Logic Colloquium 2023

European Summer Meeting
of the Association for Symbolic Logic

University of Milan, Italy

5 JUNE – 9 JUNE

SPECIAL SESSIONS

Applied proof theory
organized by B. Dinis and T. Powell

Computability
organized by V. Brattka and K. Lange

Logic and Computation
organized by S. Buss and L. Kolodziejczyk

Logic and Philosophy
organized by L. Crosilla and A. M. Klev

Model theory
organized by J. Freitag and M. Hils

Set theory
organized by O. Ben-Neria and S. Müller

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University of Warwick, UK

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Einstein Institute of Mathematics
Hebrew University of Jerusalem, Israel

Floris van Doorn
Mathematics Department
Université Paris-Saclay, France

www.lc2023.unimi.it

Logic Colloquium

Sergei Artemov,Anil Nerode

Logic Colloquium:

   Logic Colloquium 2005 Costas Dimitracopoulos,Ludomir Newelski,Dag Normann,John R. Steel,2007-12-03 The Annual European Meeting of the Association for Symbolic Logic generally known as the Logic Colloquium is the most prestigious annual meeting in the field Many of the papers presented there are invited surveys of developments and the rest of the papers are chosen to complement the invited talks This 2007 volume includes surveys tutorials and selected research papers from the 2005 meeting Highlights include three papers on different aspects of connections between model theory and algebra a survey of major advances in combinatorial set theory a tutorial on proof theory and modal logic and a description of Bernay s philosophy of mathematics   *Logic Colloquium 2007* Françoise Delon,Ulrich Kohlenbach,Penelope Maddy,Frank Stephan,2010-06-07 The Annual European Meeting of the Association for Symbolic Logic also known as the Logic Colloquium is among the most prestigious annual meetings in the field The current volume Logic Colloquium 2007 with contributions from plenary speakers and selected special session speakers contains both expository and research papers by some of the best logicians in the world This volume covers many areas of contemporary logic model theory proof theory set theory and computer science as well as philosophical logic including tutorials on cardinal arithmetic on Pillay s conjecture and on automatic structures This volume will be invaluable for experts as well as those interested in an overview of central contemporary themes in mathematical logic   *Logic Colloquium '86* F.R. Drake,J.K. Truss,1987-11-01 The result of the European Summer Meeting of the Association for Symbolic Logic this volume gives an overview of the latest developments in most of the major fields of logic being actively pursued today Important new developments in the applications of logic in computer science are presented Other areas examined include model theory set theory recursion theory proof theory and the history of logic This volume contains the texts of ten of the invited lectures and six of the contributed papers   *Logic Colloquium '88* R. Ferro,C. Bonotto,S. Valentini,A. Zanardo,1989-08-04 The result of the European Summer Meeting of the Association for Symbolic Logic this volume gives an overview of the latest developments in most of the major fields of logic being actively pursued today As well as selected papers the two panel discussions are also included on Trends in Logic and The Teaching of Logic   Logic Colloquium R. Parikh,1975-05-20   **Logic Colloquium '96** Jesus M. Larrazabal,Daniel Lascar,Grigori Mints,1998-07-16 The 1996 European Summer Meeting of the Association of Symbolic Logic was held held the University of the Basque Country at Donostia San Se bastian Spain on July 9 15 1996 It was organised by the Institute for Logic Cognition Language and Information ILCLI and the Department of Logic and Philosophy of Sciences of the University of the Basque Coun try It was supported by the University of Pais Vasco Euskal Herriko Unib ertsitatea the Ministerio de Education y Ciencia DGCYT Hezkuntza Saila Eusko Jaurlaritza Gipuzkoako Foru Aldundia and Kuxta Fun dazioa The main topics of the meeting were Model Theory Proof Theory Re cursion and Complexity Theory Models of Arithmetic Logic for Artifi cial Intelligence Formal Semantics of Natural Language and Philosophy of Contemporary Logic The Program

Committee consisted of K Ambos Spies Heidelberg J L Balcazar Barcelona J E Fenstad Oslo D Israel Stanford H Kamp Stuttgart R Kaye Birmingham J M Larrazabal San Sebastian D Lascar Paris chairman A Marcja Firenze G Mints Stanford M Otero Madrid S Ronchi della Rocca Torino K Segerberg Uppsala and L Vega Madrid The organizing Committee consisted of X Arrazola San Sebastian A Arrieta San Sebastian R Beneyeto Valencia B Carrascal San Se bastian K Korta San Sebastian J M Larrazabal San Sebastian chair man J C Martinez Barcelona J M Mendez Salamanca F Migura Victoria and J Perez Victoria

