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#### Supplement of

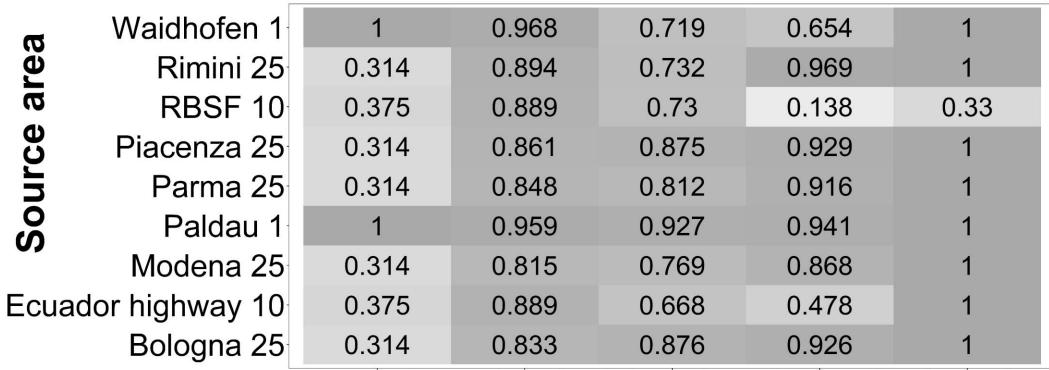
# Transfer learning for landslide susceptibility modeling using domain adaptation and case-based reasoning

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# Target area: Burgenland 1



**Similarity** 

1.0 0.5

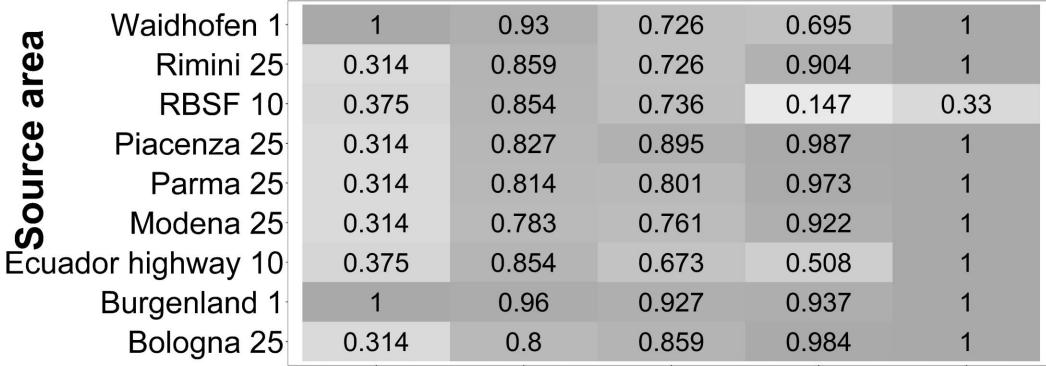
0.0

Resolution Standard deviation of slope Geological unit Total relief Mean slope

### **Attribute**

Figure S1: Similarity scores of different attributes for Burgenland with a 1 m x 1 m resolution. Light colours represent smaller similarities.

