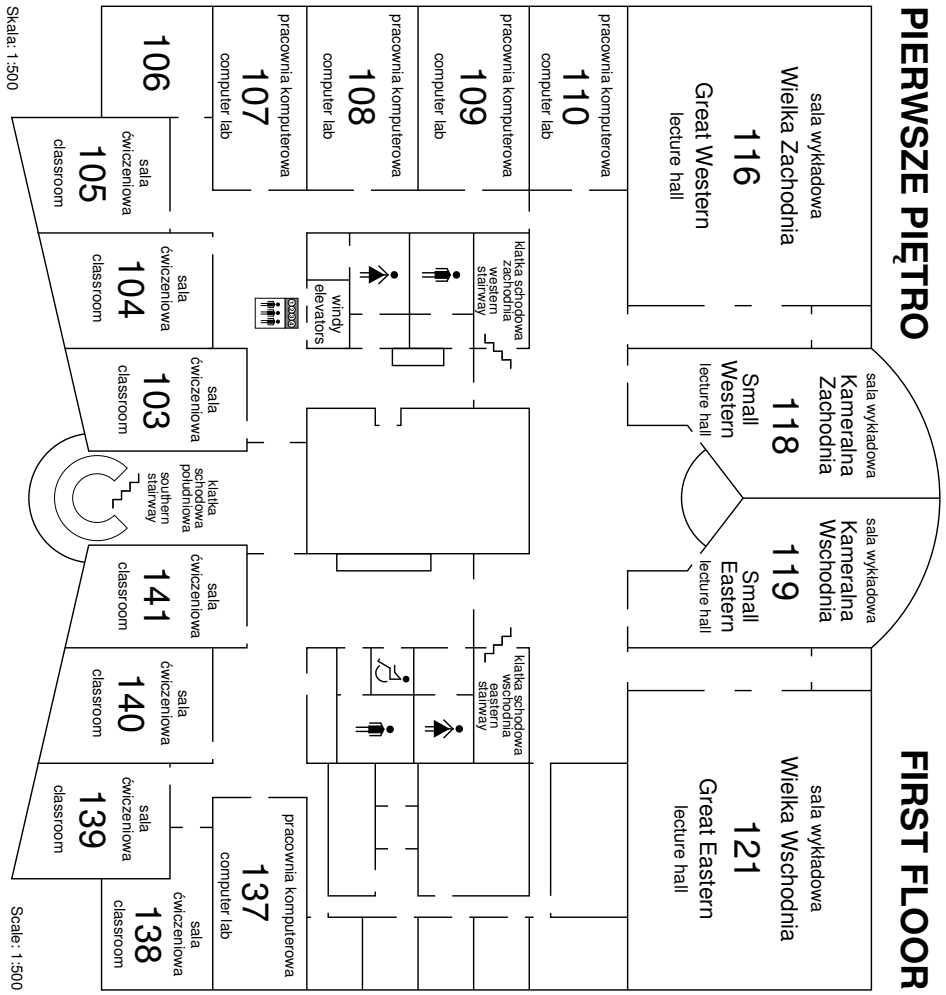
Institute of Computer Science
The University of Wrocław
Wybrzeże Joliot-Curie 15
Wrocław, Poland



All CADE'23 satellite events will take place at the first floor
of the building of the Institute of Computer Science

