



This project is co-financed by the European Union  
and the Republic of Türkiye



**ICTürkiye2025**  
10 April, İstanbul

PRESENTER FULL NAME: Onur Varol

ORGANIZATION: Sabanci University

WORKSHOP NAME: Digital and Smart Health

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## Sabancı University



**1999-2000**

Beginning of Academic Activities

**3**

Faculty

**11**

Undergraduate Program

**4347**

Undergraduate Student

**881**

Graduate Student

**%57.84**

Undergraduate Student Scholarship Rate

**351-400**

THE 2024 Rankings

**516th**

2024 QS Rankings

**#1 in Türkiye**

THE 2024 Rankings

## RESEARCH AT A GLANCE

53% INTERNATIONAL COLLABORATION

81% PUBLICATIONS IN Q1 JOURNALS

38% PUBLICATIONS IN TOP 10% JOURNALS

39 FOR DIFFERENT TECHNOLOGIES

**780**

PUBLICATIONS  
**2024-2025**

**45**

GRANTED PATENT FILES  
**2024-2025**

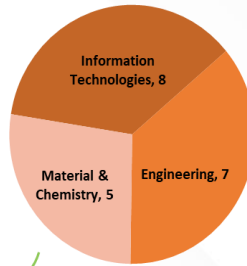
**₺1.8B**

ACTIVE PROJECT BUDGET

**20**

ACTIVE INOVENT PORTFOLIO COMPANIES

246 PROJECTS



### SABANCI UNIVERSITY CENTERS ( Engineering)

**VERİM** | CENTER OF EXCELLENCE IN DATA ANALYTICS  
SABANCI UNIVERSITY

**SU|NUM** | SABANCI UNIVERSITY NANOTECHNOLOGY RESEARCH AND APPLICATION CENTER

**SU|IMC** | SABANCI UNIVERSITY INTEGRATED MANUFACTURING TECHNOLOGIES RESEARCH AND APPLICATION CENTER

CENTER OF EXCELLENCE FOR FUNCTIONAL SURFACES AND INTERFACES (EFSUN)

**VERİM**

CENTER OF EXCELLENCE  
IN DATA ANALYTICS  
SABANCI UNIVERSITY

The establishment of VERİM aims to address both commercial and scientific needs in the field of data science through an interdisciplinary approach and to conduct scientific research that can make significant contributions in the research domain.

<https://verim.sabanciuniv.edu>



Assoc. Prof. Kamer Kaya (Coordinator)  
Assoc. Prof. Erchan Aptoula  
Assoc. Prof. Öznur Taştan  
Asst. Prof. Onur Varol  
Prof. Berrin Yanıkoğlu  
Prof. Selim Balcisoy



Computer Vision  
Cloud Computing  
Machine Learning  
Natural Language Processing



**Computational Social Sciences**  
**Network Science**  
**Machine Learning & NLP**



**Misinformation &  
Manipulation**



**Science of  
Science**



**Detection of  
Social bots**



**Mental health &  
Well-being**



<https://varollab.com>

## VRL Lab's On Going Projects



**CON-NET: Integrating CONTENT and NETWORK structure for detecting, understanding, and mitigating online misbehaviour (PI)**

Funded by EU CHIST-ERA program (2023-2026)

<https://www.con-net-project.com>



**Developing systems for coordination and automated behavior detection on online social networks (PI)**

Funded by TÜBİTAK 2247-D Young Leader Researchers program (2022-2025)

<https://secim2023.biz>



**Network Analysis of Global Diplomatic Interactions through Bureaucrats, Time, and Space (Advisor)**

Funded by TÜBİTAK 3501 (2024-2025)

