Willkommen to SANER 2017 in Klagenfurt

Welcome to SANER 2017, the 24th IEEE International Conference on Software Analysis, Evolution, and Reengineering in Klagenfurt, Carinthia, Austria. SANER is the premier conference on the theory & practice of recovering information from existing software systems. It features the newest advances to the state of the art in software analysis, evolution, and reengineering. It also explores innovative methods for extracting the many kinds of information of interest to software developers and it examines innovative ways of using this information in system renovation and program understanding.

SANER 2017 starts on Tuesday, February 21st with the co-located International Workshop on Software Clones (IWSC) and the Workshop on Machine Learning Techniques for Software Quality Evaluation (MaLTeSQuE). The main conference starts on Wednesday and it features the keynote from Engin Kirda, nine technical research paper sessions with 34 presentations, three early research achievements (ERA) sessions with 16 presentations, an industry paper session with 6 presentations, two tool demonstration sessions with 12 tool demos, and a poster session with 15 poster presentations.

In addition to the technical program, SANER 2017 features three social events: the SANER Futsal match, the SANER reception, and the SANER banquet. They provide an excellent opportunity for all participants to have fun, to network, and to exchange ideas and solutions to advance the state of the art in SANER related research areas.

We hope that you will have a great time in Klagenfurt and enjoy the exciting program of SANER 2017.
## Overview

### Tuesday, 21st

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<th>Time</th>
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<td>09:00 - 16:00</td>
<td>IWSC (E.2.42)</td>
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<td>16:00 - 19:00</td>
<td>Futsal (USI Klagenfurt)</td>
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### Wednesday, 22nd

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<td>09:00 - 09:30</td>
<td>Opening (HS A)</td>
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<tr>
<td>09:30 - 10:30</td>
<td>Keynote by Engin Kirda (HS A)</td>
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<td>Coffee Break</td>
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<td>11:00 - 12:30</td>
<td>R1 – MSR and Open Source (HS A)</td>
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<td>12:30 - 14:00</td>
<td>Lunch (Mensa)</td>
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<td>R2 – Features and Knowledge (HS A)</td>
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<td>16:00 - 17:10</td>
<td>R3 – Apps and Energy (HS A)</td>
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<td>19:00 - 23:00</td>
<td>SANER 2017 Reception, Schleppe Eventhalle</td>
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### Thursday, 23rd

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<tr>
<td>09:00 - 10:30</td>
<td>MIP Award and Presentation (HS A)</td>
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<td>11:00 - 12:30</td>
<td>R5 – Code and Data Transformations (HS A)</td>
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<tr>
<td>12:30 - 14:00</td>
<td>Lunch (Mensa)</td>
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<td>14:00 - 15:30</td>
<td>Posters + Informal Tool Demo (HS A)</td>
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<td>15:30 - 16:00</td>
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<tr>
<td>16:00 - 17:30</td>
<td>R6 – Program Comprehension (HS A)</td>
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<td>19:00 - 23:30</td>
<td>SANER 2017 Banquet, Casino Velden</td>
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<td>11:00 - 12:30</td>
<td>R8 – Code Smells and Refactoring (HS A)</td>
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<td>12:30 - 14:00</td>
<td>Lunch (Mensa)</td>
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<td>14:00 - 15:30</td>
<td>R9 – Testing and Fault Localization (HS A)</td>
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<tr>
<td>15:30 - 16:00</td>
<td>Open Steering Committee Meeting (HS A)</td>
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<tr>
<td>16:00 - 16:30</td>
<td>Closing + SANER 2018 (HS A)</td>
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</table>
Welcome from the Chairs (09:15 - 09:30, E.2.42)
Nicholas A. Kraft, Michael Godfrey, and Hitesh Sajnani

