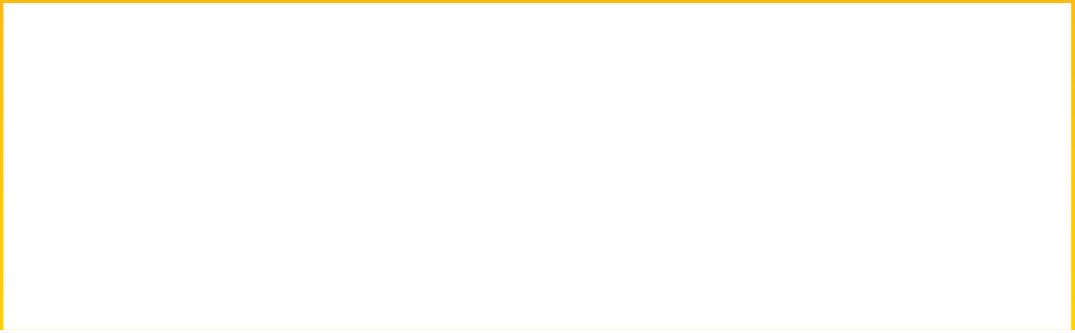




Vienna Center for
Logic and Algorithms

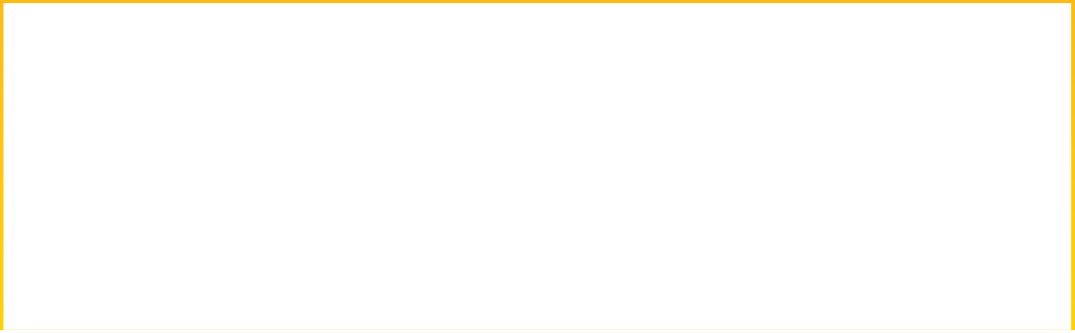


Annual Report 2015/2016



Contents

5	About VCLA
6	Helmut Veith 1971-2016
7	Organization
8	Activities
8	Cooperation: Logical Methods in Computer Science
9	Conference: Austrian Computer Science Day 2015
10	Workshop: Stream Reasoning
11	Cooperation: Vienna Science Ball
12	LogicLounges: Cliff B. Jones and Moshe Y. Vardi
13	Workshop: Algebra and Coalgebra meet Proof Theory
14	Spring School: LOVE 2016
15	Distinction: VCLA International Student Awards
16	Workshop: New Trends in Belief Change
17	Invited Speakers and Visitors
19	Media Coverage
22	VCLA Chairs
23	Participants of VCLA Events



About VCLA



Vienna Center for Logic and Algorithms

The Vienna Center for Logic and Algorithms (VCLA) is a globally unique competence center in the field of logic and algorithm research. It was founded in September 2011 and officially opened in January 2012 in the presence of the rector of the Technische Universität Wien (TU Wien) Sabine Seidler and Turing Award laureate Edmund M. Clarke.

The Center was founded by Stefan Szeider and Helmut Veith and led by both until Helmut Veith passed away in March 2016.

The VCLA scientific program 2011-2016 focused on

- Constraint Satisfaction
- Verification of Hardware and Software, and
- Knowledge Representation



The VCLA was funded by TU Wien for its first four-year period and will continue to be funded for another four years as a part of the Doctoral College Logical Methods in Computer Science (LogiCS).

The Center aims to promote international scientific collaboration in logic and algorithms and to communicate Austria's excellence in these two areas of computer science research, using a variety of channels.

These objectives are realized through activities such as

- the VCLA Workshop Series
- the VCLA Schools, a series of winter and summer schools
- the VCLA Visitor Program
- the hosting of talks by renowned international speakers, and
- the co-organisation of events

Helmut Veith 1971-2016

VCLA co-chair Helmut Veith passed away in tragic circumstances on March 12, 2016. He is mourned deeply by the members of the VCLA and his many friends and colleagues.

