



Dr. Eng. Zdzisław Pólkowski

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Professor | Researcher | International Academic Leader | Cybersecurity, AI, Sustainable Technologies & Digital Transformation Expert

Dr. Eng. Zdzisław Polkowski is a Professor at Jan Wyżykowski University in Polkowice, Poland, where he serves as the Rector's Representative for International Cooperation and the Erasmus+ Programme. He is also a Professor at WSG University in Bydgoszcz, Poland, holding the position of Rector's Representative for International Cooperation. He combines academic leadership, scientific research, digital innovation, cybersecurity expertise, and practical business experience in the areas of Artificial Intelligence, sustainable digital transformation, cybersecurity, smart technologies, and advanced information systems.

He has over 30 years of professional experience in higher education, international scientific cooperation, IT consulting, and innovation management. In parallel with his academic activity, he is the founder and owner of CompExpert, an IT consulting and digital transformation company operating in Poland since 1990. Through this activity, he has implemented numerous projects related to cybersecurity, cloud computing, IT infrastructure, digital transformation, Business Intelligence, e-government, and advanced ICT services for enterprises and public administration.

Dr. Polkowski is a Certified ISO/IEC 27001:2022 Lead Auditor and Internal Auditor specializing in cybersecurity governance, information security management systems, IT risk management, GDPR compliance, digital resilience, and protection of critical infrastructure. His expertise particularly focuses on the resilience and security of digital systems supporting modern organizations, public administration, and smart infrastructures.

He has authored and co-authored over 200 scientific publications, including journal articles, conference papers, book chapters, and edited scientific volumes published mainly in English by internationally recognized publishers such as Springer Nature, CRC Press, Taylor & Francis, Wiley, IGI Global, and De Gruyter. His scientific achievements include publications indexed in Web of Science, Scopus, DBLP, and IEEE Xplore. He has also co-edited over 80 international scientific books and conference proceedings in the areas of Artificial Intelligence, cybersecurity, cloud computing, IoT, sustainable technologies, data science, Business Intelligence, and digital transformation.

His interdisciplinary research profile integrates:

- Cybersecurity and Information Security,

- Artificial Intelligence and Machine Learning,
- Sustainable and Green Technologies,
- Smart and Resilient Digital Infrastructure,
- Cloud, Fog and Edge Computing,
- Internet of Things (IoT) and Green IoT,
- Business Intelligence and Advanced Data Analytics,
- Digital Transformation and Innovation Management,
- Smart Cities and Intelligent Urban Systems,
- Environmental Sustainability and Green Computing,
- Energy-related Digital Systems and ICT Solutions,
- Educational Technologies and Digital Learning Systems,
- IT Systems in Business and Public Administration.

Dr. Polkowski has extensive experience in interdisciplinary international projects combining sustainability, digital transformation, cybersecurity, AI, and advanced ICT methodologies. His scientific and professional activities focus on the integration of intelligent technologies with sustainable development and resilient infrastructure concepts.

He has delivered more than 95 invited keynote speeches and expert lectures at international conferences worldwide. He actively participates in scientific collaborations across Europe, Asia, the Middle East, and Africa, cooperating with universities, research institutes, innovation centers, and international academic networks in over 30 countries.

His recent scientific work includes research related to intelligent digital ecosystems, AI-supported decision-making systems, blockchain technologies, sustainable digital transformation, smart infrastructure, data-driven resilience, cybersecurity of distributed systems, and advanced analytical approaches for complex socio-economic environments.

In addition to his scientific activity, Dr. Polkowski has extensive practical experience in business process optimization, implementation of advanced IT systems, strategic digital transformation, and ICT-based innovation development. His professional profile combines academic research with real-world implementation of modern digital and cybersecurity solutions.

In 2023, he was selected by the Polish Ministry of Science and Higher Education for the prestigious "Leaders in University Management" programme at the University of Cambridge, United Kingdom, recognizing his achievements in academic leadership, innovation management, and international cooperation.

Research Profiles:

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