



HACETTEPE ÜNİVERSİTESİ MATEMATİK BÖLÜMÜ

GENEL SEMİNERİ

Tarih (Date): 13.11.2019, Çarşamba (Wednesday)

Saat (Time): 15:00

Yer (Place): Yaşar Ataman Seminer Salonu

Konuşmacı (Speaker):

Dr. Öğr. Üyesi Ahmet Çevik, Jandarma ve Sahil Güvenlik Akademisi

Başlık (Title):

Model theoretic properties of committed graphs and their palindromic characterisation

Özet (Abstract):

We bring into attention the interplay between basic model theory of committed (1-regular) graphs and their formal language characterisation using palindromes. We show that the theory of committed graphs is incomplete, whereas the theory of infinite committed graphs is complete. We observe that theories of finite and infinite committed graphs are both decidable. We note that the former is finitely axiomatisable, while the latter is not. Finally, we give a characterisation of committed graphs based on finite and infinite palindrome strings.