

Springer

1st
edition1st ed. 2015, XIX, 99 p. 26
illus.**Printed book**

Softcover

Printed book

Softcover

ISBN 978-3-319-19062-4

\$ 69,99

Available

Discount group

Professional Books (2)

Product category

Brief

Series

SpringerBriefs in Philosophy

Philosophy : Logic

Clerbout, Nicolas, Rahman, Shahid

Linking Game-Theoretical Approaches with Constructive Type Theory

Dialogical Strategies, CTT demonstrations and the Axiom of Choice

- Links two of the most dominant research streams in philosophy of logic - game theory and proof theory
- Builds a link between the two main theories using the dialogical approach to logic
- Focuses on the logically valid fragment of Constructive Type Theory

This title links two of the most dominant research streams in philosophy of logic, namely game theory and proof theory. As the work's subtitle expresses, the authors will build this link by means of the dialogical approach to logic. One important aspect of the present study is that the authors restrict themselves to the logically valid fragment of Constructive Type Theory (CTT). The reason is that, once that fragment is achieved the result can be extended to cover the whole CTT system. The first chapters in the brief offer overviews on the two frameworks discussed in the book with an emphasis on the dialogical framework. The third chapter demonstrates the left-to-right direction of the equivalence result. This is followed by a chapter that demonstrates the use of the algorithm in showing how to transform a specific winning strategy into a CCT-demonstration of the axiom of choice. The fifth chapter develops the algorithm from CTT-demonstrations to dialogical strategies. This brief concludes by introducing elements of discussion which are to be developed in subsequent work.

Order online at springer.com/booksellers

Springer Nature Customer Service Center LLC

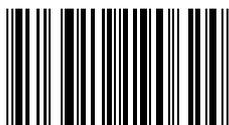
233 Spring Street

New York, NY 10013

USA

T: +1-800-SPRINGER NATURE

(777-4643) or 212-460-1500

customerservice@springernature.com

ISBN 978-3-319-19062-4 / BIC: HPL / SPRINGER NATURE: SCE16000

Prices and other details are subject to change without notice. All errors and omissions excepted. Americas: Tax will be added where applicable. Canadian residents please add PST, QST or GST. Please add \$5.00 for shipping one book and \$ 1.00 for each additional book. Outside the US and Canada add \$ 10.00 for first book, \$5.00 for each additional book. If an order cannot be fulfilled within 90 days, payment will be refunded upon request. Prices are payable in US currency or its equivalent.

Part of **SPRINGER NATURE**