

Blended learning

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Matjaž Lobnik / producer
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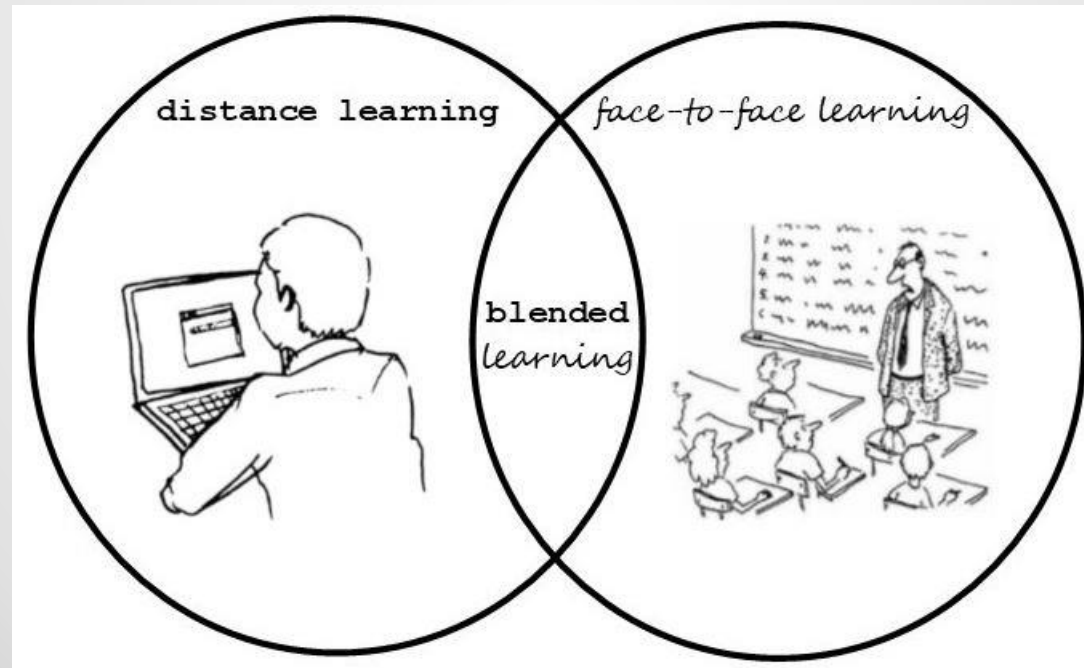
United Nations
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PIKTORAMA

Blended learning /definiton/

Blended learning is an education program (formal or non-formal) that combines online digital media with traditional classroom methods



International interdisciplinary summer school

INTERNATIONAL SUMMER SCHOOL

ENVIRONMENTAL PROTECTION

Ljubljana, June 27th–July 17th, 2016



Ljubljana, European Green Capital 2016



INTERNATIONAL SUMMER SCHOOL

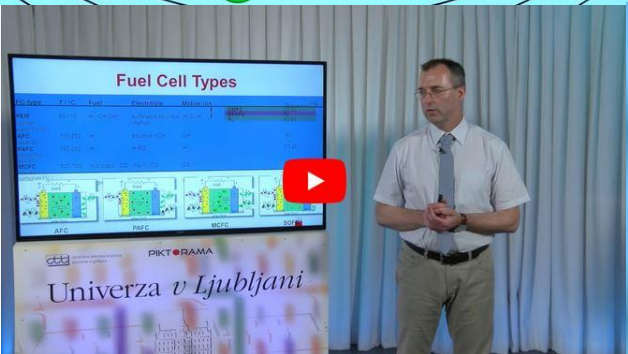
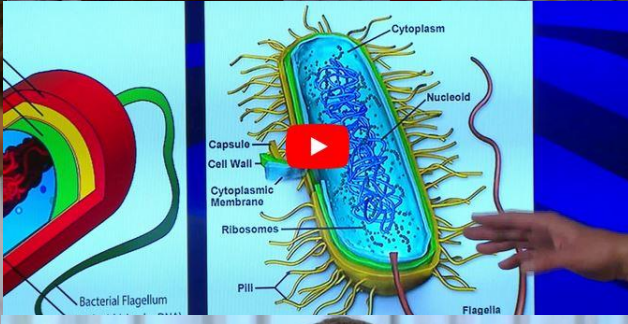
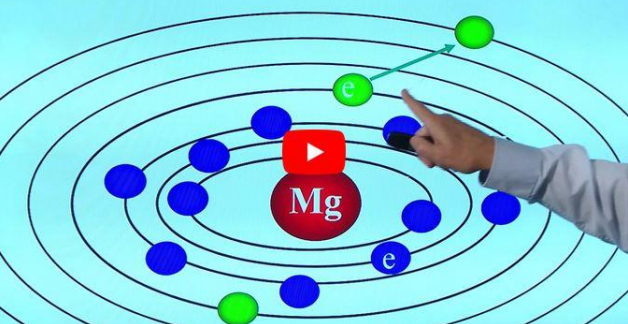
NATURAL DISASTERS

