

[Track4] AI Application for Nuclear Fuel

• MACHINE LEARNING TECHNIQUES FOR THE OPTIMIZATION OF LIGHT WATER REACTOR FUEL MANAGEMENT

Johan Hammarström(Westinghouse Electric Company),Sai Praneeth Ravi(Westinghouse Electric Company),Mohab Ali(Westinghouse Electric Company)

• Implementation of AI based solutions in Framatome FUEL activities

Johann Plancher(Framatome SAS),Thomas Bajat(Framatome SAS),Greg Hobson(Framatome Inc.),Lars Ackermann(Framatome GmbH),Krzysztof Marcinkiewicz (Framatome GmbH)

• Westinghouse Fuel Vision – Next Generation AI Application for Visual Inspections

Björn Andersson(Westinghouse Electric Sweden AB),Erik Angland(Westinghouse Electric Sweden AB),Johan Hammarström(Westinghouse Electric Sweden AB),Jonathan Nilsson(Westinghouse Electric Company),Rachael Nadine McClaskey(Wolf Creek Generating Station)

• Development of a Surrogate Model for the study of Pellet-Cladding Mechanical Interaction in Light Water Reactors

Alessia Foschini(Alma Mater Studiorum - Università di Bologna),Marco Barbieri(Alma Mater Studiorum - Università di Bologna),Mattia Massone(ENEA),Simone Gianfelici(ENEA),Janne Heikinheimo(VTT Technical Research Center of Finland)

• Molecular Dynamics Study of Cs Diffusion in UO₂ Using a Machine Learning Interatomic Potential

Jiwoo Kim(KAIST),Ho Jin Ryu(KAIST)