Keynote and Q&A (9:30 - 10:30, E.2.42)
Session Chair: Nicholas A. Kraft

Session 1: Clone Detection and Applications (11:00 - 12:30, E.2.42)
Session Chair: Chanchal Roy
Detecting and Analyzing Code Clones in HDL
Kyohei Uemura, Akira Mori, Kenji Fujiwara, Eunjong Choi, and Hajimu Iida
Using Compilation/Decompilation to Enhance Clone Detection
Chaiyong Ragkhitwetsagul and Jens Krinke
Rearranging the Order of Program Statements for Code Clone Detection
Yusuke Sabi, Yoshiki Higo, and Shinji Kusumoto
Web-Service for Finding Cloned Files using b-Bit Minwise Hashing
Kaoru Ito, Takashi Ishio, and Katsuro Inoue
CodeEase: Harnessing Method Clone Structures for Reuse
Shamsa Abid, Yoshiki Higo, Salman Javed, Momna Naseem, Suleman Shahid, and Hamid Abdul Basit

Session 2: Clone Analysis (14:00 - 15:30, E.2.42)
Session Chair: Foutse Khomh
Software Clones in Scratch Projects: On the Presence of Copy-and-Paste in Computational Thinking Learning
Gregorio Robles, Jesús Moreno-León, Efthimia Aivaloglou, and Felienne Hermans
Does Cloned Code Increase Maintenance Effort?
Manishankar Mondal, Chanchal K. Roy, and Kevin Schneider
Refactoring Patterns Study in Code Clones during Software Evolution
Jaweria Kanwal, Katsuro Inoue, and Onaiza Maqbool
Evolution of Code Clone Ratios throughout Development History of Open-Source C and C++ Programs
Anfernee Goon, Yuhao Wu, Makoto Matsushita, and Katsuro Inoue
A Technique to Detect Multi-grained Code Clones
Yusuke Yuki, Yoshiki Higo, and Shinji Kusumoto

Session 3: Graph-Based Clone Detection (16:00 - 16:40, E.2.42)
Session Chair: Mike Godfrey
Enhancing Program Dependency Graph Based Clone Detection using Approximate Subgraph Matching
Kamalpriya C. M. and Paramvir Singh
Rethinking Dependence Clones
Tim Henderson and Andy Podgurski
People's Choice Award (16:40 - 17:00, E.2.42)  
Session Chairs: Mike Godfrey and Hitesh Sajnani

Moving Forward and Adjourn (17:00 - 17:30, E.2.42)  
Session Chair: Nicholas A. Kraft

MaLTeSQuE (E.2.37)

Introduction and presentation of speakers (09:00 - 09:20, E.2.37)

Session I (09:20 - 10:30, E.2.37)  
Session Chair: Francesca Arcelli Fontana

Using Source Code Metrics to Predict Change-Prone Web Services - A Case-Study on eBay Services  
Lov Kumar, Santanu Rath, and Ashish Sureka

Investigating Code Smell Co-Occurrences using Association Rule Learning: A Replicated Study  
Fabio Palomba, Rocco Oliveto and Andrea De Lucia

Using Machine Learning to Design a Flexible LOC  
Miroslaw Ochodek, Miroslaw Staron, Dominik Bargowski, Wilhelm Meding and Regina Hebig

Session II (11:00 - 12:30, E.2.37)  
Session Chair: Bartosz Walter

Machine Learning For Finding Bugs: An Initial Report  
Timothy Chappell, Cristina Cifuentes, Paddy Krishnan and Shlomo Geva

Automatic Feature Selection by Regularization to Improve Bug Prediction Accuracy  
Haidar Osman, Mohammad Ghafari and Oscar Nierstrasz

Hyperparameter Optimization to Improve Bug Prediction Accuracy  
Haidar Osman, Mohammad Ghafari and Oscar Nierstrasz

Futsal

Futsal (16:00 - 20:00, Sportinstitut Klagenfurt)
February 22nd, Wednesday

Opening (09:00 - 09:30, HS A)
Session Chairs: Martin Pinzger, Gabriele Bavota, and Andrian Marcus

Keynote (09:30 - 10:30, HS A)
Session Chair: Martin Pinzger
UNVEIL: A Large-Scale, Automated Approach to Detecting Ransomware
Engin Kirda

R1 – MSR and Open Source (11:00 - 12:30, HS A)
Session Chair: Gregorio Robles
An Empirical Comparison of Dependency Issues in OSS Packaging Ecosystems
Alexandre Decan, Tom Mens and Maëlick Claes
Detecting Similar Repositories on GitHub
Yun Zhang, David Lo, Pavneet Singh Kochhar, Xin Xia, Quanlai Li and Jianling Sun
Code of Conduct in Open Source Projects
Parastou Tourani, Bram Adams and Alexander Serebrenik
Socio-Technical Evolution of the Ruby Ecosystem in GitHub
Eleni Constantinou and Tom Mens