CADE 23

The 23rd International Conference on Automated Deduction

Sunday, July 31, 2011

Workshops

UNIF 2011: The International Workshop on Unification

ATE 2011: The First Workshop on Automated Theory Engineering

Thedu 2011: CTP Components for Educational Software

Tutorials

Practical Reasoning with Quantified Boolean Formulas

Model Checking Modulo Theories: Theory and Practice

Practical Computer Formalization of Mathematics Using Mizar

Sunday, July 31, 2011

CADE'23 Satellite Tutorials

CADE'23 Satellite Workshops

	Practical Reasoning with Quantified Boolean Formulas	The First Workshop on Automated Theory Engineering	CTP Components for Educational Software	The International Workshop on Unification
Morning session 9:00–10:00	*Morning session* – Motivation – History – Application – Basics	Invited talk by **J. Urban**: *An Overview of Methods for Large-Theory Automated Theory Proving*	Opening	Invited talk by **Christopher Lynch**: *Unification in Cryptographic Protocol Analysis*
Coffee break 10:00–10:30			J. Saludes, S. Xambó, *The GF Mathematics Library*	
Noon session 10:30–12:30	*Noon session* – Decision Procedures – Preprocessing – State-of-the-Art – Challenges	M. Beeson, J. Halcomb, W. Mayer, *Inconsistencies in the Process Specification Language (PSL)*	M. Wenzel, B. Wolff, *Isabelle/PIDE as Platform for Educational Tools*	F. Baader, T. B. Nguyen, S. Borgwardt, B. Morawska, *Computing Local Unifiers in the Description Logic EL without the Top Concept*
		H.-H. Dang, B. Möller, *Simplifying Pointer Kleene Algebra*	G. Allais, *Coq with Power Series*	J. Otop, *Unification of Anti-Terms*
		P. James, M. Roggenbach, *Designing Domain Specific Languages for Verification: First Steps*	C. Kaliszyk, *Formalized Computational Origami in Education*	Ł. Stafiniak, *Joint Constraint Abduction Problems*
			F. Marić, P. Janičić, I. Petrović, D. Petrović, *Formalization and Implementation of Algebraic Methods in Geometry*	W. Dzik, P. Wojtylak, *Projective Unifiers in Modal Logics*
Lunch 12:30–14:00				

	Practical Computer Formalization of Mathematics Using Mizar	Model Checking Modulo Theories: Theory and Practice			
Afternoon session 14:00–15:30	Practical Computer Formalization of Mathematics Using Mizar *Tutorial afternoon session*	Model Checking Modulo Theories: Theory and Practice *Tutorial afternoon session*	Invited talk by **T. Griffin**: *Do Formal Methodists Have Bell-Shaped Heads?*	F. Botana, M. A. Abánades, *Automatic Deduction in Dynamic Geometry using Sage*	Ş. Ciobaca, *Computing Finite Variants for Subterm Convergent Rewrite Systems*
				V. Komendantsky, *Packed Views of Pre-Structured Data*	C. Rau, M. Schmidt-Schauß, *A Unification Algorithm to Compute Overlaps in a Call-by-Need Lambda-Calculus with Variable-Binding Chains*
			V. Naudžiūnas, T. Griffin, *A Domain-Specific Language for the Specification of Path Algebras*	V. Santos, P. Quaresma, *WebGeometryLab*	B. Kavanagh, J. Cheney, *Higher-Order Unification for the $\lambda_{\alpha\nu}$ Calculus*
Coffee break 15:30–16:00					
Evening session 16:00–18:00	Practical Computer Formalization of Mathematics Using Mizar *Tutorial evening session*	Model Checking Modulo Theories: Theory and Practice *Tutorial evening session*	W. Guttmann, G. Struth, T. Weber, *A Repository for Tarski-Kleene Algebras*	W. Schreiner, *Computer-Assisted Program Reasoning Based on a Relational Semantics of Programs*	R. Verma, W. Guo, *Does Unification Help in Normalization?*
			Automated Theorem Engineering: Discussion Session	R.-J. Back, J. Eriksson, *Correct-by-Construction Programming in the Socos Environment*	S. Erbatur, S. Escobar, D. Kapur, *et al.*, *Asymmetric Unification: A New Unification Paradigm for Cryptographic Protocol Analysis*
				W. Neuper, *User Guidance Generated from "Computation Plus Deduction"—the Learner's Perspective*	UNIF 2011 Business Meeting
				S. Autexier, D. Dietrich, M. Schiller, *Cognitive Tutoring in Mathematics Based on Assertion Level Reasoning and Proof Strategies*	
	Room 7	Room 103	Room 118	Room 141	Room 119

