

TETAM PhD Seminars – 16.11.2018, 10:00-11:35
TETAM Roof Conference Hall

Title: Towards Secure and Trusted Software Defined Networks
Ömer Zekvan Yılmaz

Abstract: Software Defined Networks (SDN) need new perspectives for security solutions due to its unique architecture with central intelligence and control. We present a literature survey on security and trust management strategies in SDN and analyze which aspects of the field they cover. Our main contributions are the following: (i) Classify the relation types in SDN architecture and explain their characteristics that should be considered in the design of security solutions. (ii) Threat Modelling of SDN such that threats are systematically extracted from network model. (ii) Classifying trust management studies in SDN context in terms of the security principles and trust properties they cover. As a result we aim to clarify the unresolved research topics in security and trust management in SDN and encourage further studies.

Bio: Ömer Zekvan Yılmaz got his BSc. and MSc. degrees from Sabancı University Computer Science and Engineering in 2006 and 2009, respectively. Later, he worked at TÜBİTAK in Software Defined Radio project as a researcher. Since 2017, he is pursuing his PhD studies at Boğaziçi University. His research interests include Security and Virtualization in Software Defined Networks.

Title: An Overview of Privacy in Online Social Networks
Gönül Aycı

Abstract: Privacy is a significant issue for an online social network. Social network users want to preserve their privacy. In this seminar, I will give an introductory talk on privacy in online social networks by discussing "Privacy Wizards for Social Networking Sites" by Lujun Fang and Kristen LeFevre in detail. In this paper, they propose a template for the design of a social networking privacy wizard. Their goal is to describe a user's personal privacy preferences.

Bio: Gönül Aycı is a Ph.D. student in the Computer Engineering department at Boğaziçi University under the supervision of Prof. Dr. Pınar Yolum. She received her M.S. in Computer Science from Özyeğin University and a B.S. in Mathematics from Marmara University. Before joining Bogazici University, she was a research assistant in the department of CS at Özyeğin University. Her master thesis subject was Fusion of Subjective Opinions through Behavior Estimation. Her current research interest includes Multiagent Systems, privacy, and trust in online social networks.

Title: Aspect Based Sentiment Analysis
Ali Erkan

Abstract: Aspect Category Detection is Identification of the entity E and attribute A pairs towards which an opinion is expressed in a given sentence and it is a part of Aspect Based Sentiment Analysis (ABSA) systems which receive as input a set of texts (e.g., product reviews or messages from social media) discussing a particular entity (e.g., a new model of a mobile phone). The systems attempt to detect the main (e.g., the most frequently discussed) aspects (features) of the entity (e.g., 'battery', 'screen') and to estimate the average sentiment of the texts per aspect (e.g., how positive or negative the opinions are on average for each aspect).

Bio: Ali Erkan is a Ph.D. candidate in Computer Engineering of Boğaziçi University. He holds M.Sc in Software Engineering from Boğaziçi University and M.Sc. and B.Sc. in Industrial Engineering from Bilkent University. His Ph.D. studies focus on the natural language processing, machine learning, sentiment analysis. He has several years of experience as a software engineer in different companies.