

List of Presentations

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24th January 2022

Invited presentations are marked as such.

- [talk1] *(Invited Presentation) Studying Ontological Arguments with Computers.* The Logic and Religion Webinar, 12 May 2022, Feb. 2022.
- [talk2] *(Invited Presentation) The Computer as Experimental Metaphysician?* The Humanities, The Rise of AI – Implications of Cultural and Societal Engineering, World Expo Dubai, February 7, Feb. 2022.
- [talk3] *(Interview) Higher-Order Logic.* Ontology Talk by Adam Pease, July 2021.
- [talk4] *(Invited Inauguration Speech) Why we need ZLAIRE.* Inauguration Ceremony, Kick-off Meeting of the Zhejiang University-University of Luxembourg Joint Lab on Advanced Intelligent Systems and REasoning (ZLAIRE, <https://xixilogic.org/zlaire/>), Nov. 2021. DOI: 10.13140/RG.2.2.19484.62084.
- [talk5] *(Invited Presentation and Demo) Value-Oriented Ethico-Legal Reasoning in LogiKEy.* AAAI Spring Symposium on Implementing AI Ethics, Mar. 2021.
- [talk6] *(Invited Presentation) A Simplified Variant of Gödel’s Ontological Argument.* Seminar in Logic and Philosophy of Mathematics, University of Helsinki, Nov. 2021.
- [talk7] *(Invited Presentation) Analysis and exploration of theistic arguments with theorem provers and model finders: New insights into the Ontological Argument.* European Academy of Religion (EuARE), Panel on Religion, Technology, and Artificial Intelligence, Aug. 2021.
- [talk8] *(Invited Presentation) Classical Higher-Order Logic (HOL)—Automation and Selected Application.* National Colloquium on AI, Mexico, Jan. 2021.
- [talk9] *(Invited Presentation) Higher-order Free Logic and Free Logic in Higher-order Logic.* Workshop on Existence and Free Logic, Oct. 2021.
- [talk10] *(Invited Presentation) Latest Extensions to LogiKEy.* DELIGHT Project Kick-Off Workshop (online), University of Luxembourg, Dec. 2021.
- [talk11] *(Invited Presentation) Value-Oriented Ethico-Legal Reasoning in LogiKEy.* KI Club, FU Berlin, Apr. 2021.
- [talk12] *(Invited Tutorial, Covid-19-postponed) tba.* PhDs in Logic XII, 2021.
- [talk13] *Value-Oriented Ethico-Legal Reasoning in LogiKEy.* Joint annual meeting of the GI groups Deduction Systems and Logic in Computer Science, Mar. 2021.
- [talk14] *Vertrauenswürdige und Verantwortungsvolle KI für unsere große.* Science Slam der FU Berlin im Rahmen des berlinweiten Wissenschaftsfestivals „Wissensstadt Berlin 2021“, Aug. 2021.
- [talk15] *(Invited E-Lecture) Ethisch-rechtliche Kontrolle von KI Systemen.* Bitkom AI Research Network, bitkom.org, Feb. 2020.
- [talk16] *(Invited E-Lecture) Formales Argumentieren mit dem Computer – über Disziplinergrenzen hinaus.* Große Interdisziplinarität wagen!, Joint event of TU Berlin, FU Berlin, HU Berlin and Charite Berlin organized by Present Futures Forum Berlin, July 2020. DOI: 10.13140/RG.2.2.14168.52487.
- [talk17] *(Invited Keynote, Covid-19-postponed) Ethico-legal governance of intelligent artificial agents – Can post-hoc normative reasoning competencies prevent AI systems from going rogue?* <http://www.xixilogic.org/zjulogai/abstracts/>. Plenary at the International Conferences on Logic and AI, ZJU LogAI, Hangzhou, China, 2020.
- [talk18] *(Invited Panelist) Una Europa Talk: Resistance is futile. You will be digitalized!* Falling Walls and Berlin Science Week, Nov. 2020.
- [talk19] *(Invited Pitch) Berlin Ethics Lab für verantwortliche KI und verantwortliche Mensch-Maschine-Interaktion.* Science Pitch ”Exploration Projects Social Cohesion”, Berlin University Alliance, Aug. 2020.

