

Andrea Werneck Richa  
Christian Scheideler (Eds.)

LNCS 12156

# Structural Information and Communication Complexity

27th International Colloquium, SIROCCO 2020  
Paderborn, Germany, June 29 – July 1, 2020  
Proceedings

# Structural Information And Communication Complexity

**Merav Parter**

## **Structural Information And Communication Complexity:**

Structural Information and Communication Complexity Andrea Werneck Richa,Christian Scheideler,2020-07-29 This book constitutes the refereed conference proceedings of the 27th International Colloquium on Structural Information and Communication Complexity SIROCCO 2020 held in Paderborn Germany in June 2020 The 19 full papers and 2 invited papers presented in this book were carefully reviewed and selected from 41 submissions They are divided into seven sections i e invited papers mobile robots dynamic graphs network communication multi agent systems communication complexity and game theory The conference was held virtually due to the COVID 19 pandemic

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**Communication Complexity** Tomasz Jurdziński,Stefan Schmid,2021-06-19 This book constitutes the refereed conference proceedings of the 28th International Colloquium on Structural Information and Communication Complexity SIROCCO 2021 held in Wrocław Poland in June 2021 Due to COVID 19 the conference will be held online The 20 full papers presented in this book were carefully reviewed and selected from 48 submissions The papers are solicited from all areas of study of local structural knowledge and global communication and computational complexities Among the typical areas are distributed computing communication networks game theory parallel computing social networks mobile computing

Structural Information and Communication Complexity Shantanu Das,Sebastien Tixeuil,2017-12-30 This book constitutes the thoroughly refereed proceedings of the 24th International Colloquium on Structural Information and Communication Complexity SIROCCO 2017 held in Porquerolles France in June 2017 The 21 full papers presented were carefully reviewed and selected from 41 submissions They are devoted to the study of the interplay between structural knowledge communications and computing in decentralized systems of multiple communicating entities They are organized around the following topics wireless networks identifiers and labeling mobile agents probabilistic algorithms computational complexity dynamic networks

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Structural Information and Communication Complexity Christian Scheideler,2015-10-19 This book constitutes the thoroughly refereed post conference proceedings of the 22nd International Colloquium on Structural Information and Communication Complexity SIROCCO 2015 held in Montserrat Spain in July 2015 The 30 full papers presented together with 2 invited papers were carefully reviewed and selected from 78 submissions The papers focus on the study of the interplay between communication and knowledge in multi processor systems from both the qualitative and quantitative viewpoints

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Žerovnik,2010-01-25 LNCS 5869    **Structural Information and Communication Complexity** Zvi Lotker,Boaz Patt-Shamir,2018-10-30 This book constitutes the refereed post conference proceedings of the 25th International Colloquium on Structural Information and Communication Complexity SIROCCO 2018 held in Ma ale HaHamisha Israel in June 2018 The 23 full papers and 8 short papers presented were carefully reviewed and selected from 47 submissions They are devoted to the study of the interplay between structural knowledge communications and computing in decentralized systems of multiple communicating entities and cover a large range of topics    **Structural Information and Communication Complexity** Boaz Patt-Shamir,Tinaz Ekim,2010-05-21 This book constitutes the refereed proceedings of the 17th International Colloquium on Structural Information and Communication Complexity SIROCCO 2010 held in Sirince Turkey in June 2010 The 19 revised full papers presented were carefully reviewed and selected from 37 submissions The volume also contains the abstract of one invited talk The papers are organized in topical section on game theory network algorithms motion planning asynchrony network algorithms motion planning topology algorithms and graph algorithms    **Structural Information and Communication Complexity** Keren Censor-Hillel,Michele Flammini,2019-07-12 This book constitutes the refereed conference proceedings of the 26th International Colloquium on Structural Information and Communication Complexity SIROCCO 2019 held in L Aquila Italy in July 2019 The 19 full papers and 9 short papers presented in this book were carefully reviewed and selected from 39 submissions They are devoted to the study of the interplay between structural knowledge communication and computing in decentralized systems of multiple communicating entities    **Structural Information and Communication Complexity** Yuval Emek,2024-05-22 This book constitutes the refereed proceedings of the 31th International Colloquium on Structural Information and Communication Complexity SIROCCO 2024 held in Haifa Israel in May 2024 The 24 full papers and 6 short papers presented in this book were carefully reviewed and selected from 49 submissions SIROCCO is devoted to the study of the interplay between structural knowledge communication and computing in decentralized systems of multiple communicating entities Special emphasis is given to innovative approaches leading to better understanding of the relationship between computing and communication    **Structural Information and Communication Complexity** Ratislav Královic,Ondrej Sykora,2004-09-21 This book constitutes the refereed proceedings of the 11th International Colloquium on Structural Information and Communication Complexity SIROCCO 2004 held in Smolenice Castle Slovakia in June 2004 The 26 revised full papers presented were carefully reviewed and selected from 56 submissions Among the topics addressed are WDM networks optical networks ad hoc networking computational graph theory graph algorithms radio networks routing shortest path problems searching labelling distributed algorithms communication networks approximation algorithms wireless networks scheduling NP completeness Byzantine environments    **Structural Information and Communication Complexity - SIROCCO 2009** Shay Kutten,Janez Žerovnik,2012    **Structural Information and Communication Complexity** Andrzej Pelc,2005-05-17 SIROCCO 2005 was the twelfth in this series held in Mont Saint

