



# The Egyptian Revolution from the Perspective of an Urban Planner: Demonstrations on the Streets of Alexandria, Egypt

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# Switching the Virtual World into the Real World: Demonstrations in Egypt







### Introduction

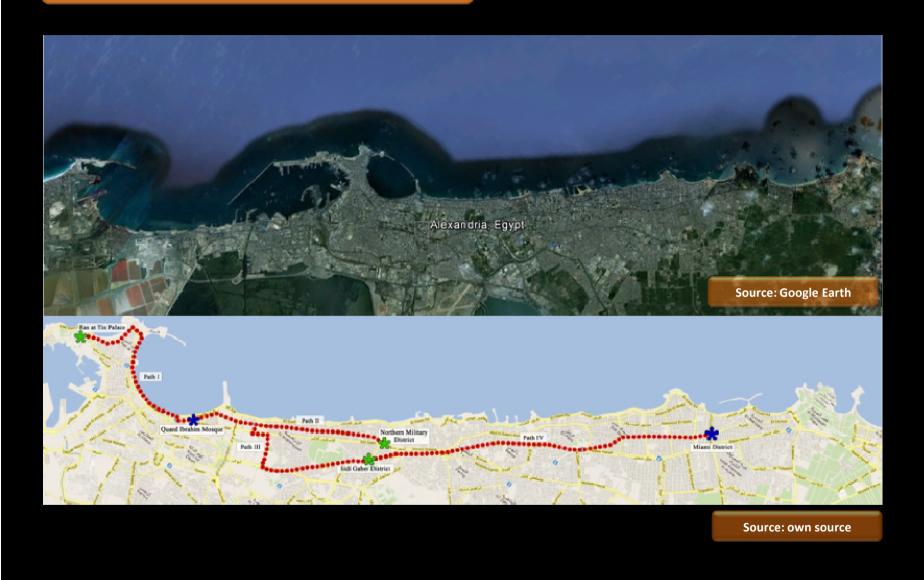
#### **Goal of Research**

- Collecting the feelings of the protestors during the protesting events in Alexandria
- Impacts on humans' feelings: urban settings, human masses, distance, weather,...
- New methods to measure the feelings of people in urban spaces
- Reactions and feelings 

  surrounding, built and non-built environment

#### Introduction

#### **Demonstration Route**



# Examination area

#### **Demonstration Route**





#### **Route characteristics:**

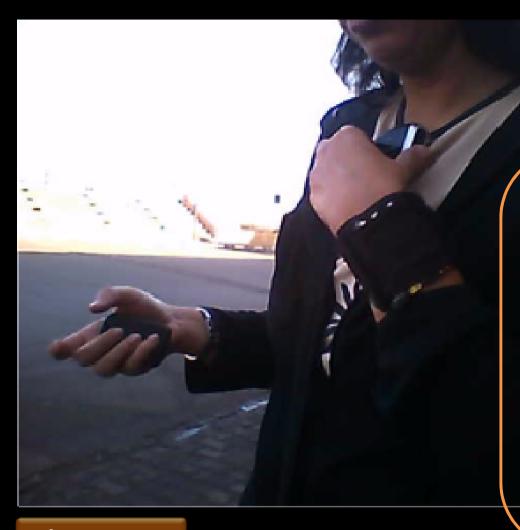
- Strip of 4,34 km
- 10 defined sections along the path

## **Urbanistic sectors**

#### **Different Space Characteristics**



#### **The Participants**



2 female participants equipped with video camera, GPS tracker, one SMART-Band for each

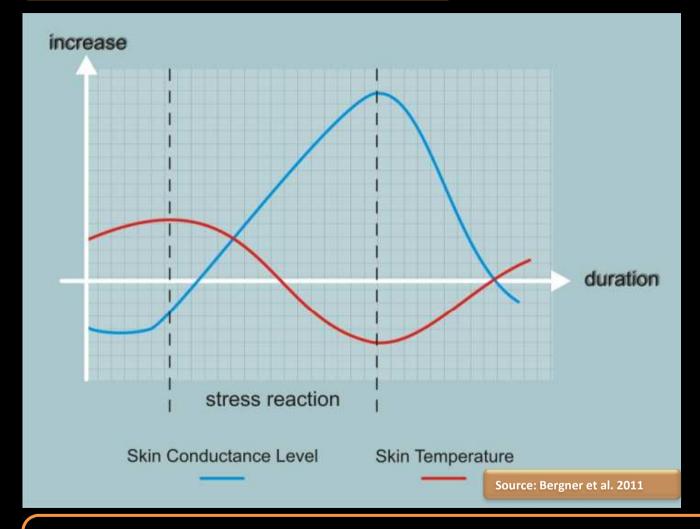
March lasted almost 3 hours

One pause during the walk

Source: own source

# Study design

#### **Measurement Techniques and Analysis**

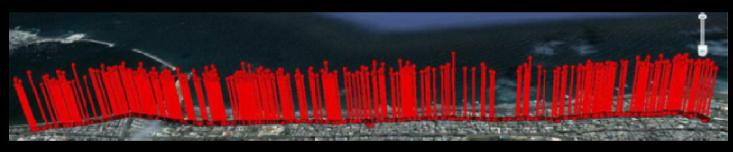


Emotion measurement with physiological vital data identifying stress and concurrent geo-tagging.

