



Brazilian Cybersecurity Symposium (SBSeg 2025)

## **Workshop**

# **Ethical dilemmas in cybersecurity and the impact of artificial intelligence**

1 September 2025  
Mabu Thermas Grand Resort Hotel  
Foz do Iguaçu, Brazil

2:00 p.m.	Opening and welcome remarks	Adriana Baravalle Rudolf Von Sinner Maria Eugenia Barroso
2:05 p.m.	<b>Panel I: Cybersecurity and Artificial Intelligence</b> <ul style="list-style-type: none"> <li>- Critical intersection between cybersecurity and artificial intelligence</li> <li>- Key ethical challenges in today's digital ecosystem</li> <li>- Transformation of security through AI technologies</li> </ul>	<b>Panelists:</b> <ul style="list-style-type: none"> <li>- Walter Agüero (virtual)</li> <li>- Alexandre Melo Braga</li> </ul> <b>Moderator:</b> <ul style="list-style-type: none"> <li>- Adriana Baravalle</li> </ul>
2:25 p.m.	<b>Panel II: Ethics and Cybersecurity in the Age of Artificial Intelligence</b> <ul style="list-style-type: none"> <li>- Surveillance and Digital Privacy</li> <li>- AI systems in cyber defence</li> <li>- Dilemmas of threat detection and response <ul style="list-style-type: none"> <li>• Balancing prevention and invasion of privacy</li> <li>• Automated decisions vs. human intervention</li> </ul> </li> <li>- Use of AI in vulnerability identification</li> <li>- Ethical responsibility in threat detection</li> <li>- Implications of predictive AI systems</li> <li>- Potential for discrimination in security systems</li> </ul>	<b>Panelists:</b> <ul style="list-style-type: none"> <li>- Adriana Baravalle</li> <li>- Alejandro Moresi (virtual)</li> </ul> <b>Moderator:</b> <ul style="list-style-type: none"> <li>- Rudolf Von Sinner</li> </ul>
2:45 p.m. - 3:05 p.m.	<b>Panel III: Emerging Ethical and Regulatory Frameworks</b> <ul style="list-style-type: none"> <li>- International principles of ethics in cybersecurity</li> <li>- Governance of AI systems in digital security</li> <li>- Challenges of transparency and explainability</li> <li>- Legal and ethical responsibility of systems</li> </ul>	<b>Panelists:</b> <ul style="list-style-type: none"> <li>- Kerlly dos Santos</li> <li>- Adriana Baravalle</li> </ul> <b>Moderator</b> <ul style="list-style-type: none"> <li>Maria Eugenia Barroso</li> </ul>
3:05 p.m. - 3:20	Coffee Break	

3:20 p.m. - 4:05 p.m.	<p>Workshop: Analysis of Ethical Cases in Cybersecurity and AI</p> <ul style="list-style-type: none"> <li>• Case 1: Predictive AI in internal threat detection</li> <li>• Case 2: Surveillance systems with facial recognition</li> <li>• Case 3: Automation of response to cyberattacks</li> <li>• Case 4: AI in personal security risk assessment</li> <li>• Case 5: Algorithms for identifying suspicious behaviour</li> </ul>	<p>Facilitators: Adriana Baravalle Kerlly dos Santos Alexandre Melo Braga</p>
4:05 p.m.	<p>Workshop: Collaborative development of ethical guidelines for cybersecurity with AI.</p> <p>Key topics:</p> <ul style="list-style-type: none"> <li>• Ethical principles of intervention</li> <li>• Limits of Technological Surveillance</li> <li>• Transparency and consent</li> <li>• Protection of Individual Rights</li> </ul>	<p>Facilitators: Adriana Baravalle Kerlly dos Santos Alexandre Melo Braga</p>
4:50 p.m.	Closing and next steps	<p>Adriana Baravalle Rudolf Von Sinner Maria Eugenia Barroso</p>



### **Walter Agüero**

Master's degree in Software Engineering and specialist in cybersecurity from Korea University. He is a PhD candidate in Computer Engineering and holds a bachelor's degree in Computer Science. He works as a computer expert in the Federal Court and as a lecturer and researcher at various Argentine universities, including the National University of Villa Mercedes, the University of Buenos Aires, the National University of Río Negro and the Siglo 21 Business University. His career combines forensic practice, teaching and research in technologies applied to digital security.

### **Adriana Baravalle**

Academic Director of synapsIA (Austral University) and CEO of 360AnalyticsAI. Researcher at the Joint Military Faculty of the Ministry of Defence (Argentina). Specialist in data governance, artificial intelligence and cybersecurity. She has received international awards in data mining competitions (1st place in Kyoto 2016 and Cambridge 2017), has numerous scientific publications and is a member of international organisations such as CoARA-CODATA (EU) and APNNS. She is a member of the Globethics pool of experts.

### **Alexandre Melo Braga**

Researcher at CPQD with a PhD and postdoctoral degree from UNICAMP in cryptography and secure software development. Since 2000, he has worked as a researcher, professor, and consultant in cybersecurity, applying his knowledge in various sectors such as banking, telecommunications, and government. His career includes research on topics such as IoT and Blockchain, resulting in several scientific publications and book chapters. Since 2015, he has been applying AI, ML and data science to solve software security and secure programming problems. He also holds CISSP and CSSLP certifications.

### **Kerlly dos Santos**

Computer engineer and specialist in public security management and intelligence, with over ten years of experience in the Civil Police of São Paulo. Member of the Brazilian Computer Society. She is affiliated with the University of São Paulo (USP), where she conducts research on artificial intelligence and network analysis applied to public security. Her career combines practical experience in digital crime and police intelligence with academic production in emerging technologies.

### **BM (R) Alejandro A. Moresi**

Director of the Master's Degree in Military Strategy at the Joint War College, part of the National Defence University (Argentina). He has a solid background in the military and academic fields, specialising in strategy, security and defence.

### **Rudolf von Sinner**

Doctor of Theology from the University of Basel (Switzerland). Full professor at the Pontifical Catholic University of Paraná (PUCPR), where he directs the Postgraduate Programme in Theology. He was also dean and researcher at the EST Faculty, where he founded the Institute of Ethics. He has been a researcher at Princeton, Göttingen and Munich. His areas of research include public



theology, political ethics and bioethics. Member of the Board of Directors of Globethics and its pool of experts.

**Maria Eugenia Barroso**

Regional Manager of the Globethics Centre for Latin America and the Caribbean. Since January 2020, she has led initiatives in applied ethics in higher education, science, innovation and public policy in the region. She has more than a decade of experience in international cooperation and the promotion of ethical leadership, strengthening strategic alliances with academic institutions and government agencies throughout Latin America.

**This initiative is supported by:**