LOGIC COLLOQUIUM '69 Lev D. Beklemishev,2000-04-01 LOGIC COLLOQUIUM 69 **Reflections on the Foundations of Mathematics** Wilfried Sieg,Richard Sommer,Carolyn Talcott,2017-03-30 Since their inception the Perspectives in Logic and Lecture Notes in Logic series have published seminal works by leading logicians Many of the original books in the series have been unavailable for years but they are now in print once again This volume the fifteenth publication in the Lecture Notes in Logic series collects papers presented at the symposium Reflections on the Foundations of Mathematics held in celebration of Solomon Feferman s 70th birthday The Feferfest at Stanford University California in 1988 Feferman has shaped the field of foundational research for nearly half a century These papers reflect his broad interests as well as his approach to foundational research which emphasizes the solution of mathematical and philosophical problems There are four sections covering proof theoretic analysis logic and computation applicative and self applicative theories and philosophy of modern mathematical and logic thought *Unifying the Philosophy of Truth* Theodora Achourioti,Henri Galinon,José Martínez Fernández,Kentaro Fujimoto,2015-06-16 This anthology of the very latest research on truth features the work of recognized luminaries in the field put together following a rigorous refereeing process Along with an introduction outlining the central issues in the field it provides a unique and unrivaled view of contemporary work on the nature of truth with papers selected from key conferences in 2011 such as Truth Be Told Amsterdam Truth at Work Paris Paradoxes of Truth and Denotation Barcelona and Axiomatic Theories of Truth Oxford Studying the nature of the concept of truth has always been a core role of philosophy but recent years have been a boom time in the topic With a wealth of recent conferences examining the subject from various angles this collection of essays recognizes the pressing need for a volume that brings scholars up to date on the arguments Offering academics and graduate students alike a much needed repository of today s cutting edge work in this vital topic of philosophy the volume is required reading for anyone needing to keep abreast of developments and is certain to act as a catalyst for further innovation and research **Frontiers of Combining Systems** F. Baader,K.U. Schulz,2013-11-09 Donation refusal is high in all the regions of Argentina The deficient operative structure is a negative reality that allows inadequate donor maintenance and organ procurement In more developed regions there are a high number of organs which are not utilized This is true for heart liver and lungs Small waiting lists for these organs probably reflect an inadequate economic coverage for these organ transplant activities There is a long waiting list for cadaveric kidney transplants which reflect poor procurement and transplant activity Lack of awareness by many physicians

leads to the denouncing of brain deaths In spite of these factors we can say that there has been a significant growth in organ procuration and transplantation in 1993 after the regionalization of the INCUCAI Conclusions Is there a shortage of organs in Argentina There may be But the situation in Argentina differs from that in Europe as we have a pool of organs which are not utilized donation refusal operational deficits lack of denouncing of brain deaths Perhaps in the future when we are able to make good use of all the organs submitted for transplantation we will be able to say objectively whether the number of organs is sufficient or not Acknowledgements I would like to thank the University of Lyon and the Merieux Foundation especially Professors Traeger Touraine and Dr Dupuy for the honour of being invited to talk about the issue of organ procurement   A Functorial Model Theory Cyrus F. Nourani,2016-04-19 This book is an introduction to a functorial model theory based on infinitary language categories The author introduces the properties and foundation of these categories before developing a model theory for functors starting with a countable fragment of an infinitary language He also presents a new technique for generating generic models with categories by inventing infinite language categories and functorial model theory In addition the book covers string models limit models and functorial models   Proof, Language, and Interaction Robin Milner,2000 This collection of essays reflects the breadth of research in computer science Following a biography of Robin Milner it contains sections on semantic foundations programming logic programming languages concurrency and mobility   **The Functional Interpretation of Logical Deduction** Ruy J. G. B. de Queiroz,Anjolina G. de Oliveira,Dov M. Gabbay,2012 This comprehensive book provides an adequate framework to establish various calculi of logical inference Being an enriched system of natural deduction it helps to formulate logical calculi in an operational manner By uncovering a certain harmony between a functional calculus on the labels and a logical calculus on the formulas it allows mathematical foundations for systems of logic presentation designed to handle meta level features at the object level via a labelling mechanism such as the D Gabbay s Labelled Deductive Systems The book truly demonstrates that introducing labels is useful to understand the proof calculus itself and also to clarify its connections with model theoretic interpretations   **Proof and System-Reliability** Helmut Schwichtenberg,Ralf Steinbrüggen,2012-12-06 As society comes to rely increasingly on software for its welfare and prosperity there is an urgent need to create systems in which it can trust Experience has shown that confidence can only come from a more profound understanding of the issues which in turn can come only if it is based on logically sound foundations This volume contains contributions from leading researchers in the critical disciplines of computing and information science mathematics logic and complexity All contributions are self contained aiming at comprehensibility as well as comprehensiveness The volume also contains introductory hints to technical issues concise surveys introductions and various fresh results and new perspectives   *History and Philosophy of Constructive Type Theory* Giovanni Sommaruga,2013-03-09 A comprehensive survey of Martin L f s constructive type theory considerable parts of which have only been presented by Martin L f in lecture form or as part of conference talks Sommaruga surveys the