## Target area: Paldau 1



Similarity

1.0 0.5

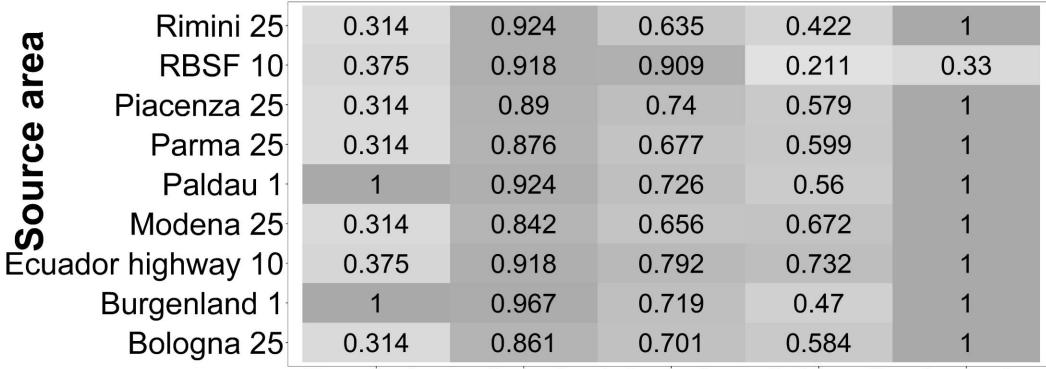
0.0

Resolution Standard deviation of slope Geological unit Total relief Mean slope

#### **Attribute**

Figure S2: Similarity scores of different attributes for Paldau with a 1 m x 1 m resolution. Light colours represent smaller similarities.

# Target area: Waidhofen 1



Similarity

1.0 0.5

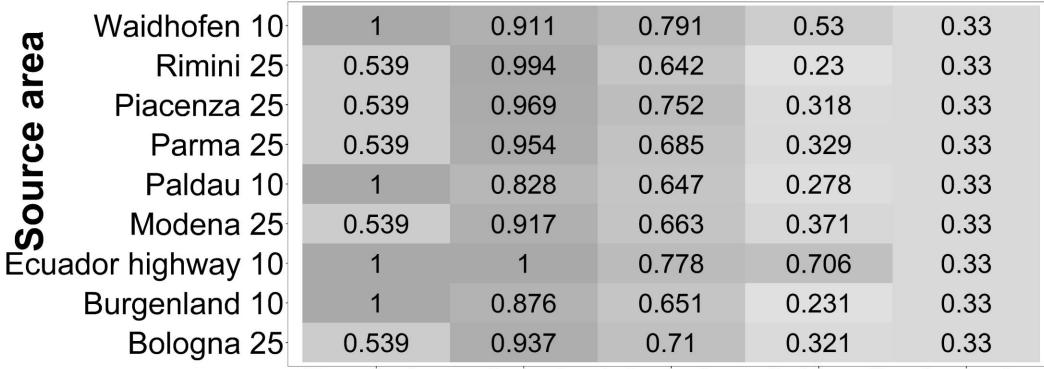
0.0

Resolution Standard deviation of slope Geological unit
Total relief Mean slope

#### **Attribute**

Figure S3: Similarity scores of different attributes for Waidhofen with a 1 m  $\times$  1 m resolution. Light colours represent smaller similarities.

### Target area: RBSF 10



Similarity

1.0

0.5

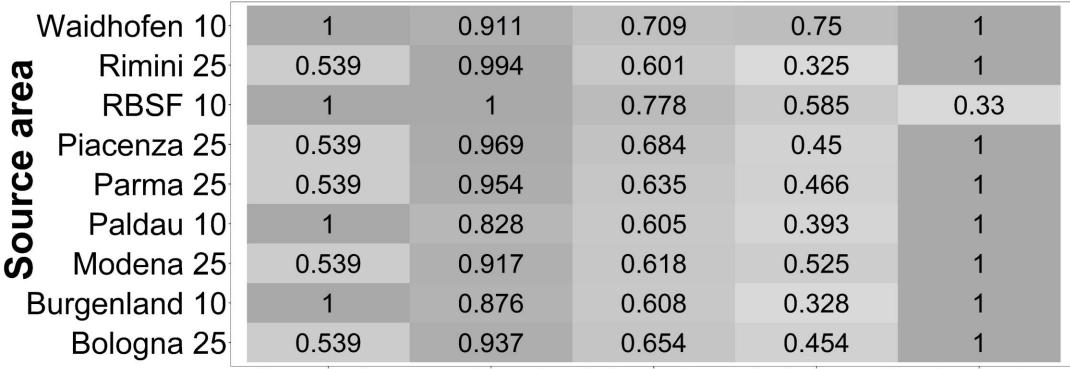
0.0

Resolution Standard deviation of slope Geological unit
Total relief Mean slope

#### **Attribute**

Figure S4: Similarity scores of different attributes for RBSF with a 10 m x 10 m resolution. Light colours represent smaller similarities.