- [talk20] (*Invited Presentation and Panelist*) *Bitkom Forum Recht 2020, Rechtliche Aspekte von Künstlicher Intelligenz (KI)*. Bundesverband Informationswirtschaft, Telekommunikation und Neue Medien e.V., Oct. 2020.
- [talk21] (*Invited Public Talk*) *Ontologischer Gottesbeweis am Computer*. Akademie Franz Hitze Haus, Münster, 6. Oktober, Oct. 2020.
- [talk22] (*Invited Seminar*) *The Hermeneutics of AI Interpretability*. University of Bern, Philosophy, Oct. 2020.
- [talk23] (*Invited Tutorial*) *Coding Ethics: Computational Techniques for Ethical Decisions*. <https://www.epfl.ch/labs/dcm1/wp-content/uploads/2020/01/EPFL-FU-DHWS-poster.pdf>. EPFL-FU Digital Humanities Winter School "AI Ethics", EPFL Lausanne, 4-5 February, 2020, Feb. 2020.
- [talk24] *A (Simplified) Supreme Being Necessarily Exists, says the Computer: Computationally Explored Variants of Gödel's Ontological Argument*. 17th International Conference on Principles of Knowledge Representation and Reasoning (KR 2020), Sept. 2020. DOI: 10.13140/RG.2.2.35270.29765.
- [talk25] *Encoding Legal Balancing: Automating an Abstract Ethico-Legal Value Ontology in Preference Logic*. The 1st Workshop on Models of Legal Reasoning MLR 2020, hosted by the 17th International Conference on Principles of Knowledge Representation and Reasoning (KR 2020), Sept. 2020.
- [talk26] *Encoding Legal Balancing: Automating an Abstract Ethico-Legal Value Ontology in Preference Logic*. Workshop on Deontic Reasoning, University of Luxembourg, Oct. 2020.
- [talk27] *Reasonable Machines: A Research Manifesto*. 43rd German Conference on Artificial Intelligence, KI2020, September 21–25, 2020: Bamberg, Germany, Sept. 2020.
- [talk28] (*Interview*) *Artificial Intelligence Welcomes Humans*. Available at <https://www.dwih-saopaulo.org/de/themen/kuenstliche-intelligenz/kuenstliche-intelligenz-heisst-die-menschen-herzlich-willkommen/> and <https://www.dwih-saopaulo.org/en/topics/artificial-intelligence/artificial-intelligence-welcomes-humans/>. Deutschen Wissenschafts- und Innovationshauses São Paulo (DWIH São Paulo), Brazil, July 2019.
- [talk29] (*Invited Featured Scientist*) *Der Beweis*. 71. Science Slam Berlin, SO36 Berlin Kreuzberg, May 2019.
- [talk30] (*Invited Keynote*) *Computational Metaphysics: New Insights on Gödel's Ontological Argument and Modal Collapse*. Formal Methods and Science in Philosophy III, Dubrovnik, Croatia, Apr. 2019.
- [talk31] (*Invited Panelist*). Panel Discussion on "Artificial Intelligence", by Nature Research (Springer Nature), with Dean Sanderson (Springer Nature), Oliver Brock (TU Berlin), Dagmar Monett (HWR Berlin), Raul Rojas (FU Berlin), Henry Ford Bau, FU Berlin, Mar. 2019.
- [talk32] (*Invited Panelist*). Panel Discussion on "Laws in LAWS", scientific involvement in the effort to ban Lethal Autonomous Weapon Systems (LAWS), organised by Future of Life Institute <http://futureoflife.org>, with Ariel Conn (FLI) and Kate Folb (Hollywood), Konferenzzentrum der Heinrich-Böll-Stiftung, Berlin, Mar. 2019.
- [talk33] (*Invited Plenary Talk*) *Human vs. Nonhuman – The Need for Ethical Intelligent Systems*. Maria Sibylla Merian Centre Conviviality-Inequality in Latin America (Mecila) & Goethe-Institut São Paulo, Brazil, Invitation by FU Berlin Office in São Paulo, July 2019.
- [talk34] (*Invited Speaker*) *Ethisch-rechtliche Kontrolle autonomer Systeme – Machbar?* Dec 3-4, <https://cti.euroforum.de/ai-in-automotive/>. Artificial Intelligence in Automotive, Holiday Inn München, Dec. 2019.
- [talk35] (*Invited Talk*) *Ethisch-rechtliche Kontrolle von KI Systemen*. Oct 23, <http://www.ai-camp.de>. AI Camp Wolfsburg, organisiert von Weissenberg Group und IHK Lüneburg-Wolfsburg, Oct. 2019.
- [talk36] (*Invited*) *Consistent Rational Argumentation in Politics (CRAP)*. Nov 26-27. Forum Experiment!, Volkswagen-Stiftung, Herrenhausen Palace, Hannover, Nov. 2019.
- [talk37] (*Invited*) *Deontic Logic and Artificial Intelligence*. Faculty of Law, University of São Paulo, Brazil, Aug. 2019.
- [talk38] (*Invited*) *Ethisch Intelligente Systeme*. Symposium "Künstliche Intelligenz: Made in Germany" des Deutschen Zentrums für Luft- und Raumfahrt (DLR), Berlin, June 2019.
- [talk39] (*Invited*) *Higher-order automated theorem proving — Why has there been such a resistance?* ANDREI-60: Automating New-era Deductive Reasoning Event In Iberia, Tblisi, Georgia, May 2019.
- [talk40] (*Invited*) *On Universal Logical Reasoning and Gödel's Ontological Argument*. Center for Intelligent Systems and their Applications (CISA), Edinburgh University, School of Informatics, Scotland, June 2019.
- [talk41] (*Invited*) *Reasoning about Programs, Agents and Machine Ethics: A Meta-Logical Approach*. TU Vienna, Faculty of Informatics, Oct. 2019.

- [talk42] *(Invited) Studies in Computational Metaphysics & Computational (Pseudo-)Ethics*. University of Campinas (UNICAMP), Centre for Logic, Epistemology and the History of Science, Campinas, Brazil, July 2019.
- [talk43] *Ethisch Intelligente Systeme*. Tag der offenen Tür, Dahlem Center for Machine Learning and Robotics, FU Berlin, June 2019.
- [talk44] *Explicit Normative Reasoning and Machine Ethics*. Automated Reasoning: Challenges, Applications, Directions, Exemplary Achievements (ARCADE), Workshop at CADE-27, Natal, Brazil, Aug. 2019.
- [talk45] *KI und Robotik an der FU Berlin*. Kids Presentation for Kronach-Grundschule, FU Berlin, June 2019.
- [talk46] *What Kind of Ultrafilter is Gödel's God*. Kurt Gödel: Philosophical Views, Workshop at FU Berlin <http://christoph-benzmueller.de/2019-Goedel/>, Feb. 2019.
- [talk47] *(Invited Keynote) A Flexible Infrastructure for Normative Reasoning*. 14th International Conference, DEON 2018, Utrecht, The Netherlands, 3-6 July, 2018, July 2018. DOI: 10.13140/RG.2.2.27972.48007.
- [talk48] *(Invited Keynote) Can computers help to sharpen our understanding of ontological arguments?* 12th All India Students' Conference on Science and Spiritual Quest (AISSQ), IIT Bhubaneswar, India, Oct. 2018.
- [talk49] *(Invited Keynote) Experiments in Universal Logical Reasoning — How to utilise ATPs and SMT solvers for the exploration of axiom systems for category theory in free logic?* 16th International Workshop on Satisfiability Modulo Theories (SMT 2018), Oxford, UK, July 2018.
- [talk50] *(Invited Lecture) From Computational Metaphysics towards Computational (Pseudo-)Ethics*. Bath IMI Thematic Semester: Algorithms, Accountability and Ethics in Machine Learning, U Bath, UK, 2018.
- [talk51] *(Invited; celebration of Martin Davis' 90th Birthday) A Deontic Logic Reasoning Infrastructure*. Special Session on the History and Philosophy of Computing (HaPoC) at the Computability in Europe (CiE) conference, Aug. 2018.
- [talk52] *(Invited) Experiments in Universal Logical Reasoning — How to utilise ATPs and SMT solvers for the exploration of axiom systems for category theory in free logic?* Institut für Theoretische Informatik, LMU München, June 2018.
- [talk53] *(Invited) Studies in Computational Metaphysics and Computational (Pseudo-)Ethics*. Colloquium Cognitive Systems University of Ulm, Nov. 2018.
- [talk54] *Computational Hermeneutics: Using Computers to Interpret Arguments*. Second Chinese Conference on Logic and Argumentation (CLAR 2018), Hangzhou, China, June 2018.
- [talk55] *Some Reflections on a Computer-aided Theory Exploration Study in Category Theory*. 3rd Conference on Artificial Intelligence and Theorem Proving (AITP 2018), Aussois, France, 2018.
- [talk56] *(Invited Keynote) Computational Metaphysics: The Virtues of Formal Proofs Beyond Math*. 2nd CLE Colloquium for Philosophy and History of Formal Sciences (CLE4Science), University of Campinas, Brazil, 2017.
- [talk57] *(Invited Keynote) Recent Successes with a Meta-Logical Approach to Universal Logical Reasoning*. XX Brazilian Symposium on Formal Methods (SMBF), Recife, Brazil, 2017.
- [talk58] *(Invited Keynote) What has the Mechanisation of Category Theory in Common with Proving God's Existence?* 3. BMG Tag, Berliner Mathematische Gesellschaft e.V., Berlin, 2017.
- [talk59] *(Invited Public Presentation) Calculemus!: Analyse von Kurt Gödel's Gottesbeweis mit dem Computer*. UR-ANIA, Berlin, 2017.
- [talk60] *(Invited Tutorial) Automated Reasoning in Higher-order and Non-classical Logics*. Pontifícia Universidade Católica do Rio Grande do Sul (PUCRS), Porto Alegre, Brazil, 2017.
- [talk61] *(Invited Tutorial) Tutorial on Universal Logic Theorem Proving in HOL*. ILIAS group, University of Luxembourg, 2017.
- [talk62] *(Invited Tutorial) Universal Logical Reasoning via Semantical Embeddings in HOL*. 2nd CLE Colloquium for Philosophy and History of Formal Sciences (CLE4Science), University of Campinas, Brazil, 2017.
- [talk63] *(Invited) Automating Free Logic in HOL, with an Experimental Application in Category Theory*. Dagstuhl Seminar 17371: Deduction Beyond First-Order Logic, Dagstuhl, 2017.
- [talk64] *(Invited) Calculemus! — Progress in Universal Logic Reasoning and Computational Metaphysics*. Alpen-Adria Universität Klagenfurt, 2017.
- [talk65] *(Invited) Computational Metaphysics: The Virtues of Formal Computer Proofs Beyond Maths and Computer Science*. S-2: The Ubiquity of Computing: historical, philosophical issues—Commission for Computing HaPoC—25th International Congress of History of Science and Technology, Rio de Janeiro, Brazil, 2017.