Ljubljana, Slovenia

May 21st–June 10th, 2017



Catastrophic flood in Bosnia in 2014 (archive UL FGG)





SUMMER SCHOOL IN LJUBLJANA, SLOVENIA

NATURAL DISASTERS

MATJAZ LOBNIK

course presentation / online course 2017 / Lidar DEM-based terrain roughness analysis for landslide characterization

Lidar DEM-based terrain roughness analysis for landslide characterization
Timotej Verbovšek

Published: 11.05.2017

Course: online course 2017

PRESENTATION

TEST YOUR KNOWLEDGE

LECTURE READINGS

LECTURER BIO



Geological setting

Geological setting

14:18

Timotej Verbovšek



Landslides in the Vipava Valley

Landslides in the Vipava Valley

26:22

Timotej Verbovšek

Lidar DEM-based terrain roughness analysis for landslide characterization

International Summer School "Natural Disasters"
Ljubljana, 21st May – 10th June 2017

Timotej Verbovšek & Tomislav Popit

Lidar DEM-based terrain roughness analysis for landslides in the Vipava Valley, SW Slovenia

Question 7 of 10

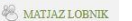
How can we compare the surface roughness method to field mapping?

- Surface roughness methods can substitute the field mapping methods.
- Surface roughness methods can aid the field mapping methods.
- Surface roughness methods can neither substitute nor aid the field mapping methods.



introduction programme course presentation lecturers calendar test

SUMMER SCHOOL IN LJUBLJANA, SLOVENIA
NATURAL DISASTERS



lecturers / Timotej Verbovšek

Readings linked to lecture:

[COMPARISON OF METHODS FOR GEOMORPHOMETRIC ANALYSIS OF SURFACE ROUGHNESS IN THE VIPAVA VALLEY](#)

Papers and references in the papers:

http://www.rmz-mg.com/letniki/rmz60/RMZ60_0197-0204.pdf

<http://dx.doi.org/10.1016/j.geomorph.2013.09.010>

<http://dx.doi.org/10.15292/geodetski-vestnik.2016.02.227-240>

<http://dx.doi.org/10.1007/s10346-017-0815-x>

Plus a short summary of the methods: <http://gis4geomorphology.com/roughness-topographic-position/>

Links

<http://www.ntf.uni-lj.si/og/timotej-verbovsek/>

<http://gis4geomorphology.com/roughness-topographic-position/>



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<http://www.ntf.uni-lj.si...>

BIBLIOGRAPHY

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- e-mail: timotej.verbovsek@ntf.uni-lj.si
- WWW: <http://www.ntf.uni-lj.si/og/timotej-verbovsek/>

Education:

- 2003: BSc, University of Ljubljana, Faculty of Natural Sciences and Engineering, Department of Geology (*Well yields in Slovenia - group of dolomite aquifers*)
- 2008: PhD, University of Ljubljana, Faculty of Natural Sciences and Engineering, Department of Geology (*Influences of transmissive structures on flow and transport in karstic and fractured aquifers*)

Academic titles:

- 2004–2008: assistant
- 2008–2013: assistant professor (docent)
- 2013–present: associate professor

Employment:

- 2003–2008: Young researcher
- 2008–present: Assistant and associate professor at University of Ljubljana, Faculty of Natural Sciences and Engineering, Department of Geology, during the postdoc project (May 2009–May 2012) employed as researcher

Research and interest fields:

- Engineering geology, GIS, Hydrogeochemistry, Karst (fractured aquifers), Fractals.

