowed. This exam is closed book, closed notes. You have **120 minutes** to complete the exam.

Please prepare your answers on separate sheets of paper. You may write your answers on the sheet of paper with the question (front and back). If you need more space, please attach a separate sheet of paper to the page with the particular question. **Do NOT extend your answer on the back of the sheet for a different question, and do NOT use the same extra sheet of paper to answer more than one question.** The exam will be split apart for grading by different people, and if part of your answer for one question appears on a page given to a different grade because the sheet contains parts of the answer to more than one question, then you will NOT receive credit for that part of the answer not seen by the grader. In particular, **each numbered questions must appear on separate pieces of paper so that the exam can be split for grading.**

Be sure to include your **name** and **USC ID** number **on each page.**

There are **100 points** in all and **3 questions.**

	Q1	Q2	Q3		Total Score
Score					

Name: \_\_\_\_\_

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**Privacy and Security and the Internet of Things -**

Surveillance technology has come down in price. Mass surveillance is no longer reserved for large corporations and governments. Small businesses and homeowners have increasingly deployed networked cameras and sensors, and the wide deployment of these technologies creates new ways in which our privacy is invaded. Sensors that we as consumers deploy to assist us in our daily lives can also be turned inward, and spy on us in unexpected ways.

- 1) List the data available from network accessible sensors that can affect our privacy, and thus constitutes surveillance in some form. In answering this question, list the sensors by the category of surveillance data acquired, including data about our location, data about what we are doing, and data about what we are saying (or hearing). Within each of these categories, identify as many of these sensors that you can think of that are collecting such information, from all kinds of computing devices. (30 points)

Name: \_\_\_\_\_

USC ID: \_\_\_\_\_

- 2) For each of the points of data listed in question 1, describe what your intrinsic expectation of privacy is (i.e. what you feel should be our expectation of privacy in an ideal world regarding accessibility of such data). There can be more than one correct answer to this question. Also explain what our expectation of privacy might be when considering the third party doctrine that was discussed in lecture. In those instances where our expectation might be different considering the 3<sup>rd</sup> party doctrine, list the conditions or reasons that the doctrine might apply (i.e. in what cases is a third party actually involved). (30 points)

