

Fakultet tehničkih nauka, DRA, Novi Sad

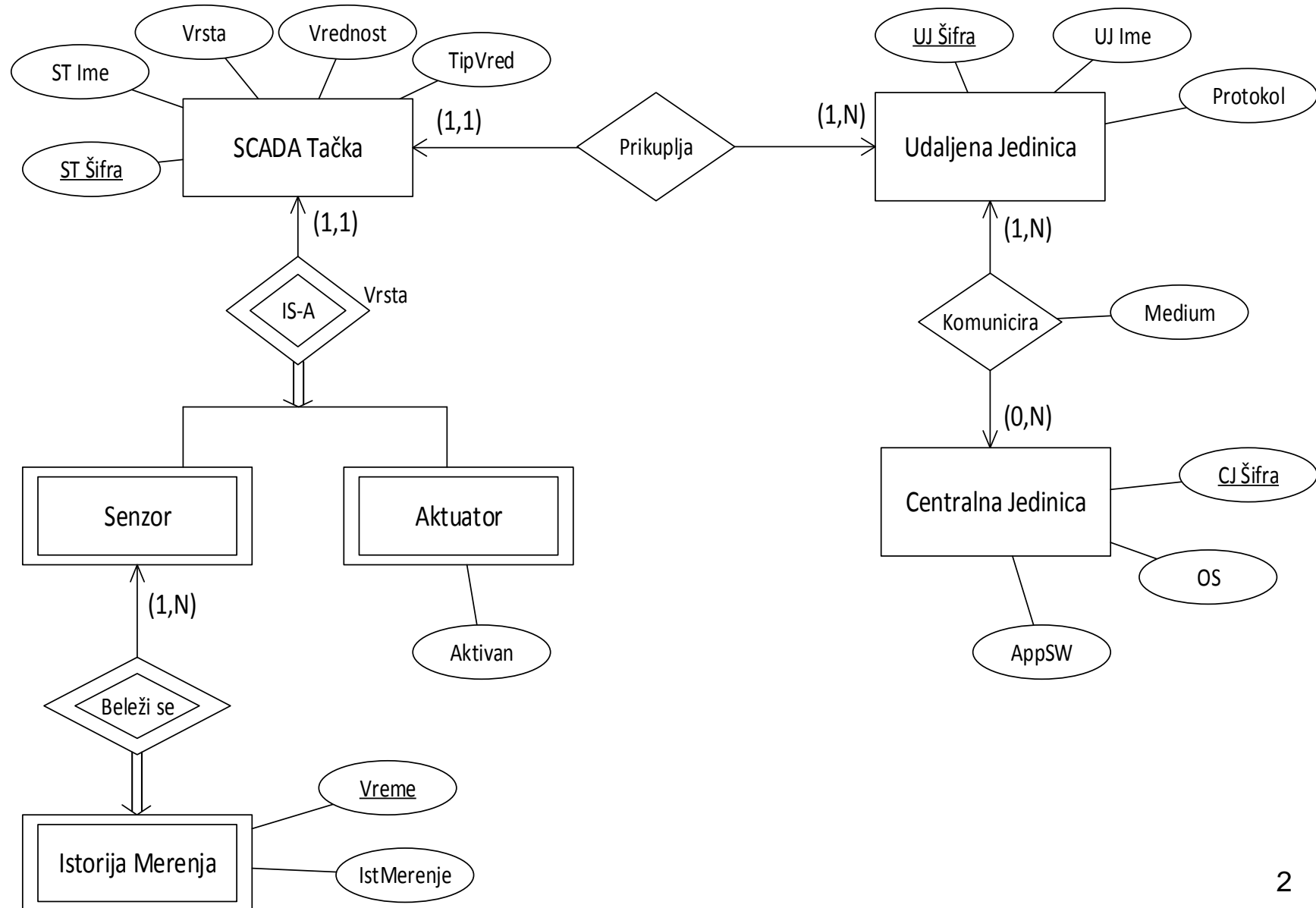
Predmet:

