Correctness by Construction: Publications

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[107] [**Japan Advanced Institute of Science and Technology**] Katsuhiko Sano, Talk: *Topological semantics for Visser's propositional logics*, Università degli Studi di Genova, Genova, Italy, 24–27 March 2014. International workshop *Correctness by Construction 2014* (CORCON 2014). URL `http://corcon2014.files.wordpress.com/2014/05/sano.pdf`

[108] [**Japan Advanced Institute of Science and Technology**] Satoshi Tojo, Talk: *Who knows what at which time? — from viewpoint of dynamic epistemic logic*, Università degli Studi di Genova, Genova, Italy, 24–27 March 2014. International workshop *Correctness by Construction 2014* (CORCON 2014). URL `http://corcon2014.files.wordpress.com/2014/04/tojo.pdf`

[109] [**Japan Advanced Institute of Science and Technology**] Keita Yokoyama, Talk: *The strength of Ramsey's theorem from several different*

view points, Università degli Studi di Genova, Genova, Italy, 24–27 March 2014. International workshop *Correctness by Construction 2014* (CORCON 2014). URL `http://corcon2014.files.wordpress.com/2014/04/yokoyama.pdf`

[110] [**University of Canterbury**] Douglas S. Bridges, Seminar: *Morse set theory as a foundation for constructive mathematics*, Ludwig-Maximilians Universität, München, Germany, 2014

[111] [**University of Canterbury**] Douglas S. Bridges, Seminar: *Morse set theory as a foundation for constructive mathematics*, Stockholms Universitet, Stockholms, Sweden, 2014

[112] [**University of Canterbury**] Douglas S. Bridges, Seminar: *Operators, singly, in bunches, and constructively*, Ludwig-Maximilians Universität, München, Germany, 4 June 2014

[113] [**University of Canterbury**] Maarten McKubre-Jordens, Seminar: *Analysis of three different flavours. a story of examples, counterexamples, and viewpoints*, Ludwig-Maximilians Universität, München, Germany, 28 May 2014

[114] [**Australian National University**] Dirk Pattinson, Seminar: *Continuous functions on non-wellfounded types*, Ludwig-Maximilians Universität, München, Germany, 9 July 2014

[115] [**Hankyong National University**] Gyesik Lee, Talk: *The big five systems of reverse mathematics and their computational interpretation*, Università degli Studi di Genova, Genova, Italy, 24–27 March 2014. International workshop *Correctness by Construction 2014* (CORCON 2014). URL `http://corcon2014.files.wordpress.com/2014/04/lee.pdf`

[116] [**Kyoto University—Associated partner**] Hideki Tsuiki, Talk: *Dyadic subbases derived from dynamical systems*, Università degli Studi di Genova, Genova, Italy, 24–27 March 2014. International workshop *Correctness by Construction 2014* (CORCON 2014)

[117] [**External contributor**] Gianluigi Bellin and Alessandro Menti, Talk: *Bi-intuitionism as dialogue chirality*, Università degli Studi di Genova, Genova, Italy, 24–27 March 2014. International workshop *Correctness by Construction 2014* (CORCON 2014). Authors from Università degli Studi di Verona, Verona, Italy. URL `http://corcon2014.files.wordpress.com/2014/03/bellinmenti.pdf`

[118] [**University of Leeds, The Institute of Mathematical Sciences Chennai Society**] Olaf Beyersdorff, Leroy Chew, and Karteek Sreenivasaiah, Talk: *A game characterisation of tree-like Q-resolution size*, 9^{th} International Conference on Language and Automata Theory and Applications, Nice, France, 2–6 March 2015

[119] [**University of Leeds**] Olaf Beyersdorff, Invited talk: *Lower bounds: From circuits to QBF proof systems*, Dagstuhl Seminar "Circuits, Logic and Games", Schloss Dagstuhl, Germany, September 2015

[120] [**University of Leeds**] Olaf Beyersdorff, Lecture: *Proof complexity*, European Summer School of Logic, Language and Information, ESSLLI 2015, Barcelona, Spain, August 2015