Sensor strap

# Street Profiles and Pedestrians' Speed at the Different 10 Street Sections along with Stress Profiles for Participants A & B





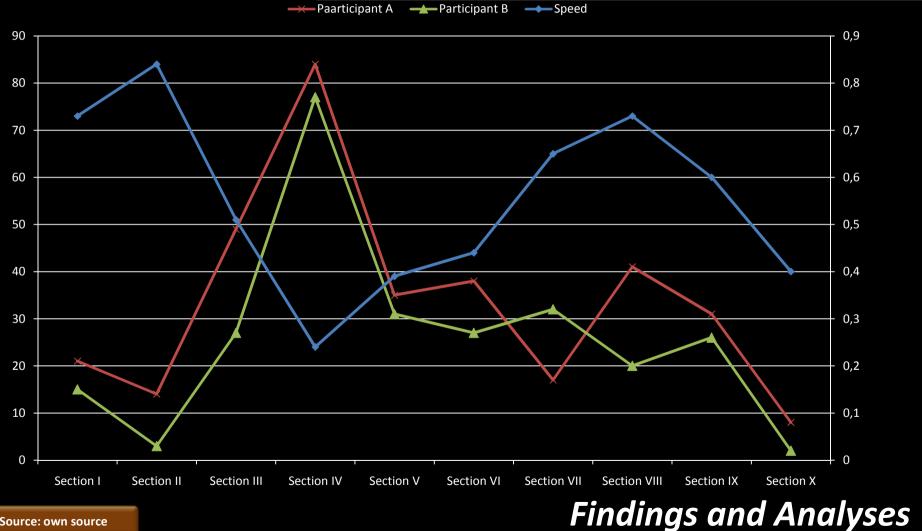


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# Findings and Analyses

Amount of Stress Points & Average Pedestrian's Speed for each Street Section





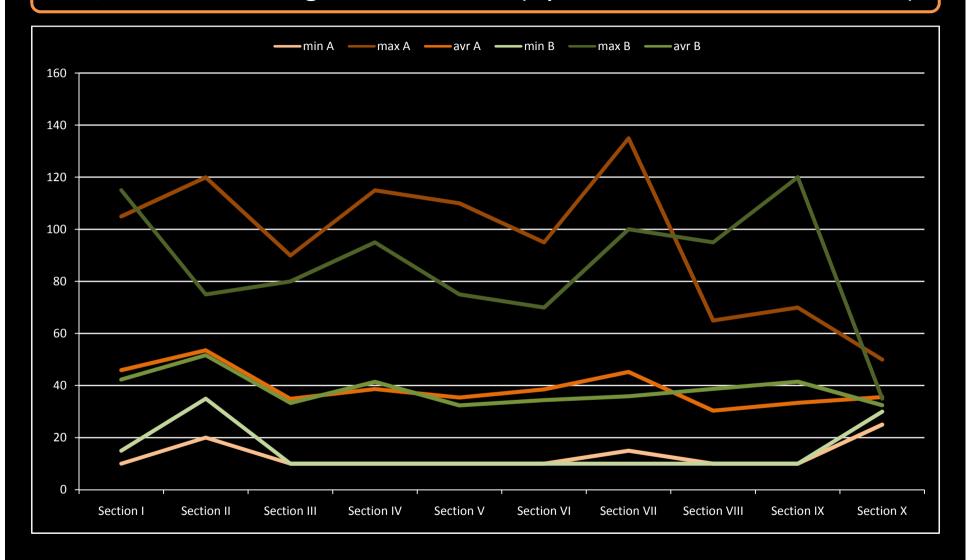
CORP | Wien 2012

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**Demonstrations on the Streets of Alexandria** 

Taha | Raslan | Bergner

# Min, Max and Average Stress Values (by duration of stress reaction)

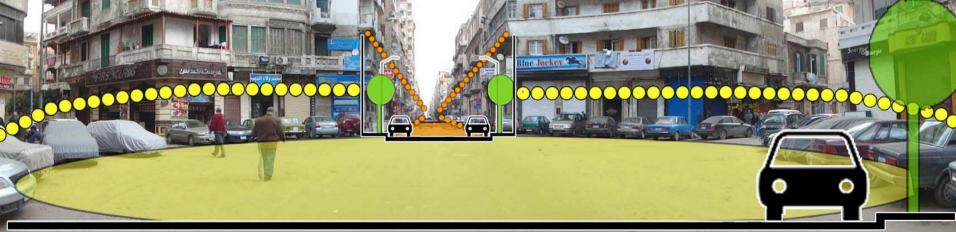


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# Findings and Analyses

# Different Obstacles that Trigger Stress Responses along the Path





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**Neuralgic points** 

#### **Effect on Demonstrators Feelings**

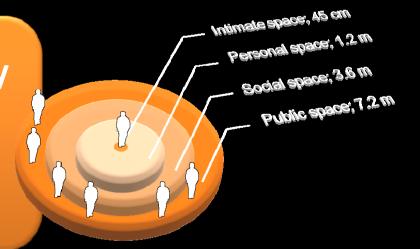
Walk, street conditions, width, people densities

Various types of obstacles blocked the path

Bad weather condition by the end

Getting enthusiastic, cheering with other demonstrators

Stress values rose proportionally with the density of the surrounding demonstrators



No definite results - limited number of testing subjects Conclusion

#### **Further Development**

Further studies are essential for producing more robust data.

A larger number of testing subjects is needed.

Concentration solely on recent findings for further research.

#### **Knowledge Processing**

Transferability of the findings to other testing locations.

Knowledge transfer to safety and security research in urban spaces.

Better comprehension of human perception in urban spaces.

#### **Outlook**

# Thank You For Listening!