- [talk66] *(Invited) Computational Metaphysics: The Virtues of Formal Proofs Beyond Math.* ILIAS Distinguished Lectures, University of Luxembourg, 2017.
- [talk67] *(Invited) Künstliche Intelligenz—Bemerkungen zur Historie und zu aktuellen Entwicklungen.* Innovationsregion Lausitz GmbH, Cottbus, 2017.
- [talk68] *(Invited) System Demonstration: Interactive and Automated Reasoning in Isabelle/HOL.* Workshop: Bettermarks und Mathematische Beweise, bettermarks GmbH, Berlin, 2017.
- [talk69] *(Invited) Universal Logic Reasoning via Shallow Semantical Embeddings.* Workshop on Rational Enterprise Architecture Logic and Reasoning (REAL), University of Luxembourg, 2017.
- [talk70] *(Invited) What has the Mechanisation of Category Theory in Common with Proving God's Existence?* Pontificia Universidade Católica do Rio Grande do Sul (PUCRS), 40 Years of Computer Science, 2017.
- [talk71] *Automating Emendations of the Ontological Argument in Intensional Higher-Order Modal Logic.* KI 2017 - 40th German Conference on Artificial Intelligence, 25-29 September 2017 in Dortmund, Germany, 2017.
- [talk72] *Davis-Putnam-Logemann-Loveland Algrithmus.* Alpen-Adria Universität Klagenfurt, 2017.
- [talk73] *Innovative Teaching of Computational Metaphysics.* Session on Innovative & Effective Teaching in History of Science, Technology, 25th International Congress of History of Science and Technology, Rio de Janeiro, Brazil, 2017.
- [talk74] *Universal Logic Theorem Proving via Semantical Embeddings in HOL.* International Workshop on Logic-Based Formalisms for Legal Reasoning (LBFLR 2017), 2017.
- [talk75] *(Invited Keynote) Künstliche Intelligenz—Wohin geht die Reise?* Shared Services and Outsourcing Woche (<http://www.sharedserviceswoche.de/mediacenter>), Berlin, 2016.
- [talk76] *(Invited Lecture Course) Computational Metaphysics.* Thematic trimester 'Current Issues in the Philosophy of Practice of Mathematics and Informatics', Centre International de Mathématiques et d'Informatique de Toulouse (CIMI), France, 2016.
- [talk77] *(Invited Panel) Erwachen der Roboter – lernende Maschinen und die Intelligenz der Zukunft.* Bundeszentrale für politische Bildung – bpb, Berlin, 2016.
- [talk78] *(Invited Tutorial) A Universal Logic Theorem Proving Approach.* Berkeley-Stanford Circle in Logic and Philosophy, San Francisco, USA, 2016.
- [talk79] *(Invited) A Success Story of Higher-Order Theorem Proving in Computational Metaphysics.* Logic Colloquium, University of California, Berkeley, USA, 2016.
- [talk80] *(Invited) Automatisierung von Gödel's Gottesbeweis im Computer.* Auticon GmbH, Berlin, 2016.
- [talk81] *(Invited) Computational Metaphysics.* Central Teaching Award Acceptance Speech at FU Berlin, 2016.
- [talk82] *(Invited) Computational Metaphysics: The Virtues of Formal Proofs Beyond Maths.* Colloquium of the Berlin Mathematical School (BMS Fridays), Berlin, 2016.
- [talk83] *(Invited) The Inconsistency in Gödel's Ontological Argument: An Application of Mathematical Proof Assistants in Metaphysics.* Mathematical Logic Seminar, Stanford University, USA, 2016.
- [talk84] *(Invited) Uniform Proofs via Shallow Semantic Embeddings?* Dagstuhl Seminar 15381 — Universality of Proofs, Dagstuhl, 2016.
- [talk85] *(Poster) The Inconsistency in Gödel's Ontological Argument: A Success Story for AI in Metaphysics.* Intl. Congress on Mathematical Software (ICMS 2016), 2016.
- [talk86] *An Object-Logic Explanation for the Inconsistency in Gödel's Ontological Theory.* KI 2016 - 39th German Conference on Artificial Intelligence, 26-30 September 2016 in Klagenfurt, Austria, 2016.
- [talk87] *An Object-Logic Explanation for the Inconsistency in Gödel's Ontological Theory.* 39th German Conference on Artificial Intelligence (KI), 2016.
- [talk88] *Automating Free Logic in Isabelle/HOL.* Intl. Congress on Mathematical Software (ICMS 2016), 2016.
- [talk89] *Axiomatizing Category Theory in Isabelle/HOL.* Deduktionstreffen, 26 September 2016 in Klagenfurt, Austria, 2016.
- [talk90] *Axiomatizing Category Theory in Free Logic.* Deduktionstreffen 2016, 2016.
- [talk91] *Einsatz von Theorembeweisern in der Lehre.* Hochschuldidaktik der Informatik: 7. Fachtagung des GI-Fachbereichs Informatik und Ausbildung/Didaktik der Informatik; 13.-14. September 2016 an der Universität Potsdam, 2016.
- [talk92] *Hands-on Higher-order Modal Logics in Isabelle/HOL.* UITP 2016, Coimbra, Portugal, 2016.