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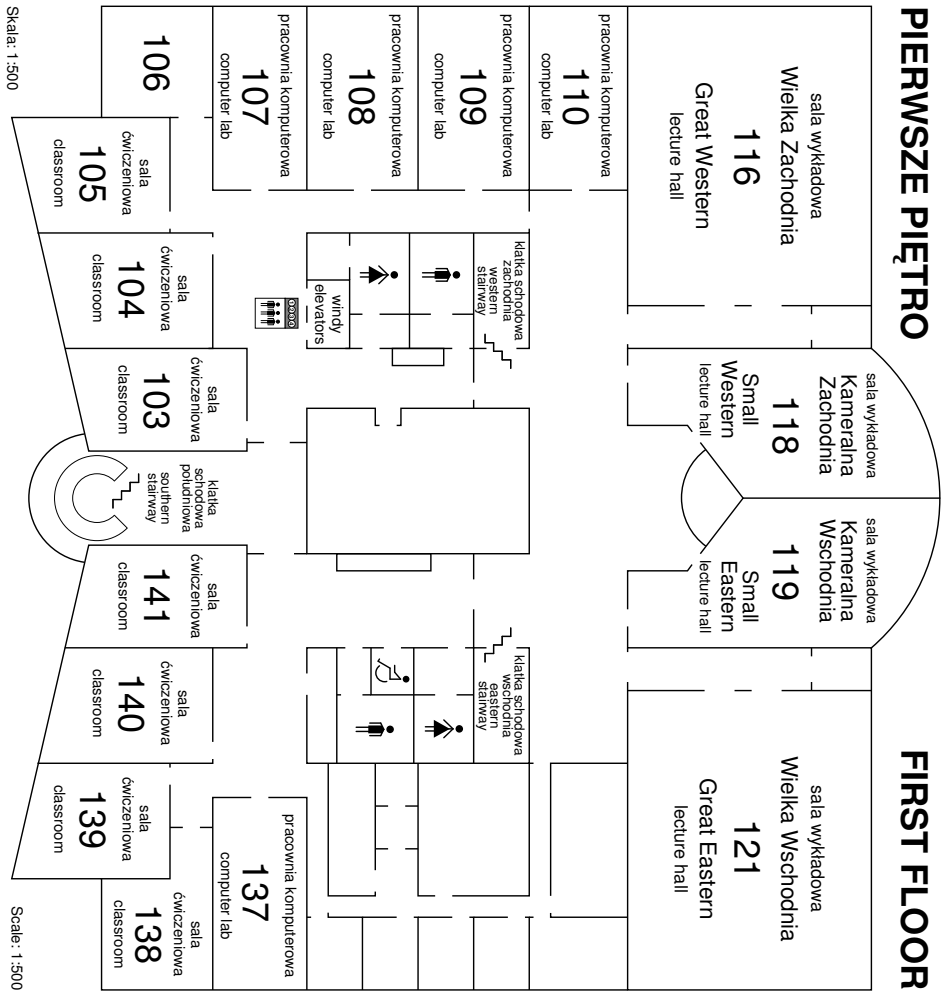

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CADE 23

The 23rd International Conference on Automated Deduction

Monday, August 1, 2011

Workshops

BOOGIE 2011: The First International Workshop on Intermediate Verification Languages

PSATTT 2011: International Workshop on Proof Search in Axiomatic Theories and Type Theories