Helmut was a brilliant researcher, an inspiring collaborator and teacher, a generous friend, and a wonderful father and husband. He leaves a void that will be impossible to fill.

Helmut studied Computational Logic at TU Wien, a *studium irregulare* with a curriculum he designed himself, together with Richard Zach. After appointments at TU Munich and TU Darmstadt, he returned to TU Wien for a full professorship in Computer Aided Verification.

Helmut's passion for logic led him to establish not only the Vienna Center for Logic and Algorithms with Stefan Szeider, but also to bring the largest logic conference in history to Austria - the Vienna Summer of Logic. He also served as the speaker of the Doctoral College Logical Methods in Computer Science and as the deputy coordinator of the National Research Network Rigorous Systems Engineering (RiSE).

Posthumously, Helmut was award-



Photo (c) Philipp Horak

ed the ERC Advanced Grant - one of the highest academic distinctions in Europe - for his project HYDRA (Harnessing Model Checking for Distributed Algorithms).

His achievements in academia and beyond are too numerous to be listed here in full, which is why a memorial page has been instated. The page links to several obituaries which honor Helmut Veith's life and his accomplishments:

<http://www.vcla.at/2016/03/helmut-veith-1971-2016>

Organization

The VCLA is managed by a local board in collaboration with an international advisory board. The local board is responsible for day-to-day management and consults with the advisory board about strategic decisions.

Board	Advisory Board
Thomas Eiter	Matthias Baaz (TU Wien)
Georg Gottlob	Roderick Bloem (TU Graz)
Alexander Leitsch	Agata Ciabattoni (TU Wien)
Reinhard Pichler	Nadia Creignou (Université d'Aix-Marseille)
Stefan Szeider (co-chair)	Anuj Dawar (University of Cambridge)
Helmut Veith (co-chair)†	Fedor Fomin (University of Bergen)
	Laura Kovács (TU Wien)
	Miroslaw Truszczynski (University of Kentucky)
	Moshe Y. Vardi (Rice University)

Public Relations and Project Management
Katarina Singer

Collaborations

The VCLA frequently collaborates with the following institutions, all of which also provide co-financing for various events and activities:

- Institute of Discrete Mathematics and Geometry at TU Wien
- Kurt Gödel Society (KGS)
- Austrian Rigorous Systems Engineering (ARiSE)
- Wolfgang Pauli Institute (WPI)
- Institute of Science and Technology Austria (IST Austria)

Logic and Algorithms Groups

The Center is hosted by five research groups at the Faculty of Informatics:

- AC - Algorithms and Complexity Group
- DBAI - Database and Artificial Intelligence Group
- FORSYTE - Formal Methods in Systems Engineering Group
- KR - Knowledge-Based Systems Group
- Theory and Logic Group

Activities

Cooperation: Logical Methods in Computer Science

The Doctoral College Logical Methods in Computer Science (LogiCS) was established in March 2014 and led by Helmut Veith† and Stefan Szeider.

LogiCS is a PhD degree program funded by the Austrian Science Fund FWF and run jointly by three Austrian universities (TU Wien, Graz University of Technology and Johannes Kepler University Linz). Its faculty comprises fifteen renowned researchers with strong records in research, teaching and advising, complemented by eleven associated members.



The program is aimed at highly motivated students who want to work in one of three fundamental fields of computer science: Databases and Artificial Intelligence, Verification, and Computational Logic.

The program has been very successful so far: It attracted excellent students from seventeen countries, and fifty percent of the fully funded students are female.

<http://logic-cs.at/phd>



Several of
the LogiCS
students

© Sara Meister

Activities

Conference: Austrian Computer Science Day 2015

After co-organizing the first Austrian Computer Science Day in 2012, the VCLA once again supported the conference, which took place in the stunning Kuppelsaal at TU Wien.

More than 80 people attended the eight talks by renowned computer scientists and cheered the winners of the OCG Incentive Award, Harald Beck and Robert Bill.