ERA1 – Learning from and Providing Help to Developers (11:00 - 12:30, HS B)
Session Chair: Sebastian Proksch
What Information about Code Snippets Is Available in Different Software-Related Documents? An Exploratory Study
Preetha Chatterjee, Manziba Akanda Nishi, Kostadin Damevski, Vinay Augustine, Lori Pollock and Nicholas A. Kraft
Harnessing Twitter to Support Serendipitous Learning of Developers
Abhishek Sharma, Yuan Tian, Agus Sulisty, David Lo and Aiko Yamashita
Why We Break APIs? First Answers from Developers
Laerte Xavier, Andre Hora and Marco Tulio Valente
An Arc-Based Approach for Visualization of Code Smells
Marcel Steinbeck
Towards Continuous Software Release Planning
David Ameller, Carles Farré, Xavier Franch, Danilo Valerio and Antonino Cassarino

R2 – Features and Knowledge (14:00 - 15:30, HS A)
Session Chair: Rocco Oliveto
StiCProb: A Novel Feature Mining Approach Using Conditional Probability
Yutian Tang and Hareton Leung
HDSKG: Harvesting Domain Specific Knowledge Graph from Content of Webpages
Xuejiao Zhao, Zhenchang Xing, Muhammad Ashad Kabir, Shangwei Lin, Jing Li and Naoya Sawada
Analyzing Closeness of Code Dependencies for Improving IR-based Traceability Recovery
Hongyu Kuang, Jia Nie, Hao Hu, Patrick Rempel, Jian Lü, Alexander Egyed and Patrick Mäder
STRICT: Information Retrieval Based Search Term Identification for Concept Location
Mohammad Masudur Rahman and Chanchal K. Roy

TD1 – Static Analysis and Refactoring (14:00 - 15:30, HS B)
Session Chair: Aiko Yamashita
XCore: Support for Developing Program Analysis Tools
Alexandru Ștefăniță and Petru F. Mihancea
srcQL: A Syntax-Aware Query Language for Source Code
Brian Bartman, Christian Newman, Michael Collard and Jonathan Maletic
UAV: Warnings from Multiple Automated Static Analysis Tools at a Glance
Tim Buckers, Clinton Cao, Michiel Doesburg, Boning Gong, Sunwei Wang, Moritz Beller and Andy Zaidman
The Spartanizer – Massive Automatic Refactoring
Yossi Gil and Matteo Orru
c-JRefRec: Change-Based Identification of Move Method Refactoring Opportunities
Naoya Ujihara, Ali Ouni, Takashi Ishio and Katsuro Inoue
Lightweight Detection of Android-specific Code Smells: the aDoctor Project
Fabio Palomba, Dario Di Nucci, Annibale Panichella, Andy Zaidman and Andrea De Lucia

R3 – Apps and Energy (16:00 - 17:10, HS A)
Session Chair: Foutse Kohm
Analyzing Reviews and Code of Mobile Apps for better Release Planning
Adelina Ciurumelea, Andreas Schaufelbuhl, Sebastiano Panichella and Harald Gall
Software-Based Energy Profiling of Android Apps: Simple, Efficient and Reliable?
Dario Di Nucci, Fabio Palomba, Antonio Prota, Annibale Panichella, Andy Zaidman and Andrea De Lucia
Investigating the Energy Impact of Android Smells
Antonin Carette, Mehdi Adel Ait Younes, Geoffrey Hecht, Naouel Moha and Romain Rouvoy

R4 – Software and Model Analysis (16:00 - 17:10, HS B)
Session Chair: Alexander Serebrenik
Automated Generation of Consistency-Achieving Modeling Editors
Patrick Neubauer, Robert Bill, Manuel Wimmer and Tanja Mayerhofer
Historical and Impact Analysis of API Breaking Changes: A Large-Scale Study
Laerte Xavier, Aline Brito, Andre Hora and Marco Tulio Valente
Reducing Redundancies in Multi-Revision Code Analysis
Carol V. Alexandru, Sebastiano Panichella and Harald C. Gall

