

AI systems to ensure cyber security in space

Pelin Manti, Nebile; **Carlo, Antonio**; Markova, Rada; Jha, Devanshu; Breda, Paola; Abdin, Adam; Boschetti, Nicolo IAC 2022 congress proceedings 2022 / art. 70423 <https://dl.iafastro.directory/event/IAC-2022/paper/70423/> [Conference proceedings at Scopus Article at Scopus](#)

Artificial intelligence in the defence sector

Carlo, Antonio Modelling and Simulation for Autonomous Systems : 7th International Conference, MESAS 2020, Prague, Czech Republic, October 21, 2020, Revised Selected Papers 2021 / p. 269-278 https://doi.org/10.1007/978-3-030-70740-8_17 [Conference proceedings at Scopus Article at Scopus](#) [Conference proceedings at WOS Article at WOS](#)

ASAT weapons : enhancing NATO's operational capabilities in the emerging space dependent era

Carlo, Antonio; Veazoglou, Nikolaos Modelling and Simulation for Autonomous Systems : 6th International Conference, MESAS 2019, Palermo, Italy, October 29–31, 2019, Revised Selected Papers 2020 / p. 417-426 https://doi.org/10.1007/978-3-030-43890-6_34

The challenge of protecting space-based assets against cyber threats

Carlo, Antonio; Lacroix, Lisa; Zarkan Cesari, Laetitia IAC 2020 congress proceedings 2020 / art. 59386 <https://dl.iafastro.directory/event/IAC-2020/paper/59386/>

Cyber range and digital twin technologies for space resiliency and security

Carlo, Antonio; Manti, Nebile Pelin; Edl, András; Bintang Alam Semesta Wisran, A.M.; Breda, Paola 57th IAA Symposium on Safety, Quality and Knowledge Management in Space Activities : held at the 75th International Astronautical Congress (IAC 2024) : Milan, Italy, 14-18 October 2024 / p. 322-332 <https://doi.org/10.52202/078376-0032> [Conference proceedings at Scopus Article at Scopus](#)

Cyber threats to space communications : space and cyberspace policies

Carlo, Antonio Outer Space and Cyber Space : Similarities, Interrelations and Legal Perspectives 2021 / p. 55–66 https://doi.org/10.1007/978-3-030-80023-9_4

Cyber vulnerabilities and risks of AI technologies in space applications

Breda, Paola; Abdin, Adam; Markova, Rada; Jha, Devanshu; **Carlo, Antonio**; Pelin Manti, Nebile IAC 2022 congress proceedings 2022 / art. 70380 <https://dl.iafastro.directory/event/IAC-2022/paper/70380/> [Conference proceedings at Scopus Article at Scopus](#)

Cybersecurity threats to space : from conception to the aftermaths

Bonnart, Sebastien; Capurso, Andrea; **Carlo, Antonio**; Dethlefsen, Thea Flem; Kerolle, Mclee; Lim, Jonathan; Pickard, Aaron; Russo, Antonia; Zarkan, Laetitia Cesari Space law in a networked world 2023 / p. 39–101 https://doi.org/10.1163/9789004527270_004

Doktoritöö: satelliitide turvalisus on jäänud ohtlikult vaeslapse ossa

Harrik, Airika; **Carlo, Antonio** novaator.err.ee 2024 [Doktoritöö: satelliitide turvalisus on jäänud ohtlikult vaeslapse ossa](#) <https://digikogu.taltech.ee/et/Item/aef0d0fa-b76a-431f-800a-0b6b2ba0da74> <https://doi.org/10.23658/taltech.32/2024>

Emerging technologies and space

Carlo, Antonio; Roux, Lucille Modelling and Simulation for Autonomous Systems : 8th International Conference, MESAS 2021, Virtual Event, October 13–14, 2021 2022 / p. 494-508 https://doi.org/10.1007/978-3-030-98260-7_32 [Conference Proceedings at Scopus Article at Scopus](#) [Conference Proceedings at WOS Article at WOS](#)

