

INVITED SESSION SUMMARY

Title of Session:

The Next Frontier in Human–Machine Cooperation: From AI to Generative Intelligence

Name, Title and Affiliation of Chair:

Dr Milan Simic, *School of Engineering, RMIT University, Melbourne, Australia*

Details of Session (including aim and scope):

1. **Evolution from traditional AI to generative intelligence**
2. **New collaboration models:** humans and intelligent systems jointly perform cognitive, creative, and other tasks.
3. **Evolving frameworks for cooperative intelligence:** machines supplement rather than replace human capabilities.
4. **Practical applications:** in industry, education, healthcare, engineering, legal, business and any other domains.
5. **Analyses of human issues** such as trust, transparency, interpretability, explainability and any other user experience with AI.
6. **Ethical, moral and societal challenges**, including bias, misinformation, deepfake and responsible deployment.
7. **Hybrid systems** combining symbolic AI, machine learning, and generative reasoning.
8. **Showcase experimental results and case studies** that demonstrate effective human–AI collaboration.
9. **New research directions** in interactive, multimodal, and self-improving AI systems.
10. **Discuss advances in autonomy** where AI systems take initiative while keeping humans in control. Example: autonomous vehicles' various levels of automation.
11. **Implications to workforce transformation** and human roles in AI dominated environments.
12. **Challenges and future milestones** needed to achieve seamless human–machine cooperation

Main Contributing Researchers / Research Centres (tentative, if known at this stage):

Dr Milan Simic, School of Engineering, RMIT University, Melbourne, Australia

Website URL of Call for Papers (if any):**Email & Contact Details:**

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