

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

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ABSTRACT

This is an abstract

Categories and Subject Descriptors

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

General Terms

Experimentation, 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.

8. REFERENCES

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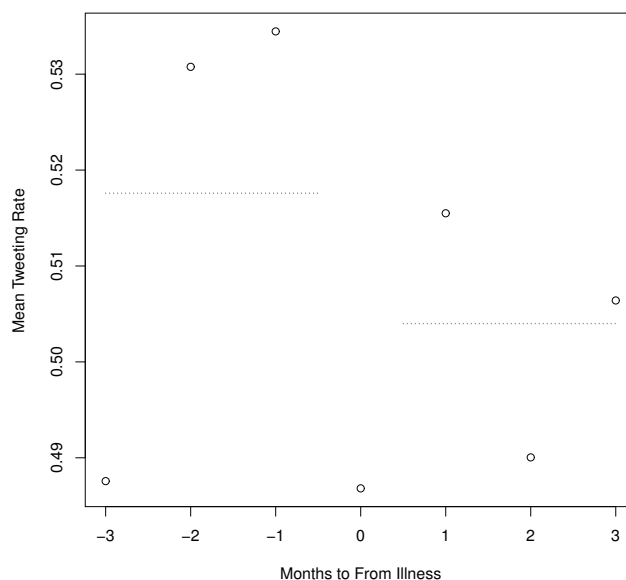


Figure 1: The frequency of tweeting behaviour of individuals in the months before, during and after an illness. Users significantly (check) decrease their rate of tweeting during the time that they had influenza. Dashed lines indicate the mean rate for the three months before / after the illness. (Todo: check significance)