# Target area: Ecuador highway 10



Similarity

1.0 0.5

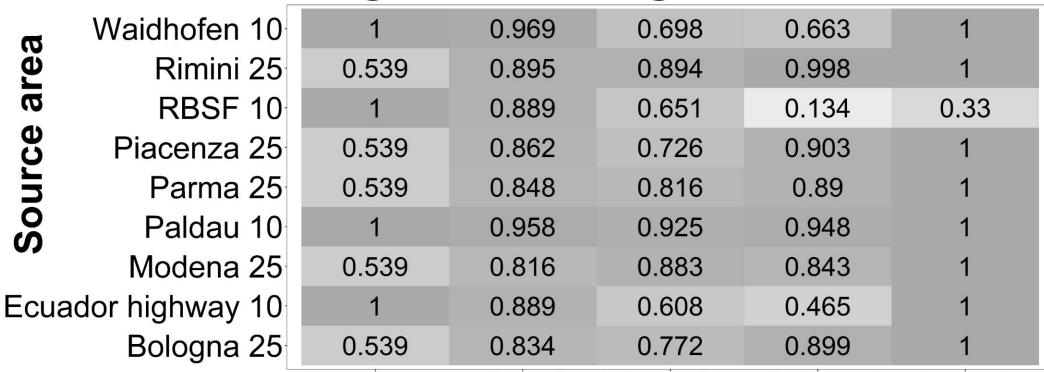
0.0

Resolution Standard deviation of slope Geological unit
Total relief Mean slope

#### **Attribute**

Figure S5: Similarity scores of different attributes for Ecuador highway with a 10 m  $\times$  10 m resolution. Light colours represent smaller similarities.

# Target area: Burgenland 10



**Similarity** 

1.0

0.5

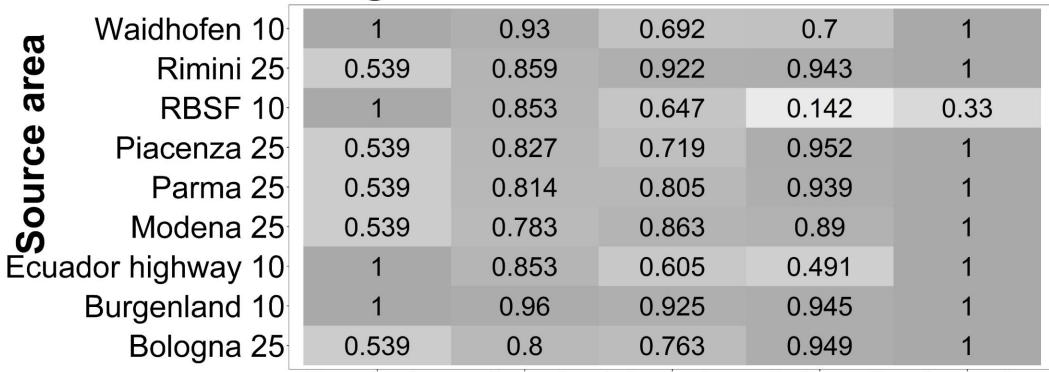
0.0

Resolution Standard deviation of slope Geological unit Total relief Mean slope

#### **Attribute**

Figure S6: Similarity scores of different attributes for Burgenland with a 10 m  $\times$  10 m resolution. Light colours represent smaller similarities.