An extended review on cyber vulnerabilities of AI technologies in space applications: Technological challenges and international governance of AI

Breda, Paola; Markova, Rada; Abdin, Adam; Manti, Nebile Pelin; **Carlo, Antonio**; Jha, Devanshu Journal of space safety engineering 2023 / p. 447-458 : ill <https://doi.org/10.1016/j.jsse.2023.08.003> [Journal metrics at Scopus Article at Scopus](#) [Journal metrics at WOS Article at WOS](#)

Going digital, staying secure : cyber ERM activities in a post-pandemic setup

Carlo, Antonio; Casamassima, Francesca IAC 2022 congress proceedings 2022 / art. 70417 <https://iafastro.directory/iac/paper/id/70417/summary/> [Conference proceedings at Scopus Article at Scopus](#)

Going green, staying strong : an operational roadmap for “NATO Climate” legal and policy tools

Carlo, Antonio; Casamassima, Francesca; Costella, Giulia; Salmeri, Antonino NATO legal gazette 2022 / p. 47-58 https://www.act.nato.int/wp-content/uploads/2023/05/legal_gazette_43.pdf

Ground Station as a Service : a space cybersecurity analysis

Meyrick, Evan; Pickard, Aaron; Rahloff, Tobias; Bonnart, Sebastien; **Carlo, Antonio**; Thangavel, Kathiravan IAC 2021 congress proceedings 2021 / art. 66555 <https://dl.iafastro.directory/event/IAC-2021/paper/66555/>

Impact of space systems capabilities and their role as critical infrastructure

Carlo, Antonio; Breda, Paola International journal of critical infrastructure protection 2024 / art. 100680, 11 p. : ill <https://doi.org/10.1016/j.ijcip.2024.100680>

The importance of cybersecurity frameworks to regulate emergent AI technologies for space applications

Carlo, Antonio; Manti, Nebile Pelin; Bintang, A. S. W. A. M.; Casamassima, Francesca; Boschetti, Nicolo; Breda, Paola; Rahloff, Tobias Journal of space safety engineering 2023 / p. 474-482 : ill <https://doi.org/10.1016/j.jsse.2023.08.002> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

An international technical standard for commercial space system cybersecurity - a call to action

Falco, Gregory; Henry, Waybe; Aliberti, Marco; Bailey, Brandon; Bailly, Mathieu; Bonnard, Sebastien; Boschetti, Nicolo; Bottarelli, Mirko; Byerly, Adam; **Carlo, Antonio** ASCEND 2022 2022 <https://doi.org/10.2514/6.2022-4302>

Legal solutions for the peaceful, sustainable and strategic utilization of lunar resources

Salmeri, A.; **Carlo, Antonio** NATO legal gazette 2021 / p. 165-177 https://www.act.nato.int/wp-content/uploads/2023/05/legal_gazette_42.pdf

Modelling the impact of space situational awareness disruption on the European and Arctic security landscape

Carlo, Antonio; Boschetti, Nicolo Modelling and Simulation for Autonomous Systems: 9th International Conference, MESAS 2022, Prague, Czech Republic, October 20–21, 2022 : Revised Selected Papers 2023 / p. 299-311 https://doi.org/10.1007/978-3-031-31268-7_18 [Journal metrics at Scopus](#) [Article at Scopus](#)

Opportunities and challenges in the cyber-space nexus

Carlo, Antonio ispionline 2023 [Opportunities and challenges in the cyber-space nexus](#)

Regulatory frameworks for lunar resources exploitation and insights from deep sea mining practices

Bruseghello, Ilenia; **Carlo, Antonio**; Pessôa-Lopes, Isabel 22nd IAA Symposium on Visions and Strategies for the Future : held at the 75th International Astronautical Congress (IAC 2024) : Milan, Italy, 14-18 October 2024 2024 / p. 374-381 <https://doi.org/10.52202/078375-0046> [Conference proceeding at Scopus](#) [Article at Scopus](#)

Safeguarding the final frontier : analyzing the legal and technical challenges to mega-constellations