[121] [**University of Leeds**] Olaf Beyersdorff, Invited talk: *Proof complexity*, Indo-UK workshop on Computational Complexity Theory, Chennai, India, January 2015

[122] [**University of Leeds**] Olaf Beyersdorff, Invited talk: *QBF proof complexity*, 16^{th} International Workshop on Logic and Computational Complexity (LCC'15), Kyoto, Japan, July 2015

[123] [**University of Leeds**] Olaf Beyersdorff, Invited talk: *QBF proof complexity*, International Workshop on Quantification (QUANTIFY'15), Berlin, Germany, August 2015

[124] [**University of Leeds**] Olaf Beyersdorff, Invited talk: *QBF proofs*, Dagstuhl Seminar "Theory and Practice of SAT Solving", Schloss Dagstuhl, Germany, April 2015

[125] [**University of Leeds**] Olaf Beyersdorff, Leroy Chew, and Mikoláš Janota, Talk: *Proof complexity of resolution-based QBF calculi*, 32^{nd} International Symposium on Theoretical Aspects of Computer Science, Munich, Germany, 4–7 March 2015

[126] [**Università degli Studi dell'Insubria**] Marco Benini, Invited talk: *Numerical analysis and epistemology of information*, workshop Philosophical Aspects of Computer Science, European Centre for Living Technology, University "Ca' Foscari", Venice, Italy, 6 March 2015

[127] [**Università degli Studi dell'Insubria**] Marco Benini, Seminar: *Point-free foundation of mathematics*, Logic seminar at the Yonsei University, Seoul, Republic of Korea, 21 July 2015

[128] [**Università degli Studi dell'Insubria**] Marco Benini, Invited talk: *Proof-theoretic semantics: Point-free meaning of first-order systems*, Trends in Proof Theory workshop at Jahrestagung der Deutschen Mathematiker-Vereinigung, Hamburg, Germany, 20–21 September 2015

[129] [**Università degli Studi dell'Insubria**] Marco Benini, Invited talk: *Well quasi orders in a categorical setting*, Well-quasiorderings: From Theory to Applications, symposium at Jahrestagung der Deutschen Mathematiker-Vereinigung, Hamburg, Germany, 21–25 September 2015

[130] [**Università degli Studi di Padova**] Maria Emilia Maietti, Talk: *Why developing mathematics in a two-level foundation*, Workshop on Mathematical Logic and Its Applications, at , Japan Advanced Institute of Science and Technology, Nomi, Japan, 12 March 2015

[131] [**Università degli Studi di Padova**] Maria Emilia Maietti, Seminar: *Why developing mathematics in a two-level foundation*, Research Institute for Mathematical Sciences, Kyoto University, Kyoto, Japan, 13 March 2015

[132] [**Università degli Studi di Padova**] Samuele Maschio, Talk: *Consistency of the minimalist foundation with Church thesis*, Constructivism and Computability, JAIST Logic Workshop Series, Kanazawa, Japan, 3 March 2015

[133] [**Università degli Studi di Padova**] Giovanni Sambin, Seminar: *A new foundation of constructive mathematics 50 years after Bishop's FCA*, Research Institute for Mathematical Sciences, Kyoto University, Kyoto, Japan, 13 March 2015

[134] [**Università degli Studi di Padova**] Giovanni Sambin, Seminar: *Realizability interpretation of topology*, National Institute of Informatics, Tokyo, Japan, 23 March 2015

[135] [**Università degli Studi di Padova**] Giovanni Sambin, Talk: *A single system for a plurality of logics*, Workshop on Logic and Philosophy of Logic, Keio University, Tokyo, Japan, 19 March 2015

[136] [**Università degli Studi di Padova**] Giovanni Sambin, Talk: *A view on constructive mathematics (almost) 50 years after Bishop's FCA*, Constructivism and Computability, JAIST Logic Workshop Series, Kanazawa, Japan, 2 March 2015