- [talk93] *The OEB Plenary Debate 2016*. The global, cross-sector conference, exhibition on technology supported learning and training (OEB), 2016.
- [talk94] *TPTP and Beyond: Representation of Quantified Non-Classical Logics*. ARQNL 2016, Coimbra, Portugal, 2016.
- [talk95] *Tutorial on Reasoning in Expressive Non-Classical Logics with Isabelle/HOL*. Second Global Conference on Artificial Intelligence (GCAI), Berlin, 2016.
- [talk96] *(Invited Keynote) Experiments in Computational Metaphysics*. 9th All India Students' Conference on Science and Spiritual Quest (AISSQ), IIT Kharagpur, India, 2015.
- [talk97] *(Invited Keynote) Gödel's Ontological Argument Revisited – Findings from a Computer-supported Analysis*. 1st World Congress on Logic and Religion, João Pessoa, Brazil, 2015.
- [talk98] *(Invited Keynote) On a (Quite) Universal Theorem Proving Approach and its Application to Metaphysics*. Tableaux 2015, Wroclaw, Poland, 2015.
- [talk99] *(Invited Lecture Course) Higher-Order Modal Logics*. Logic Summer School, ANU Canberra, Australia, 2015.
- [talk100] *(Invited Lecture Course) Higher-Order Modal Logics: Automation and Applications*. The 11th Reasoning Web Summer School, 2015.
- [talk101] *(Invited) "Gottesbeweis" reloaded — Analyzing Variants of the Ontological Argument with the Computer*. Lange Nacht der Wissenschaften, Berlin, Germany, 2015.
- [talk102] *(Invited) Experiments in Computational Metaphysics*. Computational Logic Seminar (MUGS), Stanford University, USA, 2015.
- [talk103] *(Invited) Experiments in Computational Metaphysics*. SRI International, Menlo Park, USA, 2015.
- [talk104] *(Invited) Higher-Order Proofs and Models – Examples from Meta-Logical Reasoning and Metaphysics*. Dagstuhl Seminar 15381 — Deduction: Models and Proofs, 2015.
- [talk105] *(Invited) Towards Computational Metaphysics*. Universität Leipzig, 2015.
- [talk106] *(Invited) Towards Computational Metaphysics — Bridging between Mathematical Logic, Artificial Intelligence and Philosophy*. Berlin Mathematical School, lecture series on 'Bridges between mathematics and its applications', Technical University Berlin, Germany, 2015.
- [talk107] *(Invited) Towards Computational Metaphysics — Techniques and Tools for Knowledge Representation and Reasoning in Expressive Ontologies*. Friedrich-Alexander-Universität, Erlangen-Nürnberg, Germany, 2015.
- [talk108] *Der ABox-Vervollständigungsverfahren für ALC*. Friedrich-Alexander-Universität, Erlangen-Nürnberg, Germany, 2015.
- [talk109] *Einführung in die Komplexitätsklassen P und NP*. Universität Leipzig, 2015.
- [talk110] *(Invited Keynote) On Logic Embeddings and Gödel's God*. 22nd International Workshop on Algebraic Development Techniques, Sinaia, Romania, 2014.
- [talk111] *(Invited Keynote) On Logic Embeddings and Gödel's God*. 21. Jahrestagung der GI-Fachgruppe 'Logik in der Informatik', University of Kassel, Germany, 2014.
- [talk112] *(Invited Tutorial) Higher-Order Automated Theorem Provers*. APPA Workshop at VSL'2014, Vienna, Austria, 2014.
- [talk113] *(Invited) Gödel's God on the Computer*. Informatikkolloquium, The University of Innsbruck, Austria, 2014.
- [talk114] *(Invited) Gödel's God on the Computer*. IT University Copenhagen, Denmark, 2014.
- [talk115] *(Invited) Kurt Gödel's Gottesbeweis auf dem Computer*. Lange Nacht der Wissenschaften, Berlin, Germany, 2014.
- [talk116] *(Invited) Kurt Gödel's Gottesbeweis auf dem Computer*. Fromme Professoren Marburg, Germany, 2014.
- [talk117] *Automating Gödel's Ontological Proof of God's Existence with Higher-order Automated Theorem Provers*. 21st European Conference on Artificial Intelligence (ECAI), Prague, Czech Republic, 2014.
- [talk118] *Gödel's Proof of God's Existence*. World Congress on the Square of Opposition VI, Vatican, 2014.
- [talk119] *Gödel's Unvollständigkeitssätze*. Freie Universität Berlin, Germany, 2014.
- [talk120] *HOL based First-order Modal Logic Provers*. ARQNL Workshop at VSL'2014, Vienna, Austria, 2014.
- [talk121] *(Invited Keynote) Gödel's God on the Computer*. The 10th International Workshop on the Implementation of Logics (IWIL 2013), Stellenbosch, South Africa, 2013.
- [talk122] *A Top-down Approach to Combining Logics*. 5th International Conference on Agents and Artificial Intelligence, Barcelona, Spain, 2013.

- [talk123] *Automated Consistency Checking of Expressive Ontologies — Beware of the Wrong Interpretation of Success!* The 5th International Workshop on Acquisition, Representation and Reasoning with Contextualized Knowledge (ARCOE-LogIC 2013), Corunna, Spain, 2013.
- [talk124] *Automating Quantified Conditional Logics in HOL*. 23rd International Joint Conference on Artificial Intelligence (IJCAI 2013), Beijing, China, 2013.
- [talk125] *Automating Quantified Conditional Logics is (relatively) Easy*. Deduktionstreffen 2013, Koblenz, Germany, 2013.
- [talk126] *Cut-free calculi for challenge logics in a lazy way*. International Workshop on Algebraic Logic in Computer Science (ALCS 2013), Stellenbosch, South Africa, 2013.
- [talk127] *Formalization, Mechanization and Automation of Gödel’s Proof of God’s Existence*. Informatik Kolloquium, Freie Universität Berlin, Germany, 2013.
- [talk128] *HOL based First-order Modal Logic Provers*. The 19th International Conference on Logic for Programming, Artificial Intelligence and Reasoning (LPAR 2013), Stellenbosch, South Africa, 2013.
- [talk129] *HOL based Universal Reasoning*. 4th World Congress and School on Universal Logic, Rio de Janeiro, Brazil, 2013.
- [talk130] *LEO-II version 1.5*. Third International Workshop on Proof Exchange for Theorem Proving (PxTP 2013), Lake Placid, NY, USA, 2013.
- [talk131] *The Watson System – An Overview*. Freie Universität Berlin, Germany, 2013.
- [talk132] *(Invited; retirement celebration of Peter Andrews) Utilizing Higher-order Automated Theorem Provers as Universal Logic Engines*. Carnegie Mellon University, USA, 2012.
- [talk133] *(Invited) Automating Expressive Classical and Non-Classical Logics with LEO-II, Computer Science Colloquium*. Computer Science Colloquium, Freie Universität Berlin, Germany, 2012.
- [talk134] *(Invited) Konzepte und Nutzen von Lambda-Ausdrücken in Java 8 (und Scala)*. Beuth Hochschule für Technik, Berlin, Germany, 2012.
- [talk135] *(Invited) LEO-II — Eine universelle Logikmaschine*. Beuth Hochschule für Technik, Berlin, Germany, 2012.
- [talk136] *(Invited) Utilizing Church’s Type Theory as a Universal Logic*. Collegium Logicum Lecture Series, Kurt Gödel Society, Vienna, Austria, 2012.
- [talk137] *Gödel’s Unvollständigkeitssätze*. Freie Universität Berlin, Germany, 2012.
- [talk138] *Implementing and Evaluating Provers for First-order Modal Logics*. European Conference on Artificial Intelligence (ECAI-2012), Montpellier, France, 2012.
- [talk139] *(Invited) Automating Expressive Non-classical Logics and their Combinations in Classical Higher Order Logic*. University of Potsdam, Germany, 2011.
- [talk140] *(Invited) Der Automatische Theorembeweiser LEO-II*. BMW Group, Munich, Germany, 2011.
- [talk141] *(Invited) Intelligente Werkzeuge zur Erhebung, Bereitstellung, Analyse und Kommunikation von diversifiziertem, personifiziertem, interoperablen semantischen Wissen*. Deutsches Institut für Wirtschaftsforschung, Berlin, Germany, 2011.
- [talk142] *(Invited) Mechanisierung und Automatisierung von Kombinationen klassischer und nichtklassischer Logiken in klassischer Logik höherer Stufe*. University of Hamburg, Germany, 2011.
- [talk143] *(Invited) Mechanization and Automation of Combinations of Classical and Non-Classical Logics in Classical Higher Order Logics*. Colloquium New Trends in Computational Logic, TU Dresden, Germany, 2011.
- [talk144] *Quantified Conditional Logics are Fragments of HOL*. The International Conference on Non-classical Modal and Predicate Logics Guangzhou, China, 2011.
- [talk145] *(Invited) Adaptive Assertion-Level Proofs*. The IJCAR 2010 Workshop on Evaluation Methods for Solvers and Quality Metrics for Solutions, Edinburgh, UK, 2010.
- [talk146] *(Invited) Combining Logics in Simple Type Theory (and an Application in Ontology Reasoning)*. SRI International, Menlo Park, USA, 2010.
- [talk147] *(Invited) Three presentations at Dagstuhl Seminar 10412 QSTRLib: A Benchmark Problem Repository for Qualitative Spatial and Temporal Reasoning, Dagstuhl, Germany, October 10-13, 2010: Reasoning within and about Combinations of Logics in Simple Type Theory (talk and system demonstration), Participant Introduction, and QSTRLib Use Case: Educational Question Answering on Spatial Configurations of Countries, States, and Cities*. Dagstuhl Seminar 10412: QSTRLib, Schloss Dagstuhl, Germany, 2010.

