
19th EURADOS Winter School

“Artificial Intelligence and Machine Learning in ionizing radiation dosimetry”

February 19th, 2026

EURADOS Annual Meeting

Helsinki, Finland

Agenda

19th EURADOS Winter School <i>“Artificial Intelligence and Machine Learning in ionizing radiation dosimetry”</i>		
Time	Presentation Title	Speaker
9:00	Welcome	Jon Eakins (UKHSA)
9:05	Introduction to AI and basic concepts	Weibo Li (BfS)
9:35	Pros vs cons, common pitfalls and ensuring QA in AI	Giorgia Stendardo (ISS)
10:05	AI tutorial and step-by-step Excel / Python examples	Paolo Ferrari (ENEA)
10:35	Coffee Break	
11:00	Artificial Intelligence in radiation dosimetry	Hans Rabus (PTB)
11:30	Large language models for practice optimization in nuclear medicine theranostics	Kuangyu Shi (Bern University)
12:00	AI as the future of Monte Carlo modelling: Energy-shifting, a new generic approach for fast radiotherapy dose calculation	Chi-Hieu Pham (Brest University)
12:30	Lunch	

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12:30	Lunch	
13:30	AI in radiation protection in diagnostic radiology	Mika Kortensniemi (Helsinki University)
14:00	Artificial Intelligence in Internal Dosimetry: Mechanisms, Models, and Multiscale Applications	Shaheen Dewji (Georgia Institute of Technology)
14:30	What might the future look like for AI in dosimetry?	Daniele Giuffrida (FANR)
15:00	EURADOS Research Presentations: <i>CR39 detector image segmentation using Meta's Mask R-CNN</i> <i>Development of ANN-based Dose Conversion Models for Retrospective Dosimetry in External Exposure Scenarios</i> <i>Compressing Radiation-Transport Simulations using neural networks</i> <i>Estimating uncertainty and demonstrating reproducibility in a practical machine learning model</i>	Jeppe Brage Christensen / Alberto Stabilini (PSI) Hyoungtaek Kim (KAERI) Felix Lehner (PTB) Max Taylor (UKHSA)
15:40	Final remarks	Teemu Siiskonen (STUK)
15:45	Close of Winter School	

General Remarks

- Please wait for microphone when asking questions
- Please feel free to come along to the meeting immediately following this on new Task (*Joint with all WGs*)

New Task Group: AI / ML in Dosimetry

Kick-off meeting

Room 101ab, 16:00-17:00, 19th February 2026

- Please enjoy what promises to be a very interesting and informative day
- Please don't be afraid of AI...

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Technology

AI safety leader says 'world is in peril' and quits to study poetry



GETTY IMAGES

Liv McMahon
Technology reporter

1 hour ago

An AI safety researcher has quit US firm Anthropic with a cryptic warning that the "world is in peril".

In his resignation letter shared on X, Mrinank Sharma told the firm he was

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They met while pregnant but their babies never came home maternity failings at NHS trust

<https://www.bbc.co.uk/news/articles/c62dlvdq3e3o>

12th February 2026

**Let's hope we leave
with a more positive
view after today..!**

ChatGPT:

Create a poem on the safety
of AI for radiation dosimetry



*In clinics with lead and with care,
Where photons fly here and fly there,
An AI checks dose,
Keeps patients from close
Excess that could harm or impair.*

*It audits each beam that we plan,
For child, elder, woman, or man,
With models precise,
And margins of twice
The safety a human alone can.*

*So guided by physics and code,
Through data securely bestowed,
It watches each gray,
Keeps error at bay,
And lightens radiological load.*