Michel France May 24 26 2005    **Structural Information and Communication Complexity** Sergio Rajsbaum,Alkida Balliu,Joshua J. Daymude,Dennis Olivetti,2023-05-24 This book constitutes the refereed proceedings of the 30th International Colloquium on Structural Information and Communication Complexity SIROCCO 2023 held in Alcal de Henares Spain during June 6 9 2023 The 26 full papers presented in this book were carefully reviewed and selected from 48 submissions SIROCCO is devoted to the study of the interplay between structural knowledge communication and computing in decentralized systems of multiple communicating entities Special emphasis is given to innovative approaches leading to better understanding of the relationship between computing and communication This is the 30th edition of SIROCCO and 3 of the 26 papers in this book are devoted to celebrating this fact plus an additional paper about a recent trend to study special models of computation    **Structural Information and Communication Complexity** Ulrich Schmid,Roman Kuznets,2025-05-21 This book constitutes the refereed proceedings of the 32nd International Colloquium on Structural Information and Communication Complexity SIROCCO 2025 held in Delphi Greece in June 2025 The 24 full papers and 4 brief announcements included in the proceedings were carefully reviewed and selected from a total of 57 submissions They focus on innovative methodological and solution approaches in structural knowledge communication and computing in decentralized systems of multiple communicating entities    **Structural Information and Communication Complexity** Adrian Kosowski,Masafumi Yamashita,2011-06-24 This book constitutes the refereed proceedings of the 18th International Colloquium on Structural Information and Communication Complexity SIROCCO 2011 held in Gdansk Poland in June 2011 The 24 revised full papers presented together with 1 survey lecture and 2 invited talks were carefully reviewed and selected from 57 submissions The papers are organized in topical section on fault tolerance routing mobile agents mobile robots probabilistic methods distributed algorithms on graphs and ad hoc networks    *Structural Information and Communication Complexity* Merav Parter,2022-06-24 This book constitutes the refereed conference proceedings of the 29th International Colloquium on Structural Information and Communication Complexity SIROCCO 2022 held in Paderborn Germany in June 2022 The 16 full papers presented in this book were carefully reviewed and selected from 30 submissions SIROCCO is devoted to the study of the interplay between structural knowledge communication and computing in decentralized systems of multiple communicating entities Special emphasis is given to innovative approaches leading to better understanding of the relationship between computing and communication    **Structural Information and Communication Complexity** Alex Allister Shvartsman,2008-06-03 This book constitutes the refereed proceedings of the 15th International Colloquium on Structural Information and Communication Complexity SIROCCO 2008 held in Villars sur Ollon Switzerland in June 2008 The 22 revised full papers presented together with 2 invited talks were carefully reviewed and selected from 52 submissions The papers cover topics such as distributed algorithms compact data structures information dissemination informative labeling schemes combinatorial optimization and others with potential applications to large scale distributed systems including global

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