



Kadir Has University

2019 & 2020

SDG 9 – INDUSTRY, INNOVATION AND
INFRASTRUCTURE

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Cybersecurity & Critical Infrastructure Protection Research And Application Center Activities

Infrastructure investment and innovation are critical drivers of economic growth and development. The development of information and communication technologies also plays an important role in this framework. Technological progress, creating new business opportunities, developing innovation and entrepreneurship and eliminating digital inequality stand out as important tools for achieving sustainable development. In this context, "Cyber Security" comes to the fore as a fundamental area within information and communication technologies. By 2025, the global cybersecurity is expected to reach a market size of \$ 22.2 million. Furthermore, this steadily growing market brings with the need for a well- equipped workforce. In addition, strengthening the entrepreneurship in this field is also a driving force in terms of achieving sustainable development goals.

Our research center aims to give support for offering new business opportunities and develop innovative research projects by meeting the needs of qualified experts through cyber security trainings. Activities organized within this framework are listed below:

- (Innovative Research Project)- WARNING: A Defense-in-depth Cyber Intelligence Platform to
- Defend against Emerging Cyber Attacks, Qatar-Turkey Bilateral Cooperation Programme, 2017-2020
- (Innovative Research Project)- Artificial Intelligence-Based Products and Services in Real Estate Sector, TÜBİTAK University-Industry Cooperation, 2020-...
- (Innovative Research Project)- New technologies and Big Data Analysis, Development of Industry 4.0 Applications in Production Processes, TÜBİTAK University-Industry Cooperation, 2020-...
- (Symposium)- Cyber Talks: Career Planning and Industrial Depth in Cyber Security Meeting, 2019, Kadir Has University
- (Symposium)- Cyber Talks: Cyber Threats and Future Crimes Meeting, 2019, Kadir Has University
- (International Academic Conference)- 6. International Management Information Systems Conference (IMISC2019) - Connectivity and Cybersecurity, 2019, Kadir Has University
- (International Academic Conference)- Use Case Study: Data Science Application for Microsoft Malware Prediction Competition on Kaggle Research Presentation, 2019, Van Yüzüncü Yıl University
- (International Conference)- International Conference on Nuclear Security: Nuclear Plant Safety Research Presentation, 2020, Vienna, within the framework of International Conference on Nuclear Security: Sustaining and Strengthening Efforts (ICONS 2020)
- (International Competition))- Fifth Prize in the "Malware Prediction" Competition Organized by Microsoft in Kaggle, 2019

- (Article)- The article titled “Random CapsNet Forest Model for Imbalanced Malware Type Classification Task” prepared by Center researchers within the scope of the WARNING project is pending peer assessment in Computers & Security Journal (still pending). You can access the preprint version of the article from the given link: <https://arxiv.org/abs/1912.10836>

Energy and Sustainable Development Research and Application Center Activities

Relevant Publications

- Yucekaya, A. “An Analysis of Industrial Change in Turkey. II: Sectoral Development and Value Adding”, Journal of Engineering Technology and Applied Sciences, 3(3), 2019, 205-222.

Projects

- **S-PARCS: Envisioning and Testing New Models of Sustainable Energy Cooperation and Services in Industrial Parks:** S-PARCS presents a sound concept for reducing energy costs and energy consumption in industrial parks, while, at the same time, increasing renewable on-site energy production.

Faculty of Business Administration Activities

Projects

- Ceyda Maden Eyiusta, Scientific Project (starting in August 2019): Factors Affecting Innovation Performance of SMEs in Turkey: Empowering Leadership Behaviors and Human Resources Management Practices to Increase Innovation