

3RD INTERNATIONAL CONFERENCE ON AI ML, DATA SCIENCE AND ROBOTICS

JUNE 26-27, 2023 | Mercure Roma West, Rome, Italy



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Generative AI and Autonomous Agents: Opportunity and Risks

Recent advances in generative AI and machine learning have enabled systems like ChatGPT to produce increasingly human-like text. ChatGPT and its successors represent an exciting opportunity to expand human creativity and productivity, but they also pose real risks and concerns that must be addressed. These generative AI systems are able to generate plausible paragraphs, articles, images, and more on any topic or in any style based on analyzing massive amounts of data. They can complement and augment human abilities, helping people write faster, develop new creative ideas, and produce content at scale. By enabling AI agents to take over more routine and repetitive forms of manual work, human lives may be enriched with increased leisure time and opportunity for meaningful work.

However, there are valid worries about bias and unfairness being reinforced or even amplified in generative AI models due to flaws in training data or algorithms. There are also concerns that these systems could be used to generate spam, scams, fake content, and manipulate public opinion at scale. As the technology improves, there may be concerns about AI systems developing their own objectives and goals that differ from human values and priorities. While ChatGPT and similar models represent an exciting new frontier of capability, they must be developed and applied carefully and ethically. Partnerships between humans and AI agents could help maximize the benefits of generative AI while mitigating the risks, but it will require proactive safeguards and oversight. Policies and guidelines should aim to ensure that generative AI progresses in a way that is aligned with human judgment, enhances trust in information, and supports human dignity and well-being. With proper stewardship, generative AI can positively transform our world, but we must be vigilant and thoughtful in how we develop and deploy this powerful technology. The opportunity of ChatGPT comes with real responsibilities that cannot be ignored. With concerted action, the future of generative AI can be shaped for the benefit of humanity.

Keywords: Generative AI, Autonomous Agents, AI Ethic

Biography:

Dr. Rosario Moscato has a master's degree in Electronic Engineering (Federico II University, Naples) as well as a second level master in Internet Software Design (CEFRIEL, Milan). He also has a Diploma in Apologetics (Pontifical Athenaeum Regina Apostolorum, Rome) and a first level master in Science and Faith (Pontifical Athenaeum Regina Apostolorum, Rome). Rosario has gained about 25 years of experience, always focusing his attention on the development and fine-tuning of the most innovative technologies in various international companies in Europe and Asia, covering various highly technical, commercial and business development roles.

In recent years, his interest has focused exclusively on Artificial Intelligence and data science, pursuing, on one hand, the goal of enhancing and making every business extremely competitive by introducing and supporting machine and deep learning technologies and on the other hand, analyzing the ethical-philosophical implications deriving from the new scenarios that these disciplines open up. Rosario has authored two books and he is a speaker at international research centers and conferences as well as a trainer and technical/scientific consultant on the huge and changing world of AI.