SANER 2017 Reception

SANER 2017 Reception (19:00-23:00, Schleppe Eventhalle)
Bus will leave in front of the university at 18:30
**February 23rd, Thursday**

**MIP Award and Presentation (09:00 - 10:30, HS A)**
Session Chairs: Gabriele Bavota and Andrian Marcus

How Clones are Maintained: An Empirical Study
Lerina Aversano, Luigi Cerulo, and Massimiliano Di Penta

**R5 – Code and Data Transformations (11:00 - 12:30, HS A)**
Session Chair: Andy Zaidman

Recommending Source Code Locations for System Specific Transformations
Gustavo Santos, Klérisson Paixão, Nicolas Anquetil, Anne Etien, Marcelo Maia and Stéphane Ducasse

Extracting Executable Transformations from Distilled Code Changes
Reinout Stevens and Coen De Roover

Automatic Generation of Opaque Constants Based on the K-clique Problem for Resilient Data Obfuscation
Roberto Tiella and Mariano Ceccato

The Dark Side of Event Sourcing: Managing Data Conversion
Michiel Overeem, Marten Spoor and Slinger Jansen

**TD2 – Binaries and Evolution (11:00 - 12:30, HS B)**
Session Chair: Aiko Yamashita

scat: What can we learn from a binary in a single execution?
Franck de Goë de Herve, Christopher Ferreira and Mounier Laurent

dynStruct: An automatic reverse engineering tool for structure recovery and memory use analysis
Daniel Mercier, Aziem Chawdhary and Richard Jones

InsDal: A Safe and Extensible Instrumentation Tool on Dalvik Byte-code for Android Applications
Jierui Liu, Tianyong Wu, Xi Deng, Jun Yan and Jian Zhang

Columbo – High Performance Unpacking
Jason Raber

Hindsight: Revealing the Evolution of Dependencies to Developers
George Ganea

Replan: a Release Planning Tool
David Ameller, Carles Farré, Xavier Franch, Antonino Cassarino, Danilo Valerio and Valentin Elvassore

**Posters and Informal Tool Demo (14:00 - 15:30, HS A)**
Session Chairs: Sarah Nadi and Luca Ponzanelli

An Empirical Study of Clone Density Evolution and Developer Cloning Tendency
Brent van Bladel, Alessandro Murgia, and Serge Demeyer

Towards Reverse Engineering of Intermediate Code for Documentation Generators
Michael Moser, Michael Pfeiffer, and Josef Pichler

A Framework for Classifying and Comparing Source Code Recommendation Systems
Mohammad Ghafari and Hamidreza Moradi
Self-Adaptive Systems Framework Based on Agent and Search-Based Optimization
Liu He, Qingshan Li, Lu Wang, and Jiewen Wan

The Importance of Program Design Patterns Training
Viggo Holmstedt and Shegaw Mengiste

Conventionality Analysis of Array Objects in JavaScript
Astrid Younang and Lunjin Lu

Two Improvements to Detect Duplicates in Stack Overflow
Yuji Mizobuchi and Kuniharu Takayama

Modernizing Domain-Specific Languages with XMLText and IntellEdit
Patrick Neubauer, Robert Bill, and Manuel Wimmer

Lost Comments Support Program Comprehension
Takayuki Omori

Does the Release Cycle of a Library Project Influence When It Is Adopted by a Client Project?
Daiki Fujibayashi, Akinori Ihara, Hirohiko Suwa, Raula Gaikovina Kula, and Kenichi Matsumoto

Which Review Feedback Did Long-Term Contributors Get on OSS Projects?
Takuto Norikane, Akinori Ihara, and Kenichi Matsumoto

Frame-Based Behavior Preservation in Refactoring
Katsuhisa Maruyama, Shinpei Hayashi, Norihiro Yoshida, and Eunjong Choi

Log Generation for Coding Behavior Analysis: For Focusing on How Kids Are Coding Not What They Are Coding
Ra-Jeong Moon, Kyu-Min Shim, Hae-Young Lee, and Hyung-Jong Kim

Towards Understanding an Open-Source Bounty: Analysis of Bountysource
Tetsuya Kanda, Mingyu Guo, Hideaki Hata, and Kenichi Matsumoto

