

UNIVERSITY OF TARTU  
Institute of Computer Science  
Software Engineering Curriculum

Ramazan Suleymanli

**Ulike - Tell Me which Videos You Like, and I will Tell You  
with whom You Match**

**Master's Thesis (30 ECTS)**

Supervisor(s): Rajesh Sharma, Ph.D

## **Ulike - Tell Me which Videos You Like I will Tell You with whom You Match**

### **Abstract:**

In recent years, matchmaking applications have seen an enormous rise in popularity. In order to pair people, these applications use geolocation, users' online activity, preferences and interests. Most of these applications that match people based on interests use questionnaires to extract user data (interests). On the other hand, specific interest (music) based matchmaking applications use users' data on music platforms to extract their interests. In this thesis, we present Ulike, a matchmaking application which explores individuals' interests based on videos they like. We describe the design and implementation of Ulike. The application differs from existing matchmaking applications in extensively exploiting the video-based homophily.

**Keywords:** interest-based matchmaking, Locality-Sensitive Hashing, Spring Boot, Flutter.

**CERCS:** P170 Computer science, numerical analysis, systems, control

## **Ulike - Ütle mulle, millised videod sulle meeldivad, ma ütlen sulle, kellega sa sobid**

### **Lühikokkuvõte:**

Viimastel aastatel on kosjasobitamiskendused tohutult kasvanud. Inimeste sobitamiseks kasutavad need rakendused geograafilist asukohta, kasutajate veebitegevust, eelistusi ja huvisid. Enamik neist rakendustest, mis vastavad inimestele huvide alusel, kasutavad kasutajaandmete (huvide) hankimiseks küsimustikke. Teisest küljest on olemas spetsiifilised huvide (muusika)põhised vastendusrakendused, mis kasutavad kasutajate andmeid muusikaplatvormidel nende huvide leidmiseks. Selles lõputöös esitleme matširakendust Ulike, mis uurib inimeste huvisid neile meeldivate videote põhjal. Kirjeldame Ulike disaini ja teostust. Rakendus erineb olemasolevatest kosjasobitusrakendustest selle poolest, et kasutab videopõhist homofiiliat laialdaselt.

**Võtmesõnad:** huvipõhine kosjasobitamine, Locality-Sensitive Hashing, Spring Boot, Flutter.

**CERCS:** P170 Arvutiteadus, arvutusmeetodid, süsteemid, juhtimine

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*Ramazan Suleymanli*  
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