[137] [**The Institute of Mathematical Sciences Chennai Society**] Anil Shukla, Talk: *Are short proofs narrow? QBF resolution is not simple*, 33$^{\text{rd}}$ Symposium on Theoretical Aspects of Computer Science, STACS, Orléans, France, 17–20 February 2016

Other Publications

[138] [**Swansea University, Universität Siegen**] Ulrich Berger and Dieter Spreen, *A coinductive approach to computing with compact sets*. In preparation

[139] [**University of Leeds, Università degli Studi di Padova**] Davide Rinaldi, Peter Schuster, and Giovanni Sambin, *The basic Zariski topology*, 2014. Submitted

[140] [**University of Leeds, The Institute of Mathematical Sciences Chennai Society**] Olaf Beyersdorff, Leroy Chew, and Karteek Sreenivasaiah, *A game characterisation of tree-like Q-resolution size*, *Tech. Rep. 131*, Electronic Colloquium on Computational Complexity, 2014

[141] [**University of Leeds**] Olaf Beyersdorff, Leroy Chew, and Mikoláš Janota, *On unification of QBF resolution-based calculi*, *Tech. Rep. 36*, Electronic Colloquium on Computational Complexity, 2014. Revision 1

[142] [**University of Leeds**] Olaf Beyersdorff, Leroy Chew, and Mikoláš Janota, *Proof complexity of resolution-based QBF calculi*, *Tech. Rep. 120*, Electronic Colloquium on Computational Complexity, 2014

[143] [**Swansea University**] Ulrich Berger, Andrew Lawrence, Fredrik Nordvall Forsberg, and Monika Seisenberger, *Extracting verified decision procedures: DPLL and Resolution*, *Tech. rep.*, arXiv.org, 2014. URL `http://arxiv.org/abs/1502.02131`

[144] [**Università degli Studi dell'Insubria**] Marco Benini, *Cartesian closed categories are distributive*, *Tech. rep.*, arXiv.org, 2014. URL `http://arxiv.org/abs/1406.0961`

[145] [**Università degli Studi dell'Insubria**] Marco Benini, *Review of* Homotopy Type Theory. Univalent Foundations of Mathematics, Zentralblatt MATH, 2014. URL `https://www.zbmath.org/?q=an:06303354`

[146] [**Università degli Studi dell'Insubria**] Marco Benini, *A simplified definition of logically distributive categories*, *Tech. rep.*, arXiv.org, 2014. URL `http://arxiv.org/abs/1406.1251`

[147] [**Università degli Studi di Genova**] Giulia Frosoni, *Conuclear images of substructural logics*, 2014. Submitted to Mathematical Logic Quarterly

[148] [**Università degli Studi di Genova**] Ruggero Pagnan, *Concrete fibrations*, 2014. Submitted to Notre Dame Journal of Formal Logic

[149] [**Università degli Studi di Genova**] Ruggero Pagnan, *On the local versus global structural behavior of logic*, 2014. Submitted to Bulletin of Symbolic Logic

[150] [**University of Leeds, Carnegie Mellon University**] Steve Awodey, Nicola Gambino, and Kristina Sojakova, *Homotopy-initial algebras in type theory*, *Tech. rep.*, arXiv.org, 2015. URL `http://arxiv.org/abs/1504.05531`

[151] [**University of Leeds**] Nicola Gambino and André Joyal, *On operads, bimodules and analytic functors*, *Tech. rep.*, arXiv.org, 2015. URL `http://arxiv.org/abs/1405.7270`

[152] [**University of Leeds**] Nicola Gambino and Christian Sattler, *Uniform fibrations and the Frobenius condition*, *Tech. rep.*, arXiv.org, 2015. URL `http://arxiv.org/abs/1510.00669`

[153] [**University of Leeds**] Davide Rinaldi and Peter Schuster, *A universal Krull–Lindenbaum theorem*, 2015. Submitted

[154] [**University of Leeds**] Jeroen Van der Meeren, Michael Rathjen, and Andreas Weiermann, *An order-theoretic characterization of the Howard-Bachmann-hierarchy*, *Tech. rep.*, arXiv.org, 2015. URL `http://arxiv.org/abs/1411.4481`