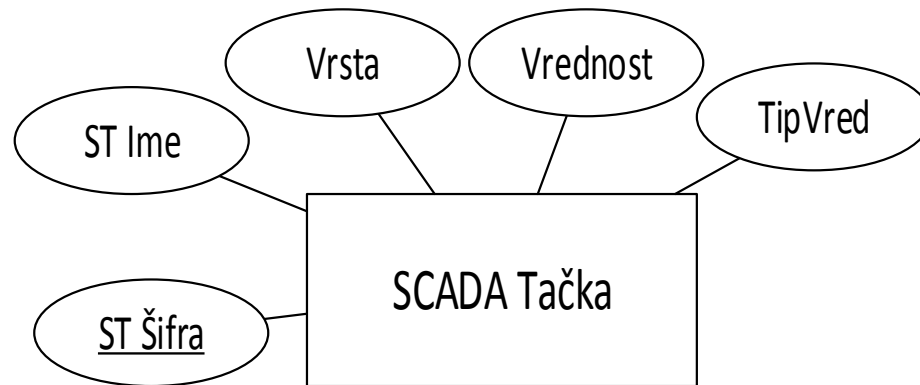
Struktura i organizacija baza podataka

**Prevođenje ER modela u relacioni
model**

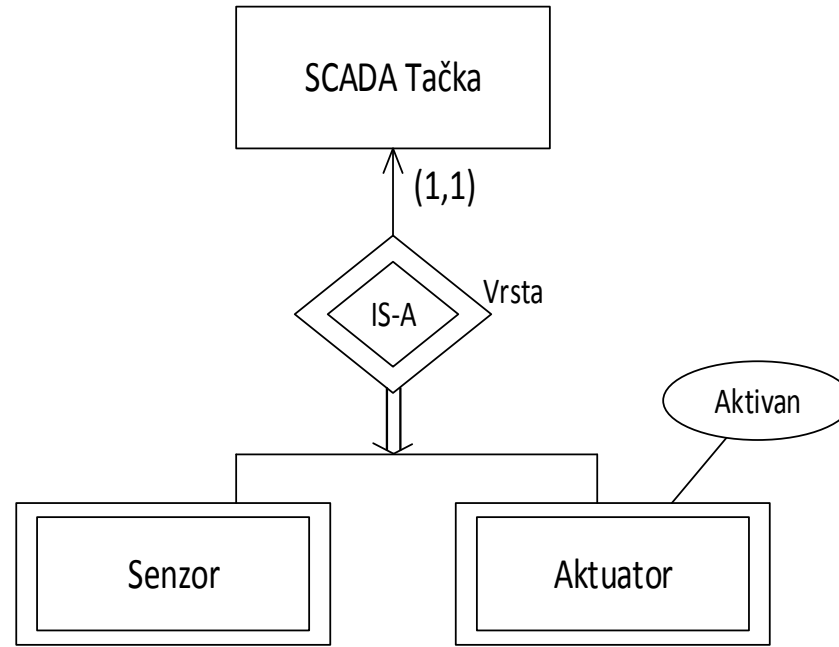
Dr Slavica Kordić,
Vladimir Dimitrieski,
Nikola Obrenović

Primer prevodenja





SCADATacka({STSifra, STIme, Vrsta, Vrednost, TipVred},
{STSifra})



$\text{Sensor}(\{\text{STSifra}\}, \{\text{STSifra}\})$

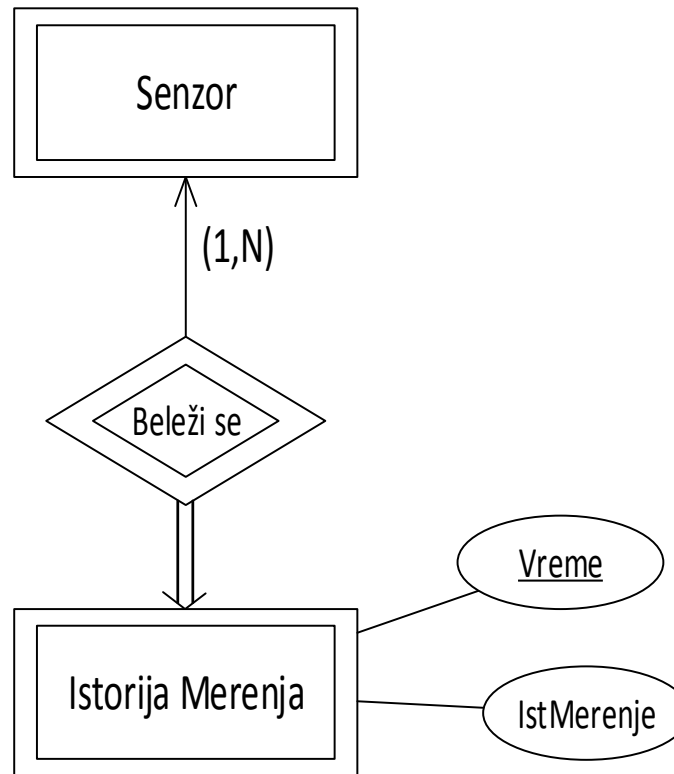
$\text{Aktuator}(\{\text{STSifra}, \text{Aktivan}\}, \{\text{STSifra}\})$

$\text{Sensor}[\text{STSifra}] \subseteq \text{SCADATacka}[\text{STSifra}]$

$\text{Aktuator}[\text{STSifra}] \subseteq \text{SCADATacka}[\text{STSifra}]$

$\text{SCADATacka}[\text{STSifra}] \subseteq \text{Sensor}[\text{STSifra}] \cup \text{Aktuator}[\text{STSifra}]$