PxTP 2011: The First Workshop on Proof eXchange for Theorem Proving

Tutorials

First-Order Theorem Proving and Vampire

Grammatical Framework: A Hands-On Introduction

Computational Logic and Human Thinking

Monday, August 1, 2011

CADE'23 Satellite Tutorials

CADE'23 Satellite Workshops

		First-Order Theorem Proving and Vampire	1st International Workshop on Intermediate Verification Languages	Int'l Workshop on Proof Search in Axiomatic Theories & Type Theories	1st Workshop on Proof eXchange for Theorem Proving
Morning session 9:00–10:00		Session 1, 9:00–10:00 Andrei Voronkov: *First-order theorem proving and Vampire*	Invited talk by **Viktor Kuncak**	Invited talk by **Jasmin Blanchette**: *Proof Search and Proof Reconstruction in Sledgehammer* Joint session in room 119	
Coffee break 10:00–10:30					
Noon session 10:30–12:30		Session 1 contd., 10:30–11:00 Andrei Voronkov: *First-order theorem proving and Vampire*	M. Backes, C. Hritcu, T. Tarrach, *Automatically Verifying Typing Constraints for a Data Processing Language*	F. Besson, P.-E. Cornilleau, D. Pichardie, *A Nelson-Oppen Based Proof System Using Theory Specific Proof Systems*	
		Session 2, 11:00–11:45 Kryštof Hoder: *Vampire usage and demo*	J. Tschannen, C. A. Furia, M. Nordio, B. Meyer, *Verifying Eiffel Programs with Boogie*	G. Sutcliffe, C. Chang, D. Mcguinness, T. Lebo, Li Ding, P. Pinheiro Da Silva, *Combining Proofs to Form Different Proofs*	
		Session 3, 11:45–12:30 Laura Kovács: *New features and applications of Vampire*	J. Guitton, J. Kanig, Y. Moy, *Why Hi-Lite Ada?*	V. Komendantsky, *Regular Expression Containment as a Proof Search Problem*	P. Rudnicki, J. Urban, *Escape to ATP for Mizar*
			S. Lahiri, C. Hawblitzel, M. Kawaguchi, H. Rebelo, *Mutual Summaries: Unifying Program Comparison Techniques*	P. Fu, A. Stump, J. Vaughan, *A Framework for Internalizing Relations into Type Theory*	S. Merz, H. Vanzetto, *Towards Certification of TLA+ Proof Obligations with SMT Solvers*
Lunch 12:30–14:00	**Grammatical Framework: A Hands-On Introduction**	**Computational Logic and Human Thinking**			
Afternoon session 14:00–15:30	– The place of GF on the map of linguistics, computer science, and logic. – Building a simple translation system and its web interface. – Scaling up a translation system: problems and tools. – Using the GF Resource Grammar Library. – Specifying the translation system for the hands-on session.	Computational Logic and Human Thinking *Tutorial afternoon session*	J.-C. Filliatre, C. Marché, F. Bobot, A. Paskevich, *Why3: Shepherd Your Herd of Provers*	Invited talk by **John Harrison** Joint session in room 119	
			M. Botincan, D. Distefano, M. Dodds, R. Grigore, D. Naudziuniene, M. Parkinson, *coreStar: The Core of jStar*		
			A. Lal, S. Qadeer, S. Lahiri, *Corral: A Whole-Program Analyzer for Boogie*	M. Armand, G. Faure, B. Grégoire, C. Keller, L. Thery, *Verifying SAT and SMT in Coq for a Fully Automated Decision Procedure*	
Coffee break 15:30–16:00					
Evening session 16:00–18:00	– Hands-on session: porting the translation system to a new language. – More advanced GF: grammars and reasoning. – More advanced GF: computational grammars for the world.	Computational Logic and Human Thinking *Tutorial evening session*	Open Discussion: *Next Several Years of Intermediate Verification Languages*	G. Burel, *Consistency Implies Cut Admissibility*	S. Böhme, T. Weber, *Designing Proof Formats: A User's Perspective*
				J. Gao, *Clausal Presentation of Theories in Deduction Modulo*	F. Besson, P. Fontaine, L. Théry, *A Flexible Proof Format for SMT: a Proposal*
					D. Deharbe, P. Fontaine, B. Woltzenlogel Paleo, *Quantifier Inference Rules for SMT Proofs*
					Discussion: *Proofs for SMT*
	Room 104	Room 103	Room 118	Room 141	Room 119