### Target area: Paldau 10



Similarity

1.0 0.5

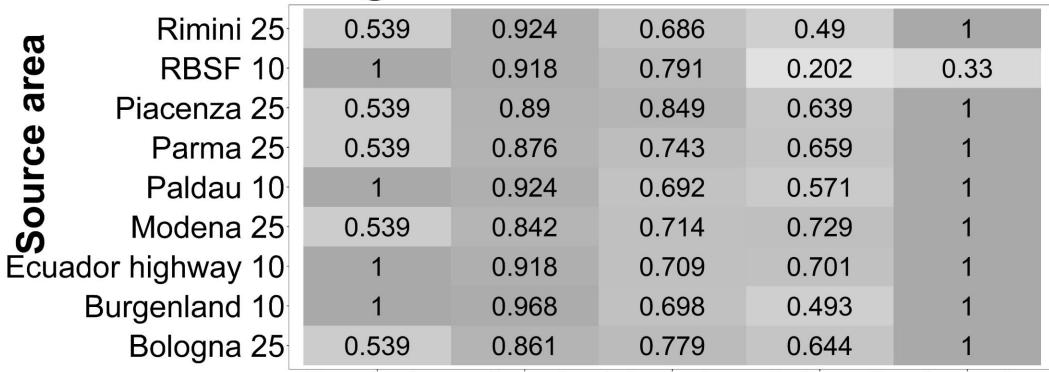
0.0

Resolution Standard deviation of slope Geological unit Total relief Mean slope

#### **Attribute**

Figure S7: Similarity scores of different attributes for Paldau with a 10 m x 10 m resolution. Light colours represent smaller similarities.

# Target area: Waidhofen 10



Similarity

1.0 0.5

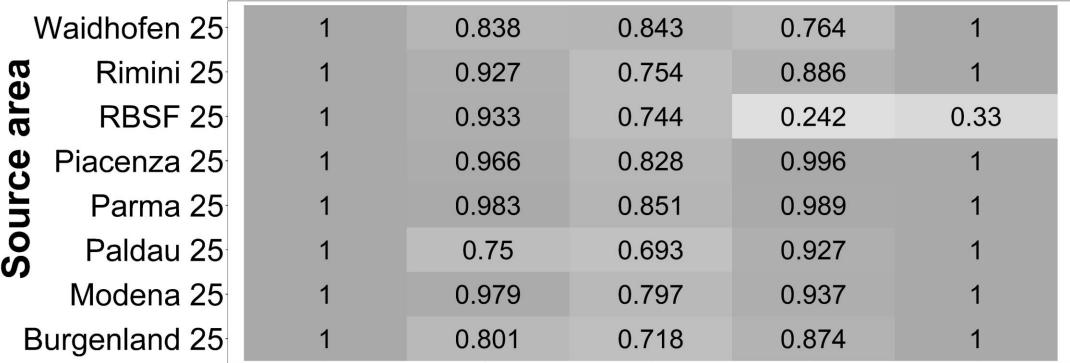
0.0

Resolution Standard deviation of slope Geological unit Total relief Mean slope

#### **Attribute**

Figure S8: Similarity scores of different attributes for Waidhofen with a 10 m x 10 m resolution. Light colours represent smaller similarities.

## Target area: Bologna 25



Similarity

1.0

0.5

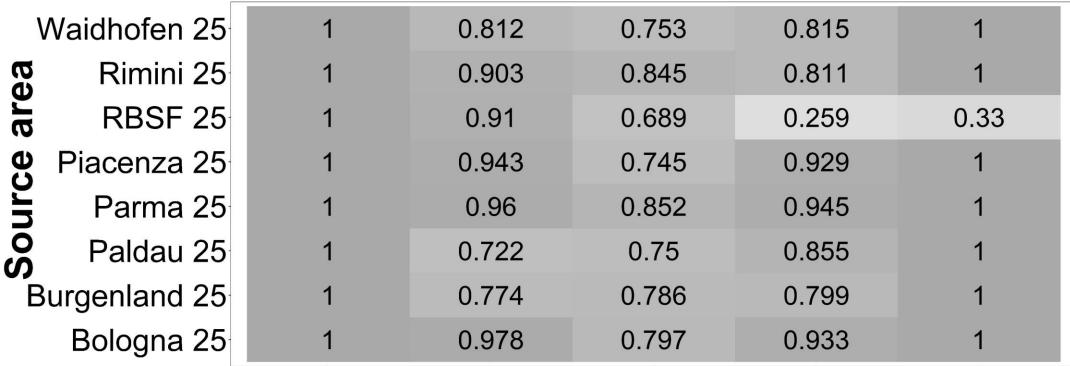
0.0

Resolution Standard deviation of slope Geological unit
Total relief Mean slope

#### **Attribute**

Figure S9: Similarity scores of different attributes for Bologna with a 25 m  $\,$  x 25 m resolution. Light colours represent smaller similarities.

