

2020/21 ANNUAL REPORT BRAZILIAN COMPUTER SOCIETY (SBC)



In this report, it is presented the main activities of SBC carried out from August 2020 to August 2021.

An Overview of SBC

Founded in 1978, SBC has played a relevant role in establishing computing as a science and profession in Brazil and Latin America. It is represented in several government institutions and maintains a strong influence in adopted curricula for computing careers in Brazil. The society is organized over 27 special commissions virtually covering all fields of computer science and ICT, with related technical conferences. SBC maintains an open digital library, OpenLib (SOL), whose main objective is to enable access to specialized information in Computing Science. The collection consists of event proceedings, journals with national and international visibility, books and chapters that concentrate the scientific production resulting from research and discussions in the area. SBC has 25 regional chapters located in all the states of Brazil: 4 in the Central-West region, 4 in the North region, 9 in the Northeast region, 3 in the South region and 5 in the Southeast region. Only in a few states in the northern region SBC do not have one chapter per state due to the smaller number of associates in this region and the only state that has two chapters is São Paulo. In these 25 regional chapters, there are 165 institutional representations from education and research institutions.

SBC's Vision/Mission Statement

SBC is a non-profit scientific society, founded on July 24, 1978, whose individual members are students, professors, professionals, researchers, and computing and ICT enthusiasts from all over Brazil. SBC aims at promoting access to information and culture through information and communication technologies, promoting digital inclusion, encouraging research and teaching on computing in Brazil, and at contributing to the education of responsible professionals with social responsibility.

Brazilian Participation in IFIP

General Assembly Representative and Board Member

Raimundo José de Araújo Macêdo

Technical Committees (TC) and Working Groups (WG)

TC 1 - Foundations of Computer Science

- TC1 Brazilian member: Leila Ribeiro
- Chair of WG 1.5: Pedro Paulo Balbi
- WG 1.3: Leila Ribeiro

TC 2 – Software: Theory and Practice

- TC2 Brazilian member: Julio Leite
- WG 2.6: Sylvio Barbon
- WG 2.7: Simone Diniz Junqueira Barbosa
- WG 2.9: Julio Caesar S. Leite
- WG 2.13: Fábio Kon
- WG 2.16: Roberto Ierusalimsky

TC 3 - Education

- TC3 Brazilian member: Ig lbert Bittencourt

TC 5 - Information Technology Applications

- Vice-Chair of WG 5.5: Ricardo J. Rabelo
- WG 5.1: Eduardo de Senzi Zancul
- WG 5.4: Marco Aurélio de Carvalho
- WG 5.7: Joao Mendes Dos Reis, Irenilza de Alencar Nääs and Ricardo José Rabelo
- WG 5.8: João Paulo Almeida

TC 6 - Communication Systems

- TC6 Brazilian member: José Neuman de Sousa
- WG 6.2: José Neuman de Souza
- WG 6.3: Luis Felipe M. de Moraes and Edmundo de Souza e Silva
- WG 6.6: José Neuman de Souza, José Marcos S. Nogueira and Carlos Becker Westphall
- WG 6.8: Claudia Barenco Abbas
- WG 6.9: José Neumann de Souza
- WG 6.11: Americo N. Amorim and Manuel J. Mendes

TC 7 - System Modeling and Optimization

- TC7 Brazilian member: Edmundo de Souza e Silva
- WG 7.3: Virgilio Almeida and Edmundo de Souza e Silva
- WG 7.4: Antônio Leitão

TC 8 - Information Systems

- WG 8.1: Jaelson Castro and Giancarlo Guizzardi
- WG 8.2: Eduardo Morgado
- WG 8.3: Andreia Carneiro T. D. Pereira and Alecsandra Alves V. Ventura
- WG 8.5: Renata Araujo, Luiz Antonio Joia, Beatriz Lanza, Gabriel Marcuzzo, and Nicolau Reinhard
- WG 8.9: Rogerio Atem de Carvalho

TC 9 - ICT and Society

- WG 9.4: Luiz Antonio Joia and Renata Lèbre La Rovere

TC 10 - Computer Systems Technology

- TC10 Brazilian member: Ricardo Augusto da Luz Reis
- WG 10.2: Luigi Carro Marco, Götz Marcio Kreutz, Carlos E. Pereira and Flávio R. Wagner
- WG 10.3: Siang Wun Song
- WG 10.4: Eliane Martins
- WG 10.5: Flávio Rech Wagner and Ricardo Reis

TC 11 - Security and Privacy Protection in Information Processing Systems

- WG 11.8: Ricardo Dahab and Roberto Gallo

TC 12 - Artificial Intelligence

- TC12 Brazilian member: André C. P. de L. de Carvalho
- Vice-Chair of Working Group 12.3: Jaime Simão Sichman
- WG 12.3: Rafael Bordini

TC 13 - Human-Computer Interaction

- TC13 Brazilian member: Lara S. G. Piccolo
- Vice-chair of TC 13: Simone D. Junqueira Barbosa
- WG 13.3: André Freire
- WG 13.4: Simone Diniz Junqueira Barbosa
- WG 13.7: Simone Diniz Junqueira Barbos

TC 14 - Entertainment Computing

- Chair of Working Group 14.10: Rodrigo Schramm
- WG 14.3: Suely Fragoso
- WG 14.10: Marcelo Johann

Key Activities from August 2020 to August 2021

Events

In the reported period, 37 events of different sizes and formats were held, including symposia, conferences, and regional chapter events with tutorials, workshops and short courses. All events were organized in the online format only.

