Biking:

• Speed: High average speed (> 15 km/h).

• Elevation Change: Moderate elevation gain/loss.

• Road Network: High percentage on roads or bike paths.

• Path Length: Typically long distances (> 20 km).

Jogging:

• Speed: Moderate average speed (5-15 km/h).

• Elevation Change: Low to moderate elevation gain/loss.

• Road Network: High percentage on pedestrian paths or running tracks.

• Stop Frequency: Low stop frequency.

• Path Length: Moderate distances (5-20 km).

Hiking:

• Speed: Low average speed (2-5 km/h).

• Elevation Change: High elevation gain/loss.

• Road Network: High percentage on trails or off-road.

• Stop Frequency: Moderate stop frequency.

• Path Length: Variable, but often longer than jogging and shorter than biking (5-15 km).

Skitouring:

• Speed: Variable speed, often lower on uphill segments.

• Elevation Change: Very high elevation gain/loss.

• Road Network: Mostly off-road or mountain trails.

• Stop Frequency: High stop frequency (due to terrain and rest breaks).

• Path Length: Typically long distances, but can vary greatly (10-30 km).

**Speed:**

If Average Speed is less than 5km/h 1 Point for Hiking

If Average Speed is between 5km/h – 15 km/h 1 Point for Jogging

If Average Speed is more than 15km/h 1 Point for Biking

If Max Speed is less than 8km/h 1 Point for Hiking

If Speed Variance is more than 20km/h 1 Point for Biking & Ski Touring

If Speed Variance is less than 20km/h 1 Point for Hiking & Jogging

***Elevation Change (difficult):***

*If Elevation Change is more than 200m 1 Point for Ski Touring & Hiking & Biking*

**Stop Frequency:**

If low stop frequency 1 Point for Jogging

If moderate stop frequency 1 Point Hiking

*If high stop frequency 1 ski touring*

**Path Length:**

If more than 20km 1 Point for biking

If 5km – 20km 1 Point for Jogging & Hiking

If 10km – 30km 1 Point for Ski Touring

**Combinations:**

Speed & Elevation Change

High average speed & moderate EC 1 Point for Biking

Moderate AS & low-moderate EC 1 Point for Jogging

Low AS & Significant EC 1 Point for Hiking

high Variance in Speed & high EC 1 Point for Ski Touring & Biking

Speed & Stop Frequency

High AS & low SF Biking

Moderate AS & low SF Jogging

Low AS & moderate SF Hiking

high Variance in Speed & moderate SF Ski Touring

Speed, Path Length & EC

High AS, long PL, moderate EC Biking

Moderate AS, moderate PL, low-moderate EC Jogging

Low AS, moderate PL, significant EC hiking

High variance AS, moderate-long PL, high EC ski touring

Speed & Network Similarity

High AS & high variance in speed & high similarity biking

Moderate AS & low variance in speed& High similarity Jogging

Low AS & low similarity Hiking

High variance AS, low similarity Ski Touring

EC & SF

Moderate EC & low SF Biking

Low – moderate EC & low SF Jogging

High EC & moderate SF Hiking & Ski Touring

**Auswertung Beispiel:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Hiking | Jogging | Ski Touring | Biking |
| max possible score | 5 | 10 | 8 | 10 |
| Score | 4 | 3 | 7 | 5 |
| Ration | 80% | 30% | 87.5 % | 50% |

Im besten Fall: grosse Unterschiede in Ratio = klare Resultate

Wichtig: müssen auch ausschliessende Faktoren haben (Bsp: wenn average speed mehr wie 15km/h kann es nicht Hiking sein. – ignore hiking

Noch mehr Ausschluss kriterien nötig!

Notizen für Bericht:

* Schwierig mit Mountain Bike
* Schwierig falls öv genommen
* Papers zu treshold
* Elevation change: absolute
* 200m segments
* Missing data -> linear interpolation? 2sek