Jha, Devanshu; Manti, Nebile Pelin; **Carlo, Antonio**; Zarkan, Laetitia Cesari; Breda, Paola; Jha, Antara Journal of space safety engineering 2022 / p. 636-643 <https://doi.org/10.1016/j.jsse.2022.08.006> [Journal metrics at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Securing outer space through cyber : risks and countermeasures

Carlo, Antonio; Casamassima, Francesca IAC 2021 congress proceedings 2021 / art. 64939 <https://dl.iafastro.directory/event/IAC-2021/paper/64939/> [Conference Proceedings at Scopus](#) [Article at Scopus](#)

Security-by-design approaches for critical infrastructure : mapping the landscape of cyber and space law

Carlo, Antonio; Salmeri, Antonino NATO legal gazette 2021 / p. 97-113 https://www.act.nato.int/wp-content/uploads/2023/05/legal_gazette_42.pdf

Space as NATO's operational domain : the case of the cyberthreats against GNSS

Zarkan Cesari, Laetitia; **Carlo, Antonio**; Roux, Lucille; Toukebri, Raina; Pelin Manti, Nebile IAC 2021 congress proceedings 2021 / art. 66298 <https://dl.iafastro.directory/event/IAC-2021/paper/66298/>

Space industry : applications and implications of digital transformation

Carlo, Antonio; Casamassima, Francesca IAC 2021 congress proceedings 2021 / art. 65506 <https://dl.iafastro.directory/event/IAC-2021/paper/65506/> [Conference Proceedings at Scopus](#) [Article at Scopus](#)

The space-cyber nexus : ensuring the resilience, security and defence of critical infrastructure = Kosmose ja kübervaldkonna vaheline seos : elutähtsa taristu vastupanuvõime, julgeoleku ja kaitse kindlustamine

Carlo, Antonio 2024 https://www.ester.ee/record=b5687577*est <https://digikogu.taltech.ee/et/Item/aef0d0fa-b76a-431f-800a-0b6b2ba0da74> <https://doi.org/10.23658/taltech.32/2024>

This is our space: Contributions from the young generations for sustainable space activities

Lecas, M.; **Carlo, Antonio**; Mendoza, J.; Leterre, G.; Moraitis, N.; Owen, T.; Garcia Gonzalez, B.; Das, M.; Raghu, D. IAC 2022 congress proceedings 2022 / art. 190266 <https://dl.iafastro.directory/event/IAC-2022/paper/68775/>

Towards a resilient cyber architecture for space infrastructures : mitigating the new attack vectors

Carlo, Antonio; Pelin Manti, Nebile; Breda, Paola; Rollinde de Beaumont, Maelys; Jha, Devanshu IAC 2022 congress proceedings Proceedings of the International Astronautical Congress, IAC 2023 / art. 78079 <https://dl.iafastro.directory/event/IAC-2023/paper/78079/> [Towards a resilient cyber architecture for space infrastructures: mitigating the new attack vectors](#) [Conference at Scopus](#) [Article at Scopus](#)

Understanding space vulnerabilities : developing technical and legal frameworks for AI and cybersecurity in the spatial field

Carlo, Antonio; Pelin Manti, Nebile; A.S.W.A.M., Bintang; Casamassima, Francesca; Boschetti, Nicolo; Breda, Paola; Rahloff, Tobias IAC 2022 congress proceedings 2022 / art. 70406 <https://dl.iafastro.directory/event/IAC-2022/paper/70406/> [Conference proceedings at Scopus](#) [Article at Scopus](#)

The (un)predictable challenges and opportunities in a changing world

Carlo, Antonio; Pessôa-Lopes, Isabel; Bruseghello, Ilenia IAF Businesses and Innovation Symposium held at the 75th International Astronautical Congress (IAC 2024) : Milan, Italy, 14-18 October 2024 2024 / p. 354 - 362 <https://doi.org/10.52202/078383-0026>
[Conference proceedings at Scopus](#) [Article at Scopus](#)