Organizers

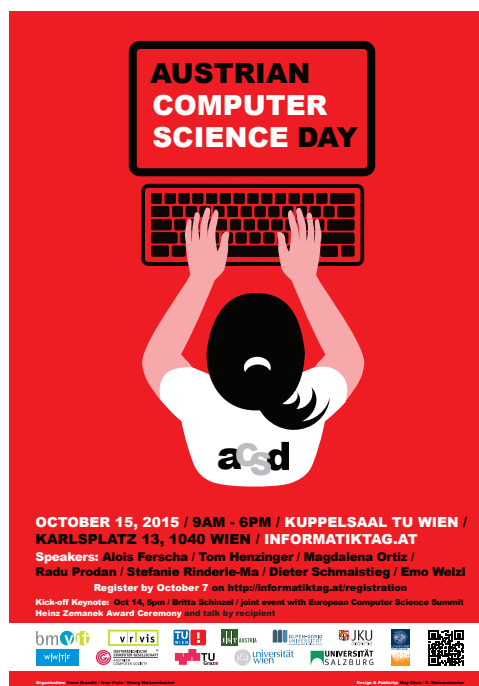
- Ivona Brandić (TU Wien)
- Ivan Viola (TU Wien)
- Georg Weissenbacher (TU Wien)

Steering Committee

- Roderick Bloem (TU Graz)
- Krzysztof Pietrzak (IST Austria)
- Thomas Pock (TU Graz)
- Helmut Veith (TU Wien)

Publicity

- May Chan (IST Austria)



Participating Universities

- Alpen-Adria-Universität Klagenfurt
- IST Austria
- Johannes Kepler Universität Linz
- TU Graz
- TU Wien
- Universität Innsbruck
- Universität Salzburg
- Universität Wien

<http://csd2015.forsyte.at>

Activities

Workshop: Stream Reasoning

The Stream Reasoning Workshop 2015 took place at TU Wien and was co-sponsored by the VCLA.

It aimed at advancing Stream Reasoning as a research theme by bringing together different views and goals. In addition to invited talks, the workshop provided opportunities for all participants to engage in discussions on open problems and future directions.

Organizers

- Harald Beck (TU Wien)
- Minh-Dao Tran (TU Wien)
- Thomas Eiter (TU Wien)
- Katarina Singer (TU Wien)

Keynotes

- Fredrik Heintz (Linköping University)
- Emanuele Della Valle (Politecnico di Milano)

Talks

- Darko Anicic (Siemens AG)
- Alexander Artikis (National Centre for Scientific Research “Demokritos”)
- Jean-Paul Calbimonte (École Poly-



technique Fédérale de Lausanne)

- Thomas Eiter (TU Wien)
- Andreas Harth (Karlsruher Institut für Technologie)
- Ali Intizar (Insight Centre for Data Analytics, Galway)
- Daniel de Leng (Linköping University)
- Boris Motik (Oxford University)
- Konstantin Schekotihin (Universität Klagenfurt)
- Philipp Obermeier (University of Potsdam)
- Özgür Özçep (Universität zu Lübeck)
- Axel Polleres (Vienna University of Economics & Business)
- Anni-Yasmin Turhan (Dresden University of Technology)

<http://www.vcla.at/sr2015>

Activities

Cooperation: Vienna Science Ball

After a close and successful cooperation with the first Vienna Science Ball in January 2015, the VCLA prolonged the partnership for the 2016 edition of the Ball. As in the year before, the Vienna Science Ball was completely sold out, attracting more than 2000 people to the ball rooms of the Vienna City Hall.



Wiener Ball der Wissenschaften

This year, the VCLA cooperated with the Human Computer Interaction Group at the Faculty of Informatics in order to provide the ball guests with special ball accessories: 3D-printed bows in brilliant red.

Of course, part of the program was to ignite the guests' competitive streak with a riddle just like during the first Vienna Science Ball. This time it was a folding puzzle with portraits of Kurt Gödel, courtesy of Erik and Martin Demaine (MIT, USA). The first 15 people who handed in their correct solutions received a 3D-printed bow in return. For a contribution to the refugee initiative of the Faculty of Informatics (Welcome.TU.code), those without such quick riddle-solving skills received a bow as well.

<http://www.wissenschaftsball.at>

<http://www.informatik.tuwien.ac.at/welcomeTUcode>

Activities

LogicLounges: Cliff B. Jones and Moshe Y. Vardi

The LogicLounge, a meeting place for friends of logic from academia and the public, was created during the Vienna Summer of Logic 2014, the largest conference in the history of logic research. Its success inspired the LogicLounge initiators, Helmut Veith and Oliver Lehmann (IST Austria), to continue the one-hour discussions with eminent scientists from the fields of logic, computer science and philosophy even after the Vienna Summer of Logic had ended.