### Target area: Modena 25



Similarity

1.0 0.5

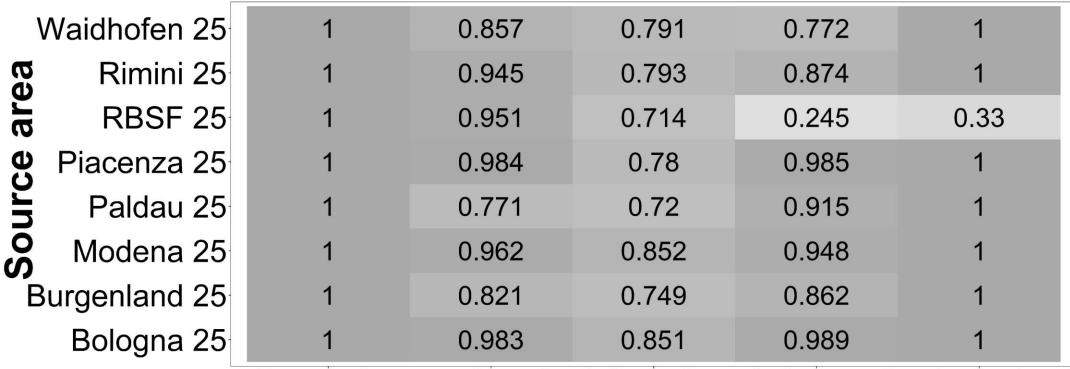
0.0

Resolution Standard deviation of slope Geological unit
Total relief Mean slope

#### **Attribute**

Figure S10: Similarity scores of different attributes for Modena with a 25 m  $\times$  25 m resolution. Light colours represent smaller similarities.

### **Target area: Parma 25**



Similarity

1.0 0.5

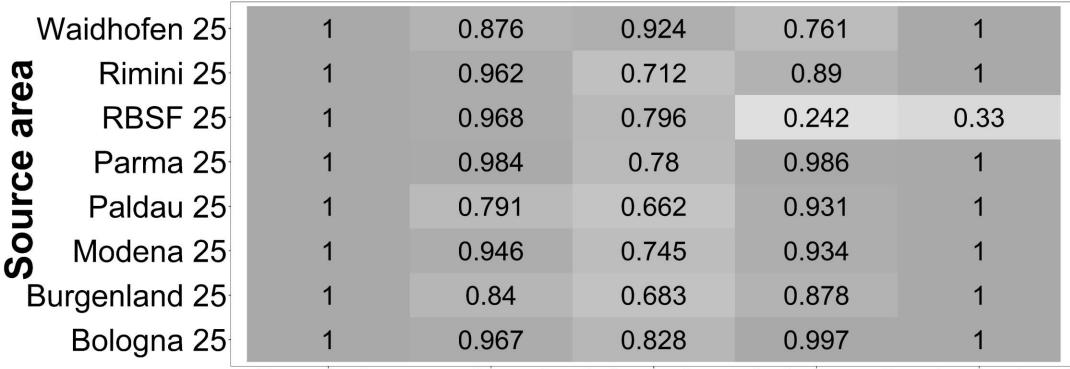
0.0

Resolution Standard deviation of slope Geological unit
Total relief Mean slope

#### **Attribute**

Figure S11: Similarity scores of different attributes for Parma with a 25 m x 25 m resolution. Light colours represent smaller similarities.

