

Artificial Intelligence & Machine Learning

November 17-18, 2025 | London, UK



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The AI Revolution - and our Responsibility for the Future of Humans, Organizations and Machines

AI systems permeate all aspects of life and represent the greatest cultural revolution since the invention of printing. Strong AI systems have their own consciousness. They are increasingly developing competencies which are difficult to distinguish from human intelligence in terms of how we perceive them. This requires a new understanding of human responsibility for the future of creation, based on the Hybrid Intelligence Approach: humans, organizations, and machines - all exist as digital shadows (twins) in their parallel world being constantly connected to each other. We have to proactively shape this complexity at the different levels of human communication, interaction between organizations, and the global coupling of machines. These tasks need to be performed with the ultimate primacy of human responsibility at all levels of society—family, communities, businesses, and politics. They result in spaces of shared hybrid consciousness between humans, organizations, and machines, and their respective digital shadows. They may also lead to the introduction of dialogue-based AI systems as separate legal systems and to the further development of ethical foundations for independently operating AI systems. Hence, humanity in the near future needs human reasoning and reflection when trusting AI. It means to continuously fight the system's tendency for hallucinations and fake information, by employing human agility and emotional awareness. These processes illustrate the democratic alternative to today's wide-spread dominance of AI-controlled human identity. But how are we keeping on being humans when human-human dialogues are increasingly getting replaced by human-AI dialogues while AI is perfectly simulating to be human? Hence, genuine cooperation between humans, organizations, and technology will always depend on the quality of the relationships between the people themselves involved.

Keywords

Hybrid Intelligence Approach, Consciousness of Humans-AI Systems, Hallucinations, Ethics

Biography

Klaus Henning has over 40 years of professional experience. For 25 years, he was head of the largest institute cluster for cybernetics (Cybernetics Lab) at RWTH Aachen University. He was member of the VDI Presidium for several years, furthermore Vice-Rector for Finance, and subsequently, Dean of the Faculty of Mechanical Engineering, at RWTH Aachen University. Together with two colleagues, he coordinated the German Chancellor's Future Dialogue "How do we want to live?" from 2011 to 2012. Today, he is an independent consultant and coach for complex change and transformation processes.