

# On the Ground Validation of Online Diagnosis with Twitter and Medical Records

Todd Bodnar<sup>\*</sup>  
Pennsylvania State University  
Department of Biology  
University Park, PA 16802  
tjb5215@psu.edu

Maybe Conrad, Maybe  
Vicky

Marcel Salathé  
Pennsylvania State University  
Department of Biology  
University Park, PA 16802  
salathe@psu.edu

## ABSTRACT

This is an abstract

## Categories and Subject Descriptors

I.2.1 [Artificial Intelligence]: Applications and Expert Systems—*Medicine and Science*

## General Terms

Experimentation, Human Factors, Validation

## Keywords

Twitter, Validation, Digital Epidemiology, Remote Diagnosis

## 1. INTRODUCTION

## 2. RELATED WORK

## 3. DATA COLLECTION

### 3.1 Medical Records

### 3.2 Twitter Records

## 4. SIGNAL DETECTION

### 4.1 Event Based Signals

### 4.2 Frequency Based Signals

### 4.3 Network Based Signals

## 5. ANALYSIS

## 6. CONCLUSIONS

## 7. REFERENCES

- [1] L. R. Ford and D. R. Fulkerson. Maximal Flow through a Network. *Canadian Journal of Mathematics*, 8(3):399-404, 1956.

---

<sup>\*</sup>Corresponding author