# Target area: Piacenza 25



Similarity

1.0 0.5

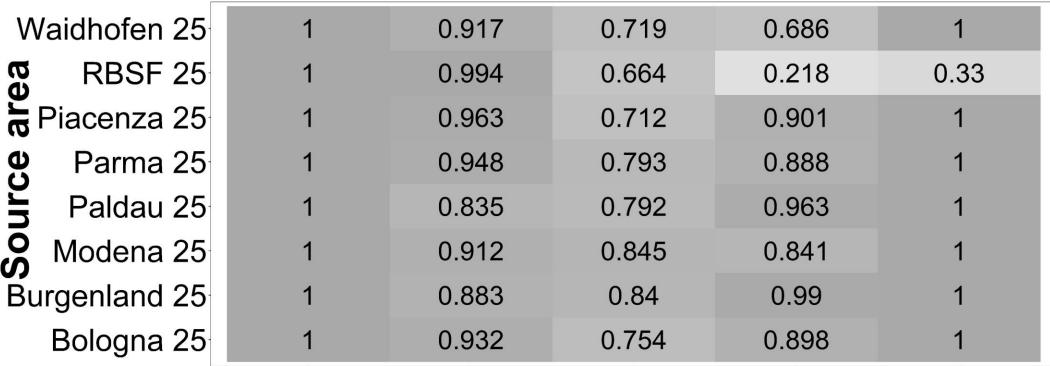
0.0

Resolution Standard deviation of slope Geological unit Total relief Mean slope

#### **Attribute**

Figure S12: Similarity scores of different attributes for Piacenza with a 25 m  $\times$  25 m resolution. Light colours represent smaller similarities.

### Target area: Rimini 25



Similarity

1.0 0.5

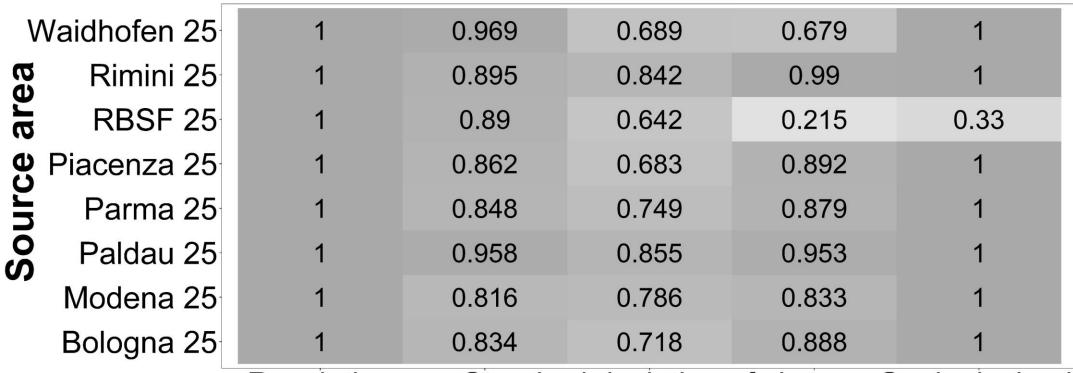
0.0

Resolution Standard deviation of slope Geological unit
Total relief Mean slope

#### **Attribute**

Figure S13: Similarity scores of different attributes for Rimini with a 25 m  $\times$  25 m resolution. Light colours represent smaller similarities.

# Target area: Burgenland 25



**Similarity** 

1.0 0.5

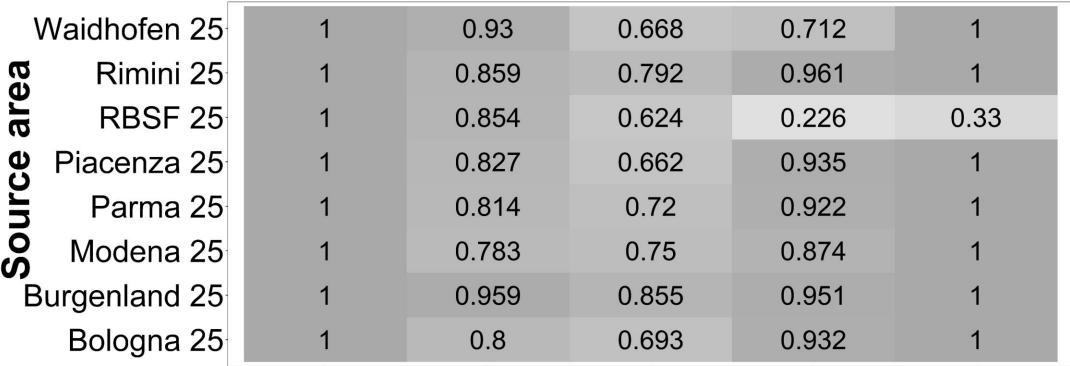
0.0

Resolution Standard deviation of slope Geological unit Total relief Mean slope

#### **Attribute**

Figure S14: Similarity scores of different attributes for Burgenland with a 25 m x 25 m resolution. Light colours represent smaller similarities. 14

