

# Invitation to Attend SDPS 2024 Conference, Bologna, Italy, 6-9 October 2024 <https://genai4dps.github.io/advances-challenges/> Insights for Industry Challenges in AI/GenAI Design and Process for Industry

We invite companies from various sectors to attend the SDPS 2024 Conference, and debate current challenges in applying AI/GenAI, and comment on future trends and expectations we may have from the AI technologies.

The SDPS <https://www.sdpsnet.org/sdps/> has been at the forefront of transdisciplinary research, transformative science and engineering for almost 30 years. Our international events are forums for challenging advances in process and design science, software technologies, computing and their impact on research, education, and industry. <https://www.sdpsnet.org/sdps/index.php/about-sdps/history>

Academia and Industry are faced with generational challenges in Artificial Intelligence, not seen since the Industrial Revolution. As the AI/GenAI community creates vast new and novel opportunities at a merciless velocity, it consequently, creates challenges with **lack of understanding, immature designs, processes, research and engineering**, while exposing gaps in formal **AI/GenAI** design/process education.

Other resulting factors include a general fear of unknown AI/GenAI technologies, as well as system ambiguity and disguised complexities. It is imperative to

- ✚ mitigate these factors in critical environments (**automation, medical, financial, cyber defence, supply chain and many more**) or otherwise
- ✚ invite possibilities of **irreparable harm** or damage emerging from employing substantially increased levels of AI/GenAI in automation/ autonomy.

## More Questions to Debate

We will focus to the **EU initiatives** on boosting research and industrial capacity in relation to AI:

- ✚ Does your company enjoy the benefits of trustworthy AI which serves your business model, respects EU values and rules?
- ✚ Would you collaborate with AI start-ups in your region, and will you benefit from them?
- ✚ Have you heard of GenAI4EU? Do you use GenAI and thus becoming a part of EU strategic industrial and large open innovation systems for fostering collaboration between AI startups and deployers of AI in industry/ public sector.
- ✚ Are you aware of the EU regulatory framework on AI and How likely is it that they help?
- ✚ Have you covered, within your companies, all levels of risks associated with the development of and using existing solutions based on AI?

EU claims that we can **build trustworthy AI** which could result in a safe and innovation-friendly environment for users, developers and deployers.

- ✚ How likely is it that the trustworthy AI can be built?
- ✚ Have you covered, within your companies, all levels of risks associated with the development of and using existing solutions based on AI?

Therefore, to better serve modern business leaders, with guidance to innovate, mitigate risk, capitalize on novel advancements in AI/GenAI and address all EU initiatives, the SDPS is uniquely bringing together the advanced academic research community with industry to more qualitatively harness the power of formal AI/GenAI Design and Process to accelerate Science and Business. Our joint panels may discuss a range of issues of using AI/GenAI in Manufacturing, Automation, Transportation, Logistics/Supply Chain Management, Smart Cities, Medicine, Pharmaceuticals, Natural Sciences, Governance and Education.

For any questions, please contact program committee chairs.

<https://genai4dps.github.io/advances-challenges/committees/>