Languages spoken:

- Active: Slovenian, English, Croatian, Serbian
- Functional: Spanish, German

Pedagogical activity:

- Geology program (BSc degree, UL NTF): *GIS in geology, Engineering geology*
- Geology program (MSc degree, UL NTF): *applied Engineering geology, Computer methods in geology, Hydrogeochemistry, Geology of Karst 2*
- Geology program (PhD degree, UL NTF & UL FGG): *Fractal and selected computer methods in geology, Karstic processes and features*



SUMMER SCHOOL IN LJUBLJANA, SLOVENIA

NATURAL DISASTERS

MATJAZ LOBNIK

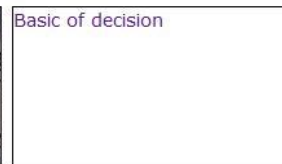
course presentation / online course 2017

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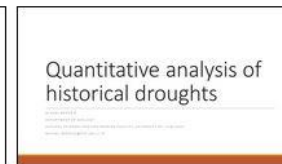
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Structures in seismic areas
Matjaž Dolšek
24.05.2017



Basic of decision
Mitja Brilly
24.05.2017 31:08



Quantitative analysis of historical droughts
Mihael Brenčič
19.05.2017 57:39



Introduction to wildfires
Simon Schnabl
18.05.2017 29:01



Hurricanes
Gabriela Kalčíková
16.05.2017 23:29



Lidar DEM
Timotej Verbovšek
11.05.2017 1:25:09



Earth Observation for Natural Disasters
Krištof Oštr
11.05.2017 51:47



Flood Risk Assessment & Management
Biswa Bhattacharya
11.05.2017 51:26



Natural disasters pattern change
Klementina Zupan
11.05.2017 29:35





SUMMER SCHOOL IN LJUBLJANA, SLOVENIA

NATURAL DISASTERS

MATJAZ LOBNIK

course presentation / face to face 2017 / An integrated methodology to develop a standard for landslide early warning systems

An integrated methodology to develop a standard for landslide early warning systems

Teuku Faisal Fathani

Published: 05.06.2017

Course: face to face 2017

PRESENTATION

TEST YOUR KNOWLEDGE

LECTURE READINGS

LECTURER BIO



An integrated methodology to develop a standard for landslide early warning systems

56:34

Teuku Faisal Fathani



Teuku Faisal Fathani: Discussion/Case studies

30:46

Teuku Faisal Fathani



Preparation for final Test

00:14:13




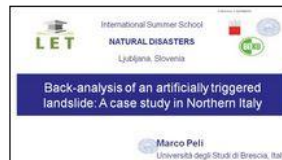

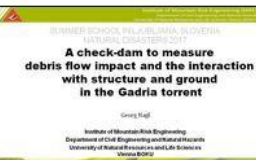



Question 5 of 10

NATECH are:

- natural disasters that can trigger technological disasters
- natural disasters that can trigger another natural disaster
- technological disasters that can trigger natural disasters
- technological disasters that can trigger another technological disaster

Submit

resentation / student workshop 2017

y: t:	 <p>The Stava mudflow - landslide, chemistry and safety Nik Rus 15.06.2017 10:02</p>	 <p>Identification of dominant process Micha Heiser 15.06.2017 16:25</p>	 <p>Indicators vulnerability assessment methods Giulia Cristofari 15.06.2017 12:36</p>
	 <p>Back-analysis of a man triggered landslide Marco Peli 15.06.2017 13:32</p>	 <p>Automatic detection of sediment-related disasters based on seismic and infrared signals Andreas Schimmel 15.06.2017 11:40</p>	 <p>A check-dam to measure debris flow impact and the interaction with structure and ground in the Gadria torrent Georg Nagl 15.06.2017 9:25</p>
	 <p>Kinematic Position monitoring system Gašper Štebe 15.06.2017 12:38</p>	 <p>Quaternary Sediments on the Hochschwab Plateau Christoph Hofmann 15.06.2017 10:07</p>	 <p>Use of earth observation data Hajar Asadian Falahieh 15.06.2017 13:53</p>

SUMMER SCHOOL IN LJUBLJANA, SLOVENIA

NATURAL DISASTERS

course presentation / student workshop 2017 / Process type identification: In torrential catchments in the eastern Alps

*Process type identification:
In torrential catchments in
the eastern Alps*
Micha Heiser

Published: 15.06.2017

Course: student workshop 2017

PRESENTATION



Abstract:

Torrential hazards are omnipresent in the alpine regions, as it frequently causes damage to infrastructures. In some cases, even people's lives are endangered. The classification of these processes takes place according to factors like sediment concentration and flow behaviour and ranges from fluvial process types, including water floods and fluvial sediment transport processes, to fluvial mass movements such as debris flows. Following the hypothesis of this study, a context exists between basic geomorphological disposition parameters and potential dominant flow process types in a steep headwater catchment.

Conclusion

- Lecturers / good video presentations, right visual tools, connect with students
- Students / prerecorded lectures, interaction with professors, gain an experience of making video presentations
- Improvements / media trainings, right visual tools, different concepts of interaction and presentations.

Thank you

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