### Target area: Paldau 25



Similarity

1.0 0.5

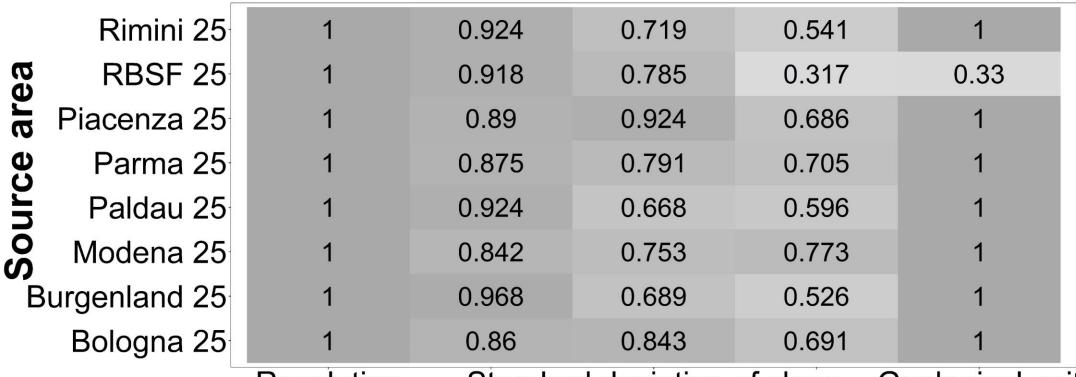
0.0

Resolution Standard deviation of slope Geological unit
Total relief Mean slope

#### **Attribute**

Figure S15: Similarity scores of different attributes for Paldau with a 25 m x 25 m resolution. Light colours represent smaller similarities.

# Target area: Waidhofen 25



Similarity

1.0 0.5

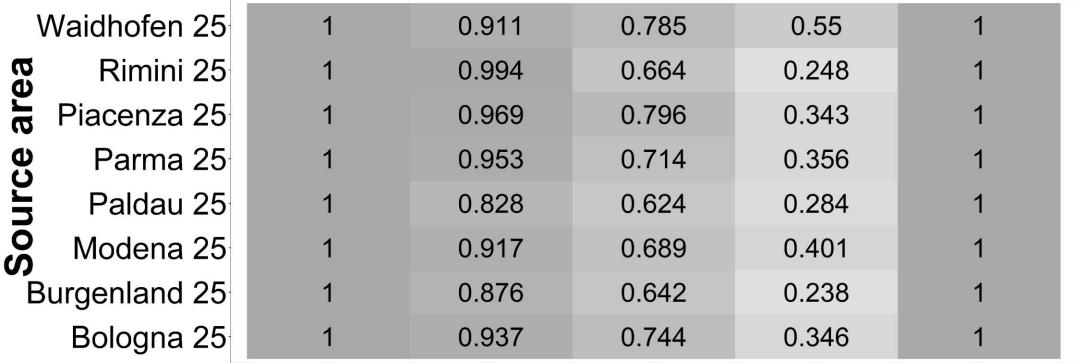
0.0

Resolution Standard deviation of slope Geological unit
Total relief Mean slope

#### **Attribute**

Figure S16: Similarity scores of different attributes for Waidhofen with a 25 m  $\times$  25 m resolution. Light colours represent smaller similarities.

### **Target area: RBSF 25**



Similarity

1.0 0.5

0.0

Resolution Standard deviation of slope Geological unit
Total relief Mean slope

#### **Attribute**

Figure S17: Similarity scores of different attributes for RBSF with a 25 m  $\,$  x 25 m resolution. Light colours represent smaller similarities.