In March 2016, Cliff B. Jones (University of Newcastle), discussed the topic of Formal Methods and his time at the Vienna IBM Lab with Tanja Traxler (Der Standard) at TU Wien. Several of his colleagues from the 1960s attended the event as well.

In July 2016, the LogicLounge went overseas: the organizers of the conference Computer-Aided Verification (CAV) 2016 held an instance of this series in memory of Helmut Veith. Moshe Vardi (Rice University) discussed with Canadian journalist Dan Falk whether robots were going to take human jobs.

<http://www.vcla.at/logiclounge>



Cliff B. Jones and his colleagues from the IBM Lab

Activities

Workshop: Algebra and Coalgebra meet Proof Theory

Algebra and Coalgebra meet Proof Theory (ALCOP) is a workshop series whose seventh edition took place at TU Wien in April 2016. It was supported by the VCLA, the Wolfgang Pauli Institute and by the Kurt Gödel Society.

The workshop was hosted by the Theory and Logic Group. Its aim was to bring together experts in algebraic logic, coalgebraic logic and proof theory to share new results and to strengthen the relationship between these fields.

Invited Speakers

- **Matthias Baaz** (TU Wien)
- **Nick Bezhanishvili** (U. Amsterdam)
- **Alessio Guglielmi** (U. Bath)
- **Rosalie Iemhoff** (U. Utrecht)
- **Alessandra Palmigiano** (U. Delft)
- **Kazushige Terui** (U. Kyoto)
- **Luca Viganò** (U. London)

Local Organizing Committee

- **Paolo Baldi**
- **Leonardo Cabrer**
- **Agata Ciabattoni** (Chair)
- **Francesco A. Genco**
- **Roman Kuznets**
- **Björn Lellmann**
- **Revantha Ramanayake**
- **Vlasta Sikimić**

Steering Committee

- **Nick Bezhanishvili** (U. Amsterdam)
- **Rostislav Horčík** (U. Prague)
- **Rosalie Iemhoff** (U. Utrecht)
- **Clemens Kupke** (U. Glasgow)
- **George Metcalfe** (U. Bern)
- **Alessandra Palmigiano** (U. Delft)

<http://alcop2016.logic.at>

Activities

Spring School: LOVE 2016

The RiSE and LogiCS Spring School on Logic and Verification (LOVE) 2016 took place in April 2016 and was supported by the Vienna Center for Logic and Algorithms, among others.

The Spring School was aimed at master's and doctoral students in Computer Science and Mathematics with a strong interest in Logic and Automated Verification. It attracted 50 attendees, eight of which were from North America, three from South America, four from Asia and 35 from various European countries.

<http://forsyte.at/events/love2016>



LOVE 2016 attendees during a lecture

Photos by Matthias Schlaipfer



Georg Weissenbacher introducing one of the speakers



Dinner at a traditional Austrian inn

Activities

Distinction: VCLA International Student Awards

The highly successful second edition of the VCLA International Student Awards was concluded on April 16, 2016 with the celebration of two winners.

Out of 22 submissions in total, one was selected for the Outstanding Master Thesis Award and one for the Outstanding Undergraduate Research Award by a committee consisting of 20 internationally recognized researchers. An honorable mention was also given to one of the submissions. The award ceremony took place during the Spring School on Logic and Verification (LOVE 2016).



f.l.t.r.: Stefan Szeider, Bahareh Afshari, Maximilian Schleich, Valeria Vignudelli, Felix Dörre, Magdalena Ortiz, Igor Konnov, Simone Bova

VCLA chair Stefan Szeider congratulated the following award recipients:

Outstanding Master Thesis Award

Valeria Vignudelli (Thesis: The Discriminating Power of Higher-Order Languages: A Process Algebraic Approach)

Outstanding Undergraduate Research Award

Felix Dörre (Thesis: Verification of Random Number Generators)

Honorable Mention

Maximilian Schleich (Thesis: Learning Regression Models over Factorised Joins)

The VCLA International Student Awards are given to authors of outstanding scientific works in the field of Logic and Computer Science.

<http://www.vcla.at/second-edition-of-the-vcla-international-student-awards>

Photography © VCLA

Activities

Workshop: New Trends in Belief Change

This symposium was jointly funded by the VCLA and the Wolfgang Pauli Institute and took place in May 2016. It was organized by Stefan Woltran, Jean-Guy Mailly and Adrian Haret. Twenty-three participants from Europe and North America attended the workshop.