- [talk148] *(Invited) Winner Presentation: LEO-II.* CASC-J5, Fifth International Joint Conference on Automated Reasoning (IJCAR 2010), Edinburgh, UK, 2010.
- [talk149] *Combining Logics in Simple Type Theory.* 11th International Workshop on Computational Logic in Multi-Agent Systems (CLIMA XI), Lisbon, Portugal, 2010.
- [talk150] *Ontology Archaeology: Mining a Decade of Effort on the Suggested Upper Ontology.* The ECAI-10 Workshop on Automated Reasoning about Context and Ontology Evolution (ARCOE-10), Lisbon, Portugal, 2010.
- [talk151] *Progress in Automating Higher-Order Ontology Reasoning.* Workshop on Practical Aspects of Automated Reasoning (PAAR-2010), Edinburgh, UK, 2010.
- [talk152] *Reasoning with Embedded Formulas and Modalities in SUMO.* The ECAI-10 Workshop on Automated Reasoning about Context and Ontology Evolution (ARCOE-10), Lisbon, Portugal, 2010.
- [talk153] *Sigma: An Integrated Development Environment for Logical Theory Development.* The ECAI 2010 Workshop on Intelligent Engineering Techniques for Knowledge Bases (IKBET'2010), Lisbon, Portugal, 2010.
- [talk154] *Simple Type Theory as Framework for Combining Logics.* Contest presentation at the World Congress and School on Universal Logic III (UNILOG'2010), Lisbon, Portugal, 2010.
- [talk155] *Automating Access Control Logics in Simple Type Theory with LEO-II.* 24th IFIP International Information Security Conference, Pafos, Cyprus, 2009.
- [talk156] *Automating Quantified Multimodal Logics in HOL — My very first Region Connection Calculus Prover.* AAAI 2009 Spring Symposia, Stanford, USA, 2009.
- [talk157] *Granularity-Adaptive Proof Presentation (poster).* AIED, 2009.
- [talk158] *Handover of the Festschrift to Peter B. Andrews.* CADE-22, Montreal, Canada, 2009.
- [talk159] *(Invited) Automating Access Control Logics and Multimodal Logics in the Automatic Higher-Order Theorem Prover LEO-II.* Pure and Applied Logic Seminar, Carnegie Mellon University, Pittsburgh, USA, 2008.
- [talk160] *(Invited) Automating Access Control Logics and Multimodal Logics in the Automatic Higher-Order Theorem Prover LEO-II.* Kestrel Institute, Palo Alto, USA, 2008.
- [talk161] *(Invited) Exploring Properties of Multimodal Logics with the Cooperative Automatic Higher-Order Theorem Prover LEO-II.* SRI International, Menlo Park, USA, 2008.
- [talk162] *(Invited) LEO-II — A Cooperative Automatic Theorem Prover for Classical Higher-Order Logic.* Microsoft Research, Redmond, USA, 2008.
- [talk163] *(Invited) Tool Support for Formalized Mathematics: Cooperative Higher-Order Theorem Proving with LEO-II, Tutorial Dialogues on Proofs with the DIALOG demonstrator, and the PLATO/OMEGA Proof Assistant Plug-in for TeXmacs.* Formal Mathematics Seminar, University of Bonn, Germany, 2008.
- [talk164] *Exploring Properties of Normal Multimodal Logics in Simple Type Theory with LEO-II.* Deduktionstreffen, Saarbrücken, Germany, 2008.
- [talk165] *Exploring Properties of Normal Multimodal Logics in Simple Type Theory with LEO-II.* Automated Reasoning Group Lunch Talk, The University of Cambridge, UK, 2008.
- [talk166] *LEO-II - A Cooperative Automatic Theorem Prover for Classical Higher-Order Logic (System Description).* The 4th International Joint Conference on Automated Reasoning (IJCAR 2008), Sydney, Australia, 2008.
- [talk167] *LEO-II Demo.* ESHOL Workshop at the 4th International Joint Conference on Automated Reasoning (IJCAR 2008), Sydney, Australia, 2008.
- [talk168] *LEO-II, A Higher-Order Theorem Prover (poster).* VSI, 2008.
- [talk169] *Some Results of the LEO-II Project.* CIAO Workshop, TU Darmstadt, Germany, 2008.
- [talk170] *THF0 — The Core TPTP Language for Classical Higher-Order Logic.* The 4th International Joint Conference on Automated Reasoning (IJCAR 2008), Sydney, Australia, 2008.
- [talk171] *(Invited Lecture Course) Semantics of Higher-Order Logics.* IT University Copenhagen, Denmark, 2007.
- [talk172] *(Invited) Challenges for Automated Theorem Proving in Classical Higher Order Logics.* The University of Edinburgh, Scotland, 2007.
- [talk173] *(Invited) Challenges for Automated Theorem Proving in Classical Higher Order Logics.* University of St. Andrews, St. Andrews, Scotland, 2007.
- [talk174] *(Invited) Challenges for Automated Theorem Proving in Classical Higher Order Logics.* Heriot-Watt University, Edinburgh, Scotland, 2007.