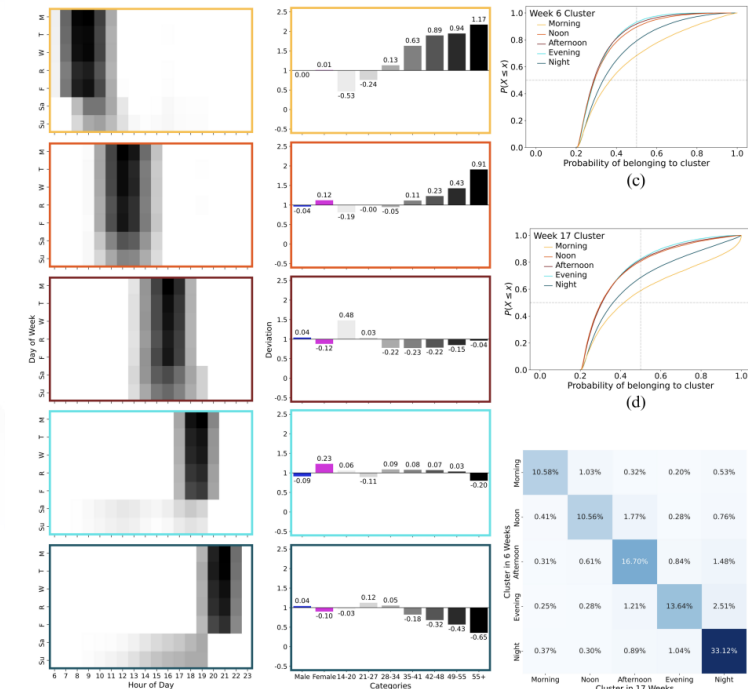
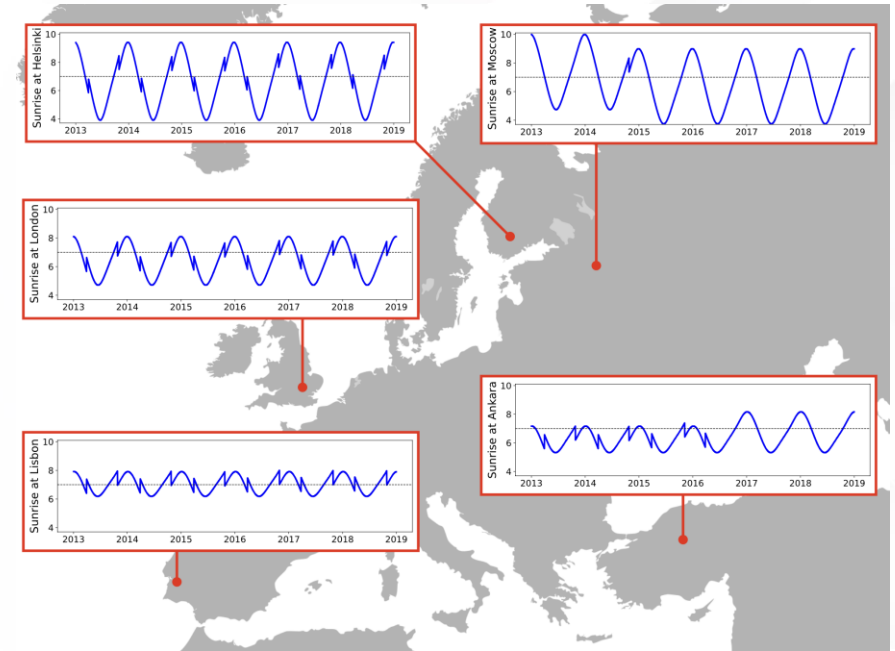
<https://globaldiplomacy.net>

## VRL Lab's Research on Digital and Smart Health

**Causal analysis of daylight saving time and quantifying its impact on wellbeing**

Funded by TÜBİTAK 1002 program (2021-2022)

**Habit Formation Insights From a Comprehensive Fitness Study**  
Industry collaboration project (2024 - ) with Türkiye's largest GYM company that has **200k active users** and **1M+ monthly attendees**.



## Project Idea: Behavioral Analytics using Computational Social Science Approaches

### Call Topics:

- HORIZON-HLTH-2025-01-STAYHLTH-01: Improving the quality of life of persons with intellectual disabilities and their families
- HORIZON-HLTH-2025-01-DISEASE-02: Advancing innovative interventions for mental, behavioural and neurodevelopmental disorders
- HORIZON-HLTH-2025-01-CARE-01: End user-driven application of Generative Artificial Intelligence models in healthcare (GenAI4EU)

### Deadline Dates: 18 September 2025

- ☐ Our team can offer expertise in **behavioural analytics**
- ☐ We develop **Machine Learning, Natural Language Processing, and Computer Vision** tools
- ☐ Our collaboration network can help accessing gym usage data



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