Record Nr. UNINA9910760284203321 Formal Methods for an Informal World: ICTAC 2021 Summer School, **Titolo** Virtual Event, Astana, Kazakhstan, September 1-7, 2021, Tutorial Lectures / / Antonio Cerone, editors Cham, Switzerland: ,: Springer, , [2023] Pubbl/distr/stampa ©2023 **ISBN** 3-031-43678-4 Edizione [First edition.] Descrizione fisica 1 online resource (180 pages) Collana Lecture Notes in Computer Science Series; ; Volume 13490 Disciplina 005.3 Formal methods (Computer science) Soggetti Lingua di pubblicazione Inglese **Formato** Materiale a stampa Monografia Livello bibliografico Nota di bibliografia Includes bibliographical references and index. Nota di contenuto Modelling Interactions: Digital and Physical -- Modelling and Analysing Cognition and Interaction -- Object-Centric Process Mining: An Introduction -- Model-based engineering for robotics with RoboChart and RoboTool -- Formal Methods Adoption in Industry: An Experience Report -- Security Research: Program Analysis Meets Security. Sommario/riassunto This volume includes six lectures given at the ICTAC (International Colloquium on Theoretical Aspects of Computing) School on Formal Methods for an Informal World, held on September 1-7, 2021, originally scheduled to take place in Astana but held in virtual mode due to the pandemic. The school addressed the use of formal methods at various levels of rigour in different application domains: humancomputer interaction, cognitive science, business process management, robotics, and healthcare. The emphasis of the school was on practical applications in which formal methods provide unambiguous descriptions of the real world that facilitate understanding and formal and informal analysis. The target audience consists of graduate students, young researchers and industrial practitioners, from both computer science and other fields that make use of computational

methods.