



# NASA INTERNATIONAL SPACE APPS CHALLENGE

October 7-8, 2023



## SPACE APPS BY THE NUMBERS



**57,999**

Registered  
Participants

**5,556**

Projects  
Submitted

**13**

Space Agency  
Partners

**3,195**

Universal Event  
Registrations

**152**

Countries /  
Territories

**30**

Challenges

**516M**

Social Mentions  
Reach

**135**

Subject Matter  
Experts

**8,715**

Teams

**402**

Local Events

**12**

Global Offers

**24**

Navigators

**TOP 5  
COUNTRIES**

By Number of Registrants

India | Egypt | Turkey  
Brazil | Pakistan

**26**

Amplification  
Collaborators

## EXPLORE OPEN SCIENCE TOGETHER



IN PARTNERSHIP WITH



Space Apps is funded by NASA's Earth Science Division through a contract with Booz Allen Hamilton, Mindgrib, and SecondMuse. The 2023 NASA International Space Apps Challenge theme was sponsored by NASA's Transform to Open Science (TOPS).

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# The Challenge Of Space

**Michael Brown**



## **The Challenge Of Space:**

*The Space Challenge for Europe*, 1985      *An Exploration of Space 1999 Through the Lens of Fan Fiction: Forever Alpha*  
John K. Balor, 2019-07-10 An essential introduction to a rapidly growing field of study AN EXPLORATION OF SPACE 1999  
THROUGH THE LENS OF FAN FICTION gathers in one place the complete 2015 16 Online Alpha discussion of the SPACE  
1999 fan fiction corpus with a focus on the FOREVER ALPHA fan fiction series Collected here are central viewpoints and  
arguments by Online Alpha discussants that have dominated Online Alpha debates in recent years Editor John K Balor  
provides a cogent introduction that places each piece in its historical and intellectual context mapping the discussion and  
suggesting future trajectories The book has been developed on an idealistic basis It is sold at the lowest price the publisher  
was willing to accept A free e book version can be downloaded at [www.lulu.com](http://www.lulu.com)      **Advances in Cryptology - CRYPTO**

**2025** Yael Tauman Kalai, Seny F. Kamara, 2025-09-17 The 8 volume set LNCS 16000 16008 constitutes the proceedings of the  
45th Annual International Cryptology Conference CRYPTO 2025 which took place in Santa Barbara CA USA during August 17  
21 2025 The total of 156 full papers presented in the proceedings was carefully reviewed and selected from 643 submissions  
They focus on cryptographic topics such as foundational theory and mathematics the design proposal and analysis of  
cryptographic primitives and protocols secure implementation and optimization in hardware or software applied aspects of  
cryptography      *Space Shuttle Technical Conference, Part 2*, 1985      **Theory of Cryptography** Benny Applebaum, Huijia  
(Rachel) Lin, 2026-01-05 The four volume set LNCS 16268 16271 constitutes the refereed proceedings of the 23rd  
International Conference on Theory of Cryptography TCC 2025 held in Aarhus Denmark during December 1 5 2025 The total  
of 70 full papers presented in the proceedings was carefully reviewed and selected from 242 submissions They were  
organized in topical sections as follows Part I Secure Computation Homomorphic Primitives Proofs Part II Foundations  
Obfuscation and Functional Encryption Secret Sharing Part III Quantum Cryptography Signatures and Intractability  
Assumptions Part IV Proofs Young Researcher Award and Outstanding Paper Awards Differential Privacy Times  
Cryptography and Verifiable Random Function Secure Computation      **Codes, Cryptology and Information Security** Said  
El Hajji, Sihem Mesnager, El Mamoun Souidi, 2023-05-18 This book constitutes the refereed proceedings of the 4th  
International Conference on Codes Cryptology and Information Security C2SI 2023 held in Rabat Morocco during May 29 31  
2023 The 21 full papers included in this book were carefully reviewed and selected from 62 submissions They were organized  
in topical sections as follows Invited Papers Cryptography Information Security Discrete Mathematics Coding Theory

**Public-Key Cryptography - PKC 2019** Dongdai Lin, Kazuo Sako, 2019-04-08 The two volume set LNCS 11442 and  
11443 constitutes the refereed proceedings of the 22nd IACR International Conference on the Practice and Theory of Public  
Key Cryptography PKC 2019 held in Beijing China in April 2019 The 42 revised papers presented were carefully reviewed  
and selected from 173 submissions They are organized in topical sections such as Cryptographic Protocols Digital Signatures

Zero Knowledge Identity Based Encryption Fundamental Primitives Public Key Encryptions Functional Encryption  
Obfuscation Based Cryptography Re Encryption Schemes Post Quantum Cryptography      **Post-Quantum Cryptography**  
Markku-Juhani Saarinen, Daniel Smith-Tone, 2024-06-10 The two volume set LNCS 14771 and 14772 constitutes the refereed proceedings of the 15th International Workshop PQCrypto 2024 held in Oxford UK during June 12 14 2024 The 28 full papers included in these proceedings were carefully reviewed and selected from 76 submissions They were organized in topical sections as follows Part I Applications and protocols code based cryptography group action based cryptography lattice based cryptography Part II Isogeny Based cryptography multivariate cryptography quantum algorithms transforms and proofs  
Arthur C. Clarke Joseph D. Olander, Martin Harry Greenberg, 1977      **Public-Key Cryptography - PKC 2024** Qiang Tang, Vanessa Teague, 2024-04-12 The four volume proceedings set LNCS 14601 14604 constitutes the refereed proceedings of the 27th IACR International Conference on Practice and Theory of Public Key Cryptography PKC 2024 held in Sydney NSW Australia April 15 17 2024 The 54 papers included in these proceedings were carefully reviewed and selected from 176 submissions They focus on all aspects of signatures attacks commitments multiparty computation zero knowledge proofs theoretical foundations isogenies and applications lattices and applications Diffie Hellman and applications encryption homomorphic encryption and implementation      **Speaking of Space and Aeronautics ,      Total Cold War** Kenneth Alan Osgood, 2006 Osgood focuses on major campaigns such as Atoms for Peace People to People and cultural exchange programs Drawing on recently declassified documents that record U S psychological operations in some three dozen countries he tells how U S propaganda agencies presented everyday life in America to the world its citizens living full happy lives in a classless society where economic bounty was shared by all Osgood further investigates the ways in which superpower disarmament negotiations were used as propaganda maneuvers in the battle for international public opinion He also reexamines the early years of the space race focusing especially on the challenge to American propagandists posed by the Soviet launch of Sputnik  
**Aircraft Year Book** Fay Leone Faurote, 1959      **Western Aerospace** , 1959      *Boeing Magazine* , 1963      **Western Aviation, Missiles, and Space** , 1963      *Reports of Cases Relating to Maritime Law* Great Britain. Courts, 1891  
**International Space Policy** Daniel Papp, John McIntyre, 1987 This book brings together experts and analysts in international space policy from academia government and corporations and from the technical and legal spheres It was felt that this broad cross section of expertise would result in the multidimensional and multidisciplinary treatment this complex issue requires This volume provides a valuable mix of perspectives by experts examining the important issues of this new era of space exploration      History of Spanish Literature George Ticknor, 1891      **The Space Shuttle at Work** Howard Allaway, 1979

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