- [talk175] *(Invited) Effiziente Automatisierung von Logik höherer Stufe—Realisierbarer Traum oder ewiger Albtraum?* Inaugural Lecture (Privatdozent) at Saarland University, Germany, 2007.
- [talk176] *Deep Inference for Automated Proof Tutoring (poster)*. KI, 2007.
- [talk177] *LEO-II, A Higher-Order Theorem Prover (poster)*. TPHOLs, 2007.
- [talk178] *Progress Report on LEO-II: An Automatic Theorem Prover for Higher-Order Logic*. TPHOLs, Kaiserslautern, Germany, 2007.
- [talk179] *Progress Report on LEO-II: An Automatic Theorem Prover for Higher-Order Logic*. Automated Reasoning Group Lunch Talk, The University of Cambridge, UK, 2007.
- [talk180] *Term Indexing for the LEO-II Prover (poster)*. Deduktionstreffen, 2007.
- [talk181] *The LEO-II Project*. Automated Reasoning Workshop, London, UK, 2007.
- [talk182] *The LEO-II Project*. Deduktionstreffen, Koblenz, Germany, 2007.
- [talk183] *The LEO-II Project*. Omega-Ultra-Textmacs Mini Workshop, Saarbrücken, Germany, 2007.
- [talk184] *The LEO-II Project (poster)*. Deduktionstreffen, 2007.
- [talk185] *The LEO-II Project (poster)*. University of Cambridge Project Poster, 2007.
- [talk186] *(Invited Lecture Course) Semantics of Higher-Order Logics*. ESSLLI 2006, Malaga, Spain, 2006.
- [talk187] *(Invited) Classical Higher-Order Logic — Semantics, Proof Theory and Automation*. University of Potsdam, Germany, 2006.
- [talk188] *(Invited) Classical Higher-Order Logic — Theory, Applications and Problems*. Saarland University (scientific habilitation talk), Germany, 2006.
- [talk189] *(Invited) Service Oriented Architectures for Mathematics Assistance Systems*. Fachhochschule Frankfurt am Main, Germany, 2006.
- [talk190] *Cut-Simulation in Impredicative Logics*. Third International Joint Conference on Automated Reasoning (IJCAR 2006), LNAI , Seattle, USA, 2006.
- [talk191] *Dialog mit einem Beweisassistenten in natürlicher Sprache*. Ringvorlesung, FR Informatik, Universität des Saarlandes, Germany, 2006.
- [talk192] *Granularity Judgments in Proof Tutoring (poster)*. KI, 2006.
- [talk193] *Judging Granularity for Automated Mathematics Teaching*. Short paper at LPAR 2006: 13th International Conference on Logic for Programming Artificial Intelligence and Reasoning, Pnom Penh, Cambodia, 2006.
- [talk194] *Term Indexing for the LEO-II Prover*. IWIL-6 workshop at LPAR 2006: The 6th International Workshop on the Implementation of Logics, Pnom Penh, Cambodia, 2006.
- [talk195] *Underspecification in Math-DIALOG*. C-Tag, SFB 378, Saarland University, Germany, 2006.
- [talk196] *(Invited) A Structured Set of Higher-Order Problems*. Dagstuhl Seminar 05431: Deduction and Applications, Schloss Dagstuhl, Germany, 2005.
- [talk197] *(Invited) Can a Higher-Order and a First-Order Theorem Prover Cooperate?* LORIA, Nancy, France, 2005.
- [talk198] *(Invited) Logik höherer Stufe: Ein geeignetes Fundament für die Mathematik und für Formale Methoden?* TU Darmstadt, Germany, 2005.
- [talk199] *(Invited) Three Approaches for Guiding the Cooperation of Mathematical Reasoning Systems: Proof Planning, Agent-based Reasoning, and Autometa Composition of Reasoning Web Service*. QSL Theme day: Integration of deductive tools. Nancy, France, 2005.
- [talk200] *Can a Higher-Order and a First-Order Theorem Prover Cooperate?* LPAR'04 Conference, Montevideo, Uruguay, 2005.
- [talk201] *Combining Proofs of Higher-Order and First-Order Automated Theorem Provers*. LPAR-05 Workshop: Empirically Successful Automated Reasoning in Higher-Order Logic (ESHOL), Montego Bay, Jamaica, 2005.
- [talk202] *Designing a Proof GUI for non-Experts: Evaluation of an Experiment*. UITP'05 Workshop (ETAPS Satellite Workshop), Edinburgh, Scotland, 2005.
- [talk203] *DIALOG (poster)*. Begehung SFB 378, 2005.
- [talk204] *Mathematical Domain Reasoning Tasks in Tutorial Natural Language Dialog on Proofs*. Theorema-Ultra-Omega-Workshop, Saarbrücken, Germany, 2005.
- [talk205] *Mathematical Domain Reasoning Tasks in Tutorial Natural Language Dialog on Proofs*. Dream Group Reunion, Edinburgh, UK, 2005.