Besides the technical events, SBC promotes annually the Congress of the Brazilian Computer Society (CSBC) to discuss emergent societal and multidisciplinary issues, which is the most traditional and the largest scientific event in the area of Computer Science in Brazil. Since its inaugural edition in 1980, CSBC gathers annually an average of 1,000 academics, researchers, students, and professionals from Brazil and abroad to present and discuss the latest scientific, technological, educational, and political developments in the area of Computer Science.

The main theme of CSBC 2021 was “Innovation and Digital Transformation: Facing the Complexity and Uncertainties of the Contemporary”, comprising 25 parallel events with over 1200 participants, with activities such as technical sessions, keynotes, panels, meetings, symposiums, workshops, as well as courses, training and contests targeted at graduate and undergraduate students.

The congress addressed the challenges faced in an increasingly dynamic, complex, and world, highlighting the role of computing technology as a key tool to boost innovation and the transformations that can lead to solutions for the obstacles currently faced by our society. While new risks, uncertainties, and adversities have emerged due to the Covid-19 pandemic, new opportunities have also been created. In this context, all segments of our society increasingly require and are influenced by computer systems and the Internet.

At the occasion, the Brazilian Computer Society also joined the #ifip60 celebrations with the keynote “IFIP: a global framework for the socially responsible development and application of information and communication technologies”, delivered by IFIP President, Mike Hinchey. More information about the congress can be found at <http://sbc.org.br/csbc2021>



Opening session of CSBC 2021, with SBC President, Raimundo Macêdo, organizers and authorities.

Events Promoted, Co-promoted, or Supported by SBC

Technical Symposia and Conferences - Promoted Events

- XVI Simpósio Brasileiro de Sistemas de Informação (SBSI 2020)
- XIX Simpósio Brasileiro de Games e Entretenimento Digital (SBGames 2020)
- 33rd Conference on Graphics, Patterns and Images (SIBGRAPI 2020)
- XXII Symposium on Virtual and Augmented Reality (SVR 2020)
- 17th Latin American Robotics Symposium and 812th Brazilian Symposium of Robotics and (LARS/SBR 2020)
- IX Congresso Brasileiro de Informática na Educação (CBIE 2020)
- XL Congresso da Sociedade Brasileira de Computação (CSBC 2020)
- XIII Brazilian Symposium on Bioinformatics (BSB 2020)
- X Brazilian Symposium on Computing Systems Engineering (SBESC 2020)
- 23rd Brazilian Symposium on Formal Methods (SBMF 2020)
- XXVI Simpósio Brasileiro de Sistemas Multimídia e Web (WEBMEDIA 2020)
- XIX Simpósio Brasileiro de Qualidade de Software (SBQS 2020)
- XXXVIII Simpósio Brasileiro de Redes de Computadores e Sistemas Distribuídos (SBRC 2020)
- XVI Simpósio Brasileiro de Sistemas Colaborativos (SBSC 2021)
- I Simpósio Brasileiro de Educação em Computação (EduComp 2021)
- XVII Simpósio Brasileiro de Sistemas de Informação (SBSI 2021)
- XXI Simpósio Brasileiro de Computação Aplicada à Saúde (SBCAS 2021)

Regional Schools

- I Escola Regional de Computação do Rio Grande do Sul (ERCOMP-RS 2020)
- VIII Escola Regional de Informática de Goiás (ERI-GO 2020)
- IV Escola Regional de Sistema de Informação 2020 (ERSI-GO 2020)
- IV Escola Regional de Engenharia de Software (ERES 2020)
- XVIII Escola Regional de Redes de Computadores (ERRC 2020)
- VI Escola Regional de Alto Desempenho do Rio de Janeiro (ERAD-RJ 2020)
- XXI Escola Regional de Alto Desempenho da Região Sul (ERAD-RS 2021)
- XII Escola Regional de Alto Desempenho de São Paulo (ERAD-SP 2021)

Co-promoted Events

- 14th Latin American Theoretical Informatics Symposium (LATIN 2020)
- 14th IEEE International Conference on Software Testing, Verification and Validation (IEEE/ICST 2021)
- XI Latin and American Algorithms, Graphs and Optimization Symposium (LAGOS 2021)

Supported Events

- XVII Congresso Brasileiro de Informática em saúde (CBIS 2020)
- VII Workshop Pré-IETF (WPIETF 2020)
- XV Encontro Anual de Computação (EnAComp 2020)
- XI Encontro Anual de Tecnologia da Informação (EATI 2020*) *Evento adiado e realizado em 2021
- II Escola de Verão em Inteligência Artificial (EVER 2021)
- XII Computer on the Beach 2021
- VII Seminário Internacional de Cultura Digital (SENID 2021)
- XXXIII Congresso Iniciação Científica do Inatel (INCITEL 2021)

More information about the Brazilian Computer Society (SBC) can be found at our:

- Web Site: <https://www.sbc.org.br/>
- Annual Reports (English/Portuguese): <https://sol.sbc.org.br/livros/index.php/sbc/catalog/series/rels>
- Open Digital Library: <https://sol.sbc.org.br/>