The aim of this workshop was to bring together researchers from different fields in order to discuss recent results and ongoing work on these new challenges.

Topics of interest included:

Belief Change in:

- Fragments of Classical Logic
- Nonclassical Logics

Belief Change and:

- Computational Social Choice
- Stream Reasoning
- Ontologies

<http://dbai.tuwien.ac.at/ntbc16>



Stefan Woltran
© NTBC16



Pavlos Peppas
© NTBC16

Invited Speakers and Visitors

Eighteen talks by speakers from countries across the world have been hosted by the VCLA during the past year. An online listing with abstracts is available at <http://www.vcla.at/category/talks>

Jörg Rothe (Universität Düsseldorf, Germany): Economics and Computation: Five Challenges in Algorithmic Game Theory, Computational Social Choice, and Fair Division

Martin Schäfer (SRI International, USA): Classifying Bugs with Interpolants

Igor Razgon (Birkbeck University of London, United Kingdom): Lower bounds for branching programs of bounded repetition computing CNFs of bounded treewidth: an overview

Idit Keidar (Technion, Israel): Transactional Data Structure Libraries

Leslie Lamport (Microsoft USA): A Mathematical View of Computer Systems – Q&A

Tom van Dijk (University of Twente, Netherlands): Workers in forests: developments in parallel decision diagrams

Joseph Sifakis (IMAG, France): Rigorous System Design in BIP

O-Joung Kwon (Hungarian Academy of Sciences, Hungary): Deletion problems regarding graphs of bounded rank-width

Cliff B. Jones (Newcastle University, United Kingdom): Reasoning about Interference (or Lack Thereof)

Evgenia Ternovska (Simon Fraser University, Canada): An Algebra of Modular Systems

Johannes Hölzl (TU München, Germany): Markov chains and Markov decision processes in Isabelle/HOL

Pierre Bourhis (LIFL, France): A Formal Study of Collaborative Access Control in Distributed Datalog

Keren Censor-Hillel (Technion, Israel): Distributed Algorithms as Combinatorial Structures

Maria Gorinova (University of Cambridge, United Kingdom): Termination proving

Invited Speakers and Visitors

Eighteen talks by speakers from countries across the world have been hosted by the VCLA during the past year. An online listing with abstracts is available at <http://www.vcla.at/category/talks>

Martin Suda (University of Manchester, United Kingdom): Resolution-based Methods for Linear Temporal Reasoning

Sayan Mitra (University of Illinois at Urbana Champaign, USA): Automating invariant and progress proofs for distributed systems

Bertrand Mayer (ETH Zurich, Switzerland): A Theory of Programs

Miroslav Truszczyński (University of Kentucky, USA): Abstract Perspectives on Modularity in Knowledge Representation

Media Coverage

The VCLA was present in the media through its members and activities, especially the Doctoral College Logical Methods in Computer Science, and the Vienna Science Ball.

May 18, 2016

Article in *Heureka* 2/16 (German)

Young researchers

https://www.falter.at/heureka/FALTER_201605187E1926CBD8/jungforscherinnen

January 31, 2016

Article on *wien.orf.at* (German)

Ball buffet with locusts and worms

<http://wien.orf.at/news/stories/2755216>

January 25, 2016

Article on *science.apa.at* (German)

Vienna Science Ball: final ticket sale

https://science.apa.at/rubrik/kultur_und_gesellschaft/Wiener_Ball_der_Wissenschaften_Kartenverkauf_im_Finale/SCI_20160125_SCI39431352627855924

January 14, 2016

Article on *inwien.at* (German)

Dancing in competition with molecules

<https://inwien.at/Mit-Molekuelen-um-die-Wette-tanzen.42488.0.html>

January 13, 2016

Article on *woman.at* (German)

Win two tickets for the Science Ball

<http://www.woman.at/a/wissenschaftsball-wien-2016>

Media Coverage

The VCLA was present in the media through its members and activities, especially the Doctoral College Logical Methods in Computer Science, and the Vienna Science Ball.