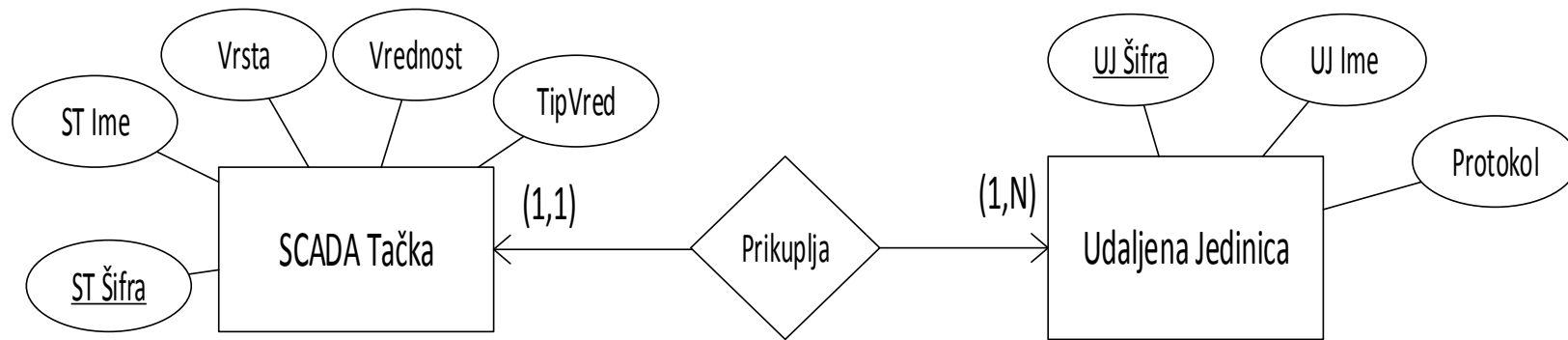
$\text{Sensor}[\text{STSifra}] \cap \text{Aktuator}[\text{STSifra}] = \emptyset$



IstorijaMerenja({STSifra, Vreme, IstMerenje},
 {STSifra+Vreme})

IstorijaMerenja[STSifra] \subseteq Senzor[STSifra]

Senzor[STSifra] \subseteq IstorijaMerenja[STSifra]

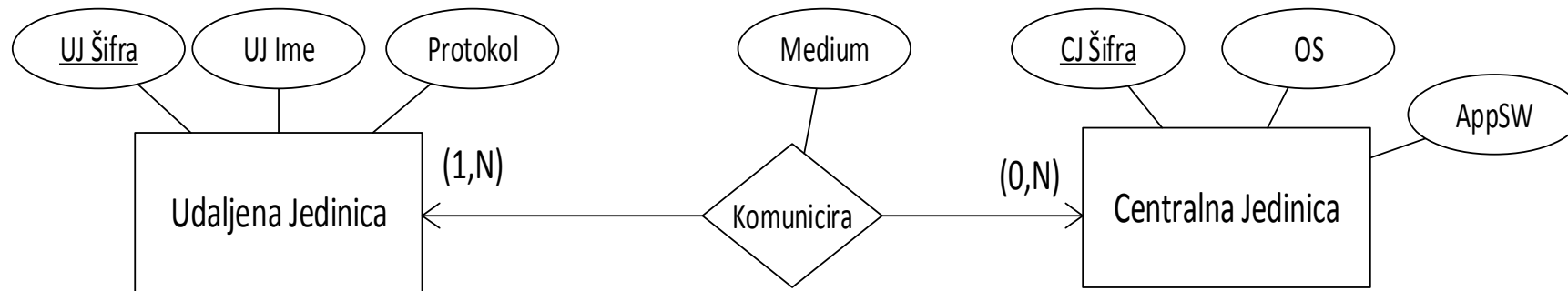


UdaljenaJedinica({UJSifra, UJIme,Protokol}, {UJSifra})
 SCADATacka({STSifra, ST_Ime, Vrsta, Vrednost, TipVred,
UJSifra}, {STSifra})

$\text{Null}(\text{SCADATacka}, \text{UJSifra}) = \perp$

$\text{SCADATacka}[\text{UJSifra}] \subseteq \text{UdaljenaJedinica}[\text{UJSifra}]$

$\text{UdaljenaJedinica}[\text{UJSifra}] \subseteq \text{SCADATacka}[\text{UJSifra}]$



CentralnaJedinica({CJSifra, OS, AppSW}, {CJSifra})

Komunicira({UJSifra, CJSifra, Medium}, {UJSifra+CJSifra})

Komunicira[UJSifra] \subseteq UdaljenaJedinica[UJSifra]

UdaljenaJedinica[UJSifra] \subseteq Komunicira[UJSifra]

Komunicira[CJSifra] \subseteq CentralnaJedinica[CJSifra]