- [talk206] *Mathematical Domain Reasoning Tasks in Tutorial Natural Language Dialog on Proofs*. Twentieth National Conference on Artificial Intelligence (AAAI-05), Pittsburgh, Pennsylvania, USA, 2005.
- [talk207] *New Directions in the OMEGA Project*. First Saarbrücken-Nancy Workshop on Higher-order Logic and Hybrid Logics, 2005.
- [talk208] *New Directions in the OMEGA Project*. CIAO'05 Workshop, Nottingham, UK, 2005.
- [talk209] *OMEGA (poster)*. Begehung SFB 378, 2005.
- [talk210] *System Description: LEO — A Resolution based Higher-Order Theorem Prover*. LPAR-05 Workshop: Empirically Successful Automated Reasoning in Higher-Order Logic (ESHOL), Montego Bay, Jamaica, 2005.
- [talk211] *(Invited) OMEGA: A Mathematical Assistance System*. Automated Reasoning Group, Cambridge University, Cambridge, UK, 2004.
- [talk212] *Agent-oriented Proof Planning*. Evaluation of the Collaborative Research Centre SFB378 Resource-adaptive Cognitive Processes, Saarbrücken, Germany, 2004.
- [talk213] *CALCULEMUS Quo Vadis?* Special Session at the IJCAR 2004 Workshop on Computer-Supported Mathematical Theory Development together with J. Siekmann, J. Calmet, and W. Windsteiger, Cork, Ireland, 2004.
- [talk214] *DIALOG: Natural Language-based Interaction with a Mathematical Assistance System*. Deduktionstreffen, Saarbrücken, Germany, 2004.
- [talk215] *DIALOG: Natural Language-based Interaction with a Mathematical Assistance System*. OMEGA talk series, Saarbrücken, Germany, 2004.
- [talk216] *OMEGA and DIALOG*. Workshop on Logic, Proofs, and Programs, Saarbrücken, Germany, 2004.
- [talk217] *Semantics and Automation of Higher-Order Logic*, Workshop on Logic, Proofs, and Programs, Nancy, France, 2004.
- [talk218] *(Invited) OMEGA — From Proof Planning towards Mathematical Knowledge Management*. MKM Symposium 2003, Edinburgh, Scotland, 2003.
- [talk219] *A New Framework for Reasoning Agents*. IJCAI-03 Workshop on Agents and Automated Reasoning, Acapulco, Mexico, 2003.
- [talk220] *Assertion Application in Theorem Proving and Proof Planning (poster)*. IJCAI-03 Poster Presentation, Acapulco, Mexico, 2003.
- [talk221] *Bemerkungen zur Semantik und Mechanisierung von Logik hoeherer Stufe*. Deduktionstreffen, Augsburg, Germany, 2003.
- [talk222] *CALCULEMUS - Systems for Integrated Deduction and Computation*. Mathematics on the Semantic Web, Eindhoven, The Netherlands, 2003.
- [talk223] *CALCULEMUS Midterm Review Report*. Midterm Review of the European Union Research Training Network CALCULEMUS, Saarbrücken, Germany, 2003.
- [talk224] *OMEGA*. Meeting in camera of the Special Research Centre SFB 378, Dagstuhl, Germany, 2003.
- [talk225] *OMEGA - Ein Assistenzsystem für die Mathematik*. Open day, Saarland University, Saarbrücken, Germany, 2003.
- [talk226] *Proof Development with OMEGA — Square root of 2 is Irrational*. Theorema-Omega'03 Workshop, Schloss Hagenberg, Austria, 2003.
- [talk227] *Saarland University Node Report*. Midterm Review of the European Union Research Training Network CALCULEMUS, Saarbrücken, Germany, 2003.
- [talk228] *The CALCULEMUS Research Training Network — A short Overview*. CALCULEMUS Symposium 2003, Rome, Italy, 2003.
- [talk229] *The CALCULEMUS Research Training Network — A short Overview*. First QPQ Workshop on Deductive Software (QPQ'03), CADE-19, Miami, Florida, USA, 2003.
- [talk230] *Tutorial Dialogs on Mathematical Proofs*. IJCAI-03 Workshop on Knowledge Representation and Automated Reasoning for E-Learning Systems, Acapulco, Mexico, 2003.
- [talk231] *(Invited Tutorial) From Natural Deduction to Sequent Calculus and back*. CALCULEMUS Autumn School 2002, Pisa, Italy, 2002.
- [talk232] *(Invited) Tutorial Dialog with a Mathematical Assistant System*. Computer Science Department, The University of Birmingham, UK, 2002.

- [talk233] *Agent based proof search with Indexed Formulas*. CALCULEMUS 2002, Marseille, France, 2002.
- [talk234] *Agent Based Theorem Proving (poster)*. AISB, 2002.
- [talk235] *Proof Development with OMEGA*. CADE-18, Copenhagen, Denmark, 2002.
- [talk236] *Proof Development with OMEGA: Sqrt(2) is irrational*. LPAR 2002, Tbilisi, Georgia, 2002.
- [talk237] *Reasoning Services in the MathWeb-SB for Symbolic Verification of Hybrid Systems*. VERIFY'02 Workshop at FLOC 2002, Copenhagen, Denmark, 2002.
- [talk238] *Ressource-Adaptive Proof Planning with OMEGA*. Meeting in camera of the Special Research Centre SFB 378, Wallerfangen, Germany, 2002.
- [talk239] *Tutorial Dialog with a Mathematical Assistant System*. Computer Science Department, The University of Birmingham, UK, 2002.
- [talk240] *Tutorial Dialog with a Mathematical Assistant System*. Meeting in camera of the Special Research Centre SFB 378, Wallerfangen, Germany, 2002.
- [talk241] *(Invited Keynote) An Agent-based Approach to Reasoning*. AISB'01 Convention Agents, Cognition in conjunction with 8th Workshop on Automated Reasoning: Bridging the Gap between Theory and Practice, University of York, UK, 2001.
- [talk242] *(Invited) Agent-oriented Reasoning with O-ANTS*. Pure and Applied Logic Seminar, Carnegie Mellon University, Pittsburgh, PA, USA, 2001.
- [talk243] *(Invited) Agent-oriented Reasoning with O-ANTS*. Department of Computer Science, Cornell University, Ithaca, NY, USA, 2001.
- [talk244] *(Invited) Concurrent Resource Guided Deduction*. Theoretical Computer Science Seminar, School of Computer Science, The University of Birmingham, Birmingham, UK, 2001.
- [talk245] *(Invited) Panel member of the IJCAR 2001 Workshop Future Directions in Automated Reasoning — Problems and Ideas for a New Millennium*. IJCAR 2001, Siena, Italy, 2001.
- [talk246] *A lost proof*. TPHOLS 2001, Edinburgh, Scotland, 2001.
- [talk247] *A Lost Proof (poster)*. TPHOLS, 2001.
- [talk248] *Agent-oriented theorem proving and proof planning in OMEGA*. C++ days of SFB 378 Resource adaptive cognitive processes, Mertesdorf, Germany, 2001.
- [talk249] *Agents in OMEGA*. Meeting in camera of the OMEGA group, Saarbrücken, Germany, 2001.
- [talk250] *An Agent-oriented approach to reasoning*. CALCULEMUS Workshop 2001, Siena, Italy, 2001.
- [talk251] *DIALOG (poster)*. Begehung SFB 378, 2001.
- [talk252] *Distributed Assertion Retrieval*. First International Workshop on Mathematical Knowledge Management RISC-Linz, Schloss Hagenberg, Austria, 2001.
- [talk253] *Experiments with an Agent-oriented Reasoning System*. KI 2001, Wien, Austria, 2001.
- [talk254] *OMEGA — Ressourcenadaptives Beweisplanen*. Meeting in camera of the Special Research Division SFB378, Schloss Dagstuhl, Germany, 2001.
- [talk255] *OMEGA (poster)*. Begehung SFB 378, 2001.
- [talk256] *Proof Transformation and Expansion with a Parameterizable Inference Machine (poster)*. AISB, 2001.
- [talk257] *Tutorielle Kommunikation für ein mathematisches Assistenzsystem*. Meeting in camera of the Special Research Division SFB378, Schloss Dagstuhl, Germany, 2001.
- [talk258] *(Invited) OANTS — An Open Approach at Combining Interactive and Automated Theorem Proving*. Centre for Agent Research and Development CARD, Department of Computer Science, Manchester Metropolitan University, UK, 2000.
- [talk259] *(Invited) OMEGA, MATHWEB and Friends*. Department of Artificial Intelligence, The University of Edinburgh, Edinburgh, Scotland, 2000.
- [talk260] *(Invited) Resource Guided Concurrent Deduction with O-ANTS*. Department of Artificial Intelligence, The University of Edinburgh, Edinburgh, Scotland, 2000.
- [talk261] *(Invited) Towards Agent based Theorem Proving and Proof Planning in OMEGA*. Department of Computer Science, The University of York, UK, 2000.
- [talk262] *Agent based proof planning with O-ANTS*. Systemdemonstration at the Deduktionstreffen, Saarland University, Saarbrücken, Germany, 2000.