prehistory of type theory and its highly complex development through eight different stages from 1970 to 1995 He also provides a systematic presentation of the latest version of the theory as offered by Martin L f at Leiden University in Fall 1993 This presentation gives a fuller and updated account of the system Earlier brief presentations took no account of the issues related to the type theoretical approach to logic and the foundations of mathematics while here they are accorded an entire part of the book Readership Comprehensive accounts of the history and philosophy of constructive type theory and a considerable amount of related material Readers need a solid background in standard logic and a first basic acquaintance with type theory   Reverse Mathematics Damir D. Dzhafarov,Carl Mummert,2022-07-25 Reverse mathematics studies the complexity of proving mathematical theorems and solving mathematical problems Typical questions include Can we prove this result without first proving that one Can a computer solve this problem A highly active part of mathematical logic and computability theory the subject offers beautiful results as well as significant foundational insights This text provides a modern treatment of reverse mathematics that combines computability theoretic reductions and proofs in formal arithmetic to measure the complexity of theorems and problems from all areas of mathematics It includes detailed introductions to techniques from computable mathematics Weihrauch style analysis and other parts of computability that have become integral to research in the field Topics and features Provides a complete introduction to reverse mathematics including necessary background from computability theory second order arithmetic forcing induction and model construction Offers a comprehensive treatment of the reverse mathematics of combinatorics including Ramsey s theorem Hindman s theorem and many other results Provides central results and methods from the past two decades appearing in book form for the first time and including preservation techniques and applications of probabilistic arguments Includes a large number of exercises of varying levels of difficulty supplementing each chapter The text will be accessible to students with a standard first year course in mathematical logic It will also be a useful reference for researchers in reverse mathematics computability theory proof theory and related areas Damir D Dzhafarov is an Associate Professor of Mathematics at the University of Connecticut CT USA Carl Mummert is a Professor of Computer and Information Technology at Marshall University WV USA

Philosophy of Mathematics Paul Benacerraf,Hilary Putnam,1984-01-27 The twentieth century has witnessed an unprecedented crisis in the foundations of mathematics featuring a world famous paradox Russell s Paradox a challenge to classical mathematics from a world famous mathematician the mathematical intuitionism of Brouwer a new foundational school Hilbert s Formalism and the profound incompleteness results of Kurt G del In the same period the cross fertilization of mathematics and philosophy resulted in a new sort of mathematical philosophy associated most notably but in different ways with Bertrand Russell W V Quine and G del himself and which remains at the focus of Anglo Saxon philosophical discussion The present collection brings together in a convenient form the seminal articles in the philosophy of mathematics by these and other major thinkers It is a substantially revised version of the edition first published in 1964 and includes a revised

bibliography The volume will be welcomed as a major work of reference at this level in the field   *Logic Colloquium '99* Jan Van Eijck,Vincent Van Oostrom,Albert Visser,2004-07-08 A compilation of papers presented at the 1999 European Summer Meeting of the Association for Symbolic Logic Logic Colloquium 99 includes surveys and research articles from some of the world s preeminent logicians Two long articles are based on tutorials given at the meeting and present accessible expositions of current research in two active are   **Logical Foundations of Computer Science** Sergei Artemov,Anil Nerode,2015-12-14 This book constitutes the refereed proceedings of the International Symposium on Logical Foundations of Computer Science LFCS 2016 held in Deerfield Beach FL USA in January 2016 The 27 revised full papers were carefully reviewed and selected from 46 submissions The scope of the Symposium is broad and includes constructive mathematics and type theory homotopy type theory logic automata and automatic structures computability and randomness logical foundations of programming logical aspects of computational complexity parameterized complexity logic programming and constraints automated deduction and interactive theorem proving logical methods in protocol and program verification logical methods in program specification and extraction domain theory logics logical foundations of database theory equational logic and term rewriting lambda and combinatory calculi categorical logic and topological semantics linear logic epistemic and temporal logics intelligent and multiple agent system logics logics of proof and justification non monotonic reasoning logic in game theory and social software logic of hybrid systems distributed system logics mathematical fuzzy logic system design logics and other logics in computer science   *Metamathematics of First-Order Arithmetic* Petr Hájek,Pavel Pudlák,2017-03-02 A much needed monograph on the metamathematics of first order arithmetic paying particular attention to fragments of Peano arithmetic

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