R6 – Program Comprehension (16:00 - 17:30, HS A)
Session Chair: Mike Godfrey

Automatically Generating Natural Language Descriptions for Object-related Statement Sequences
Xiaoran Wang, Lori Pollock and Vijay Shanker

Shorter Code Takes Longer to Comprehend
Johannes C.N. Hofmeister, Janet Siegmund and Daniel V. Holt

Lexical Categories for Source Code Identifiers
Christian Newman, Reem Alsuhaibani, Michael Collard and Jonathan Maletic

Computing Counter-Examples for Privilege Protection Losses Using Security Models
Marc-Andre Laverdiere and Ettore Merlo

SANER 2017 Banquet

SANER 2017 Banquet (19:00 - 23:30, Casino Velden)
Bus will leave in front of the university at 18:30
February 24th, Friday

**R7 – Software Development Support (09:00 - 10:30, HS A)**
Session Chair: David Lo

Enriching In-IDE Process Information with Fine-grained Source Code History
Sebastian Proksch, Sarah Nadi, Sven Amann and Mira Mezini

How To Gamify Software Engineering
Tommaso Dal Sasso, Andrea Mocci, Michele Lanza and Ebrisa Savina Mastrodicasa

Scalable Tag Recommendation for Software Information Sites
Pingyi Zhou, Jin Liu, Zijiang Yang and Guangyou Zhou

Stack Overflow: A Code Laundering Platform?
Le An, Ons Mlouki, Foutse Khomh and Giuliano Antoniol

**ERA2 – Evolution of Open Source Systems (09:00 - 10:30, HS B)**
Session Chair: Sebastiano Panichella

An Exploratory Study on Library Aging by Monitoring Client Usage in a Software Ecosystem
Raula Gaikovina Kula, Daniel German, Takashi Ishio, Ali Ouni and Katsuro Inoue

Trends on Empty Exception Handlers for Java Open Source Libraries
Ana Filipa Nogueira, José Carlos Ribeiro and Mário Zenha-Rela

Analyzing the Evolution of Testing Library Usage in Open Source Java Projects
Ahmed Zerouali and Tom Mens

On the evolution of exception usage in Java projects
Haidar Osman, Andrei Chis, Jakob Schaefer, Mohammad Ghafari and Oscar Nierstrasz

Statically Identifying Class Dependencies In Legacy JavaScript Systems: First Results
Leonardo Humberto Silva, Marco Tulio Valente and Alexandre Bergel

CodeCritics Applied to Database Schema: Challenges and First Results
Julien Delplanque, Anne Etien, Olivier Auverlot, Tom Mens, Nicolas Anquetil and Stéphane Ducasse

**R8 – Code Smells and Refactoring (11:00 - 12:30, HS A)**
Session Chair: Serge Demeyer

An Empirical Study of Code Smells In JavaScript Projects
Amir Saboury, Pooya Musavi, Foutse Khomh and Giuliano Antoniol

Antipatterns Causing Memory Bloat: A Case-Study
Kamil Jezek and Richard Lipka

Variant-Preserving Refactorings for Migrating Cloned Products to a Product Line
Wolfram Fenske, Jens Meinicke, Sandro Schulze, Steffen Schulze and Gunter Saake

Efficient Method Extraction for Automatic Elimination of Type-3 Clones
Ran Ettinger, Shmuel Tyszberowicz and Shay Menaia

**Industry (11:00 - 12:30, HS B)**
Session Chair: Gregorio Robles

Bringing Back-in-Time Debugging down to the Database
Arian Treffer, Michael Perscheid and Matthias Uflacker
Performance Tuning for Automotive Software Fault Prediction  
Harald Altinger, Steffen Herbold, Friederike Schneemann, Jens Grabowski and Franz Wotawa

Business Process Recovery based on System Log and Information of Organizational Structure  
Ryota Mibe, Tadashi Tanaka, Takashi Kobayashi and Shingo Kobayashi

Multi-Language Re-Documentation to Support a COBOL to Java Migration Project  
Bernhard Dorminger, Michael Moser and Josef Pichler