January 11, 2016

Article on *scienceblogs.de* (German)

Pluto's waltz and the second Vienna Science Ball

<http://scienceblogs.de/astrodicticum-simplex/2016/01/11/plutos-walzertanz-und-der-zweite-wiener-ball-der-wissenschaften>

December 29, 2015

Article on *reflex.cz* (Czech)

There are enough fancy balls in Vienna, scientist will serve bugs at theirs

<http://www.reflex.cz/clanek/zajimavosti/68302/nobl-plesu-je-ve-vidni-dost-vedatori-na-tom-svem-budou-servirovat-brouky.html>

December 15, 2015

Article on *vienna.at* (German)

Science Ball: "Decent fun, dance with attitude"

<http://www.vienna.at/ball-der-wissenschaften-spass-mit-anstand-tanz-mit-haltung/4552291>

December 1, 2015

Article on *profil.at* (German)

The magic of numbers: Ada Lovelace and her successors

<http://www.profil.at/wissenschaft/zahlenzauber-ada-lovelace-nachfolgerinnen-6115618>

Media Coverage

The VCLA was present in the media through its members and activities, especially the Doctoral College Logical Methods in Computer Science, and the Vienna Science Ball.

November 17, 2015

Article on *science.orf.at* (German)

Criticism: National research is “underfunded”

<http://sciencev2.orf.at/stories/1764645>

Article on *derstandard.at* (German)

Research: experts point to underfinancing and lack of private funding

<http://derstandard.at/2000025876909/Experten-orten-Unterfinanzierung-und-Privatgeld-Mangel>

Article on *studium.at* (German)

Experts on fundamental research in Austria: severe underfinancing and lack of private funding

<http://www.studium.at/416422-experten-zur-grundlagenforschung-oesterreich-starke-unterfinanzierung-und-mangel-privatgeld>

VCLA Chairs



Stefan Szeider and Helmut Veith were co-chairs of the Vienna Center for Logic and Algorithms until Helmut Veith passed away in March 2016. They founded the VCLA in 2011, assuming the strategic leadership over its activities. The Center is now led by Stefan Szeider.

Stefan Szeider is a full professor at TU Wien and head of the Algorithms and Complexity Group at the Faculty of Informatics. He is also the speaker (formerly deputy speaker) of the Doctoral College Logical Methods in Computer Science and scientific co-organizer of the Vienna Gödel Lectures.

In his research, Szeider combines algorithmic and logic-based methods for the efficient solution of hard problems that arise in Artificial Intelligence, Automated Reasoning, and Combinatorial Optimization, complemented by complexity-theoretic methods for establishing theoretical limits and lower bounds.

Helmut Veith was a full professor at TU Wien and head of the Formal Methods in Systems Engineering Group at the Faculty of Informatics. He was also an adjunct professor at Carnegie Mellon University and the speaker of the Doctoral College Logical Methods in Computer Science.

In his research, Helmut Veith applied formal and logical methods to problems in software technology and engineering. His work focused on model checking, software verification and testing, embedded software and computer security.

Participants of VCLA Events

Workshop on Stream Reasoning 2015

Shqiponja Ahmetaj
Albin Ahmeti
Darko Anicic
Alexander Artikis
Harald Beck
Bruno Bierbaumer
Markus Brenner
Jean-Paul Calbimonte
Minh Dao-Tran
Thomas Eiter
Javier Fernandez
Andreas Harth
Manfred Hauswirth
Fredrik Heintz
Hermann Hellwagner
Ali Intizar
Elmar Kiesling
Daniel de Leng
Boris Motik
Philipp Obermeier
Özgür Özçep
Axel Polleres
Jörg Pührer
Alessandro Ronca
Sebastian Rudolph
Orkunt Sabuncu
Torsten Schaub
Konstantin Schekotihin
Stefan Schlobach
Patrik Schneider
Mattias Tiger

Dmitriy Traytel
Anni-Yasmin Turhan
Jacopo Urbani
Emanuele Della Valle
Peter Wetz
Stefan Woltran
Pouyan Ziafati

LOVE 2016 Spring School

Houssam Abbas
Sebastian Arming
Stanley Bak
Nicolas Braud-Santoni
Kim Do Hyun
Pierre Donat-Bouillud
Felix Dörre
Fernando L. Dotti
Rohit Dureja
Gabriel Ebner
Katalin Fazekas
Andreas Fellner
Shromona Ghosh
Bernhard Gleiss
Henning Guenther
Chunhui Guo
Ákos Hajdu
Kuk Jang
Martin Jonas
Yong-Kee Jun
Jens Katelaan
Ayrat Khalimov
Benjamin Kiesel
Jonatan Kilhamn
Bettina Könighofer
Selyunin Konstantin
Marijana Lazic
Jeong A Lee
Anna Lukina
Julio Machado
Alfio Martini