[155] [**Università degli Studi di Padova**] Francesco Ciraulo and Steve Vickers, *Positivity relations on a locale*, 2015 to appear

[156] [**University of Leeds, Università degli Studi di Padova**] Francesco Ciraulo, Davide Rinaldi, and Peter Schuster, *Lindenbaum's lemma via open induction*, 2016 to appear

[157] [**University of Leeds**] Nicola Gambino and André Joyal, *On operads, bimodules and analytic functors*, 2016 to appear

[158] [**University of Leeds**] Michael Rathjen, *Remarks on Barr's theorem: Proofs in geometric theories*, 2016 to appear

[159] [**Swansea University, Ludwig-Maximilians Universität, Kyoto University—Associated partner**] Ulrich Berger, Kenji Miyamoto, Helmut Schwichtenberg, and Hideki Tsuiki, *Logic for Gray-code computation*, 2016 to appear

[160] [**Swansea University, Ludwig-Maximilians Universität**] Helmut Schwichtenberg, Monika Seisenberger, and Franziskus Wiesnet, *Higman's lemma and its computational content*, 2016 to appear

[161] [**Stockholms Universitet, University of Canterbury**] Douglas S. Bridges, Matthew Hendtlass, and Erik Palmgren, *A constructive examination of rectifiability*, 2016 to appear

[162] [**Stockholms Universitet, University of Canterbury**] Maarten McKubre-Jordens, Peter LeFanu Lumsdaine, and Hakôn Robbestad-Gylterud, *Proof normalization and paradoxes in type theory*, 2016 to appear

[163] [**Ludwig-Maximilians Universität, University of Canterbury**] Maarten McKubre-Jordens and Iosif Petrakis, *Constructive concepts of continuity*, 2016 to appear

[164] [**Ludwig-Maximilians Universität**] Iosif Petrakis, *Limit spaces with approximations*, 2016 to appear

[165] [**Università degli Studi dell'Insubria**] Marco Benini, *Proof-oriented categorical semantics*, 2016 to appear

[166] [**Università degli Studi di Padova**] Francesco Ciraulo and Giovanni Sambin, *Reducibility, a constructive dual to spatiality*, 2016 to appear

[167] [**Università degli Studi di Padova**] Maria Emilia Maietti and Giuseppe Rosolini, *Relating quotient completions via categorical logic*, 2016 to appear

[168] [**Università degli Studi di Padova**] Giovanni Sambin, *Matematica costruttiva*, 2016 to appear

[169] [**Japan Advanced Institute of Science and Technology, Ludwig-Maximilians Universität**] Hajime Ishihara and Helmut Schwichtenberg, *Embedding classical in minimal implicational logic*, 2016 to appear. Mathematical Logic Quarterly

[170] [**University of Canterbury**] Douglas S. Bridges, *Apartness spaces and uniform neighbourhood structures*, 2016 to appear

[171] [**University of Canterbury**] Douglas S. Bridges, *The continuum hypothesis implies excluded middle*, 2016 to appear

[172] [**University of Canterbury**] Douglas S. Bridges and R.A. Alps, *Morse set theory as a foundation for constructive mathematics*, 2016 to appear

[173] [**University of Canterbury**] Douglas S. Bridges, James E. Dent, Dent, and Maarten McKubre-Jordens, *Zero stability in constructive analysis*, 2016 to appear

[174] [**University of Canterbury**] Hannes Diener and Matthew Hendtlass, *Bishop's lemma*, 2016 to appear

[175] [**University of Canterbury**] Matthew Hendtlass, *Topological models of IZF*, 2016 to appear

[176] [**University of Canterbury**] Matthew Hendtlass, Vasco Brattka, and A.P. Kreuzer, *On the uniform computational content of computability theory*, 2016 to appear

[177] [**University of Canterbury**] Matthew Hendtlass, Vasco Brattka, and A.P. Kreuzer, *On the uniform computational content of the baire category theorem*, 2016 to appear