- [talk263] *Eine Übersicht zur AG Siekmann*. Deduktionstreffen, Saarland University, Saarbrücken, Germany, 2000.
- [talk264] *OANTS — An open approach at combining Interactive and Automated Theorem Proving*. CALCULEMUS Symposium 2000, St. Andrews, Scotland, 2000.
- [talk265] *Proof Planning based on a Multi Agent Architecture? — ¿Proof Planning based on a Multi Agent Architecture?* 9th CLAM - INKA - OMRS Workshop (CIAO), Schloss Dagstuhl, Germany, 2000.
- [talk266] *Resource Guided Concurrent Deduction*. Short talk and poster presentation at Automated Reasoning Workshop 2000, King's College, London, UK, 2000.
- [talk267] *Resource Guided Concurrent Deduction (poster)*. AISB, 2000.
- [talk268] *System demonstration: OMEGA, O-ANTS, and LEO*. Department of Computer Science, The University of York, York, UK, 2000.
- [talk269] *Towards agent based proof planning*. Deduktionstreffen, Saarland University, Saarbrücken, Germany, 2000.
- [talk270] *(Invited) A two layered Agent Approach for Guiding Interactive Proofs*. Theoretical Computer Science Seminar, School of Computer Science, The University of Birmingham, UK, 1999.
- [talk271] *(Invited) Extensional Higher Order Resolution, Paramodulation and RUE-Resolution*. Theoretical Computer Science Seminar, School of Computer Science, The University of Birmingham, UK, 1999.
- [talk272] *Agent Based Mathematical Reasoning*. CALCULEMUS Workshop, Trento, Italy, 1999.
- [talk273] *Agent based Proof Planning (poster)*. Poster at the 6th Workshop on Automated Reasoning: Bridging the Gap between Theory and Practice; in conjunction with AISB'99 Convention, Edinburgh, Scotland, 1999.
- [talk274] *Critical Agents Supporting Interactive Theorem Proving*. 9th Portuguese Conference on Artificial Intelligence, Evora, Portugal, 1999.
- [talk275] *Extensional Higher-Order Paramodulation and RUE-Resolution*. 16th Conference on Automated Deduction, Trento, Italy, 1999.
- [talk276] *Gleichheit und Extensionalität im automatischen Beweisen in Logik höherer Stufe*. Promotionskolloquium, Saarbrücken, Germany, 1999.
- [talk277] *Ist KI eine empirische Wissenschaft?* SAG-WAS der AG Siekmann, Schloss Dagstuhl, Germany, 1999.
- [talk278] *On Automated Higher-Theorem Proving and Henkin Completeness*. Forschungskolloquium der Studienstiftung des Deutschen Volkes, Berlin, Germany, 1999.
- [talk279] *Ressourcenadaptive Vorschlagsagenten im Interaktiven Beweisen*. Kollegientag im Rahmen der Herbstschule Kognitionswissenschaft, Saarbrücken, Germany, 1999.
- [talk280] *Towards Fine-Grained Proof Planning with Critical Agents (poster)*. AISB, 1999.
- [talk281] *Constraint Solving in Logic Programming and Automated Theorem Proving: a comparison*. 8th International Conference on Artificial Intelligence: Methodology, Systems, Applications (AIMSA'98), Sozopol, Bulgaria, 1998.
- [talk282] *Exploiting past proof experience + Experiments in the Automatic Selection of Problem-solving Strategies*. SAG-WAS'98 der AG Siekmann, Schloss Dagstuhl, Germany, 1998.
- [talk283] *Integrating TPS with OMEGA*. Workshop Inference Mechanisms in Knowledge-Based Systems: Theory and Applications, KI'98, Bremen, Germany, 1998.
- [talk284] *Integrating TPS with OMEGA*. Oberseminar AG Siekmann, Saarland University, Saarbrücken, Germany, 1998.
- [talk285] *LEO — A Higher Order Theorem Prover*. CADE, 1998.
- [talk286] *LEO — A Higher-Order Theorem Prover*. The 15th International Conference on Automated Deduction, Lindau, Germany, 1998.
- [talk287] *Model Existence for Higher-Order Logic*. Oberseminar AG Siekmann, Saarland University, Saarbrücken, Germany, 1998.
- [talk288] *System Demonstration: Integrating TPS with OMEGA*. Workshop Inference Mechanisms in Knowledge-Based Systems: Theory and Applications, KI'98, Bremen, Germany, 1998.
- [talk289] *System Demonstration: LEO — A Higher-Order Theorem Prover*. The 15th International Conference on Automated Deduction, Lindau, Germany, 1998.
- [talk290] *System Demonstration: OMEGA — A mathematical Assistant*. Evaluation of the SFB 378, Max-Planck Institute für Informatik (MPI), Saarbrücken, Germany, 1998.
- [talk291] *System Demonstration: OMEGA — a Mathematical Assistant*. Informatikforum '98 (Max-Planck-Institut für Informatik, Deutsches Forschungszentrum für Künstliche Intelligenz und Fachbereich Informatik der Uni des Saarlandes) Saarbrücken, Germany, 1998.

- [talk292] *System Demonstration: OMEGA — a Mathematical Assistant*. Deduktionstreffen, Munich, Germany, 1998.
- [talk293] *System Demonstration: OMEGA — a Mathematical Assistant*. 8th International Conference on Artificial Intelligence: Methodology, Systems, Applications (AIMSA'98), Sozopol, Bulgaria, 1998.
- [talk294] *Embedding Extensionality in Higher-Order Resolution*. Oberseminar AG Siekmann, Saarland University, Saarbrücken, Germany, 1997.
- [talk295] *Equalizing terms by Difference Reduction and Abstraction*. Automated theorem proving seminar, Department of Mathematics, Carnegie Mellon University, Pittsburgh, USA, 1997.
- [talk296] *Extensionale Resolution höherer Stufe*. Forschungskolloquium der Studienstiftung des Deutschen Volkes, Kochl am See, Germany, 1997.
- [talk297] *Extensionale Resolution höherer Stufe*. Deduktionstreffen, Schloss Dagstuhl, Germany, 1997.
- [talk298] *LEO — Towards Higher-Order Resolution*. Automated theorem proving seminar, Department of Mathematics, Carnegie Mellon University, Pittsburgh, USA, 1997.
- [talk299] *Ein kategorieller Kalkül ebener und räumlicher Netze*. Sommerakademie der Studienstiftung des Deutschen Volkes, St. Johann, Südtirol, Italy, 1996.
- [talk300] *Higher-Order Resolution and Extensionality*. Oberseminar AG Siekmann, Saarland University, Saarbrücken, Germany, 1996.
- [talk301] *HO-Differenzreduzierung*. Oberseminar AG Siekmann, Saarland University, Saarbrücken, Germany, 1995.
- [talk302] *Towards Higher-Order Theorem Proving with equality*. Deduktionstreffen, Saarland University, Saarbrücken, Germany, 1995.