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Nuclear Operators' Forum: Pioneering the Deployment of AI Applications in Nuclear Power Plants

Side Event during the 68th IAEA General Conference
17 September 2024, 11:00 – 13:00, Room CR-3, C building, 7th floor

Artificial Intelligence (AI) opens new possibilities for enhancing nuclear power plant performance and human productivity. AI can be a driver of emerging technologies to transform nuclear power plant operation and to achieve our net zero goals.

With investigations into the implementation of AI around the world, the panel discussions will consider the transformative potential of AI in shaping the future of nuclear energy and present valuable perspectives on the impact it is already having on our industry.

Scientific Secretary: Nelly Ngoy Kubelwa, IAEA Department of Nuclear Energy

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Event Programme

Opening Address	Mr Rafael Mariano Grossi IAEA Director General
Showcase of deployed AI applications	
Panellists	Ms Satu Katajala Director of the Paris Centre, WANO Mr Alexander Prokhorov Scientific Supervisor and Advisor on the Implementation of AI-based Technologies Rosenergoatom, Russian Federation Mr Abdulrahman Mohamed Habib Aljailani Director of Digital Transformation and Architecture, NAWAH, United Arab Emirates Mr Wenqing Yao Senior I&C Engineer, CNPE, China
Moderator	Ms Nelly Ngoy Kubelwa Nuclear Engineer (I&C), Nuclear Power Engineering Section, IAEA Department of Nuclear Energy
Showcase of deployed AI applications	
International Network on Innovation to Support Operating Nuclear Power Plants (ISOP) Awards Ceremony	Mr Shin Whan Kim Head of the Nuclear Power Engineering Section, IAEA Department of Nuclear Energy
ISOP Awardees	Artificial Intelligence, Machine Learning and Large Language Models: Ms Jing Li (CNPE/China) Advanced Manufacturing: Mr Vivek Agarwal (INL/USA) Robotic and Drone Applications: Mr Justin Fernandes (Kinectrics/Canada) Other: Mr Harry Strahley (Southern Nuclear Company/USA) and Mr Harry Sim (Cypress Envirosystems, Inc./USA)
Moderator	Mr Ed Bradley Team Leader, Nuclear Power Engineering Section, IAEA Department of Nuclear Energy
Closing Remarks	Mr Mikhail Chudakov Deputy Director General, Head of the IAEA Department of Nuclear Energy