Proactive Reviews of Textual Requirements  
Vard Antinyan

Data Access Visualization for Legacy Application Maintenance  
Keisuke Yano and Akihiko Matsuo

**R9 – Testing and Fault Localization (14:00 - 15:30, HS A)**  
Session Chair: Massimiliano Di Penta

Spreadsheet Testing in Practice  
Sohon Roy, Felienne Hermans and Arie van Deursen

Dynamic Patch Generation for Null Pointer Exceptions Using Metaprogramming  
Thomas Durieux, Benoit Cornu, Lionel Seinturier and Martin Monperrus

Improving Fault Localization for Simulink Models using Search-Based Testing and Prediction Models  
Bing Liu, Lucia Lucia, Shiva Nejati and Lionel Briand

An empirical investigation into the cost-effectiveness of test effort allocation strategies for finding faults  
Yiyang Feng, Wanyin Ma, Yibiao Yang, Hongmin Lu, Yuming Zhou and Baowen Xu

**ERA3 – Patterns and Optimization (14:00 - 15:30, HS B)**  
Session Chair: Coen De Roover

Cloud-based Parallel Concolic Execution  
Ting Chen, Youzheng Feng, Xiapu Luo, Xiaodong Lin and Xiaosong Zhang

Under-optimized Smart Contracts Devour Your Money  
Ting Chen, Xiaoqi Li, Xiapu Luo and Xiaosong Zhang

Pluggable Controllers and Nano-Patterns  
Yossi Gil, Ori Marcovitch and Matteo Orru

Query Construction Patterns in PHP  
David Anderson and Mark Hills.

Supporting Schema Evolution in Schema-less NoSQL Data Stores  
Loup Meurice and Anthony Cleve

**Open Steering Committee Meeting (15:30 - 16:00, HS A)**  
Session Chair: Serge Demeyer

**Closing and Presentation of SANER 2018 (16:00-16:30, HS A)**
General Information

Proceedings
Link: http://saner.aau.at/proceedings

WiFi
Network Name: eduroam  EAP Method: PEAP
Identity: w-saner  Authentication: MSCHAPv2
Password: saner2017

Smoking
Our campus is non-smoking except for the designated smoking spots.

Pharmacy
Uni-Apotheke, Universitätsstr. 23, open: Mon - Fri 08:00 - 18:30, Sat 08:00 - 12:00

Taxi
Taxi Kette +43 463 281111  Taxi 31-111 +43 463 31 111
City-Taxi +43 699 14060222  Taxi Klagenfurt +43 463 2010

Emergency Calls
European Emergency Number: 112
Firefighters: 122
Police: 133
Ambulance: 144

Gastronomy near the University
- Bistro Freigeist, Universitätsstr. 102, Mon - Fri 08:00 - 16:00; http://www.bistro-freigeist.at
- Chinesischer Garten, Villacher Straße 221; Chinese restaurant, daily 11:30 - 14:30 and 17:30 - 23:30
- Osteria Panta Rhei; International kitchen; Mon - Sat 17.00 - 22.00; www.osteria-panta-rhei.at
- Seepark Hotel, Universitätsstraße 104; Restaurant Laguna (exalted) and Gig-Bar & Café; Restaurant open until 22:00, Gig Bar & Café until 24:00; www.seeparkhotel.at/en/laguna
- Unipizzeria, Universitätsstraße 33; daily 11:00 - 23:00, Sun until 22:00; www.uni-pizzeria.at
- UNI.WIRT, Nautilusweg 11; Mon - Sat 08:00 - 24:00, kitchen until 22:00; http://www.uniwiirt.at
- Weidenhof, Süduferstraße 66; Mon - Fri 11:30 - 15:00 and 17:00 - 21:30, Sat 11:30 - 21:30, Sun 11:30 - 21:00; Reservation: +43463 281540-50
- Wienerroither, Bakery & Café, Universitätsstr. 98, Mon - Fri 06:30 - 18:30, Sat/Sun 06:30 - 14:00
Organization

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Rick Kazman
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David Lo
Singapore Management University
Maps

- Seepark Hotel
- Futsal, USI
- Cash point
- Mensa, Lunch
- Uni Pizzeria
- Uni Wirt
- University Bus stop
- Registration, Coffee break

Second floor

First floor

Ground floor