Participants of VCLA Events

Workshop: Algebra and Coalgebra meet Proof Theory

Cornelia Mayer
Vince Molnár
Andreas Moßburger
Sebyll Onbasi
Thomas Pani
Ivan Radicek
Adrian Rebola Pardo
Alena Rodionova
Dorsa Sadigh
Indranil Saha
Sarah Sophie Sallinger
Matthias Schlaipfer
Yasser Shoukry Sakr
Ilina Stoilkovska
Mitra Tabaei Befrouei
Loredana Tec
Tamás Tóth
Valeria Vignudelli
András Vörös

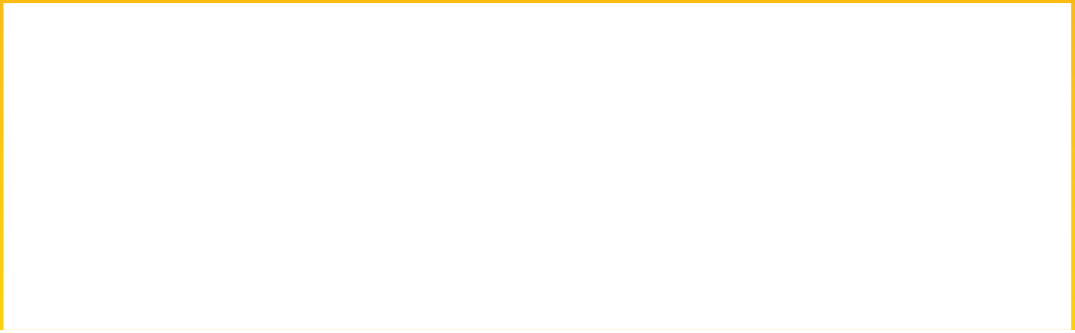
Bahareh Afshari
Andrea Aler Tubella
Christian Antić
Federico Aschieri
Matthias Baaz
Paolo Baldi
Mike Behrisch
Nick Bezhanishvili
Marta Bílková
Kaustuv Chaudhuri
Agata Ciabattoni
Petr Cintula
Andrea Condoluci
Marcello D'Agostino
Serena Delli
Denisa Diaconescu
Gabriel Ebner
Christian Fermüller
Stefan Forster
Sabine Fritella
Sergey Goncharov
Francesco Genco
Giuseppe Greco
Alessio Guglielmi
Francesca Gulisano
Stefan Hetzl
Matthias Hofer
Hykel Hosni
Andreas Humenberger
Rosalie Iemhoff
Dick De Jongh

Roman Kuznets
Frederik Lauridsen
Graham Leigh
Björn Lellmann
Tadeusz Litak
Anela Lolić
Sonia Marin
George Metcalfe
Markus Moschner
Alessandra Palmigiano
Elaine Pimentel
Nika Pona
Benjamin Ralph
Revantha Ramanayake
Christoph Rauch
Adrian Rebola-Pardo
Giselle Reis
Laura Schnüriger
Vlasta Sikimić
Kazushige Terui
Sebastiaan Terwijn
Apostolos Tzimoulis
Luca Viganò
Simon Wolfsteiner
Tik Lok Wong
Fan Yang
Zhiguang Zhao

Participants of VCLA Events

Workshop: New Trends in Belief Change

Michael Abseher
Ringo Baumann
Harald Beck
Nadia Creignou
James Delgrande
Martin Diller
Daniel Eckert
Thomas Eiter
Chris Fermüller
Adrian Haret
Markus Hecher
Thomas Linsbichler
Jean-Guy Mailly
Jan Maly
Magdalena Ortiz
Pavlos Peppas
Andreas Pfandler
Andreas Pieris
Vadim Savenkov
Mantas Šimkus
Sebastian Skritek
Christof Spanring
Stefan Woltran



Editor: Katarina Singer

Publisher: Vienna Center for Logic and Algorithms
Institute of Information Systems
Technische Universität Wien
Favoritenstraße 9-11, 1040 Vienna

Image credits: Nadja Meister (unless stated otherwise)



Vienna Center for
Logic and Algorithms



FAKULTÄT
FÜR INFORMATIK
Faculty of Informatics

Vienna Center for Logic and Algorithms
Institute of Information Systems
Technische Universität Wien

Favoritenstraße 9-11
A-1040 Vienna

Phone: +43 (0) 1 58801 184806
E-mail: office@vcla.at
Web: <http://www.vcla.at>