



Hereford & Worcester Physics Centre: Evening Lecture Programme 2022

13th October 2022



Professor Per Kristian Lehre
University of Birmingham

Is Evolution an Efficient Algorithm?

Computer scientists have since the 1960s taken inspiration from biological principles of natural selection when designing algorithms. So-called evolutionary algorithms have seen practical success in diverse application areas, including scheduling, logistics, drug design, and the automotive industry. In this talk, we ask the question: How fast are evolutionary algorithms? Do they find optimal solutions efficiently, or is it just a form of random search?

Venue

Edward Elgar Building
University of Worcester
St John's Campus
Worcester WR2 6AJ



8th November 2022



Sophie Allan
National Space Academy

The James Webb Telescope: The Ultimate Space Detective!

Following its successful launch on Christmas Day 2021, the largest telescope ever launched into space has been going through a nail-biting series of deployments, calibrations, and embarking on an epic 1.5 million km mission to its final observation point. In this talk we will explore the science that the James Webb space telescope will perform, the importance of the L2 Lagrangian point for telescope observations, space freezers, cosmic time machines and more. TICKET ONLY EVENT.

Venue

Huntingdon Hall
Worcester
WR1 3LD



6th December 2022



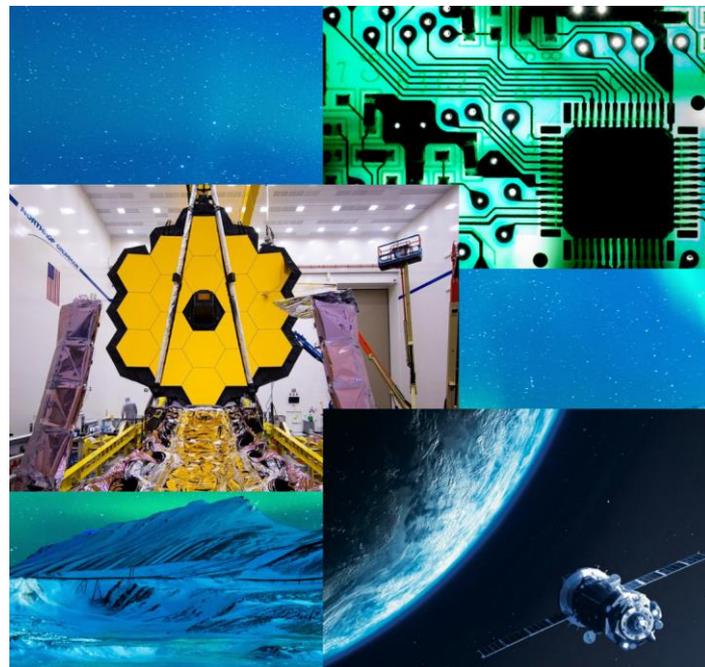
Professor Tim Wright
University of Leeds

Monitoring our Hazardous Planet from Space

Nearly 1 million people have died as a result of earthquakes in the last 20 years, and hundreds of thousands of people have been evacuated from their homes due to volcanic activity. In this talk, Prof Tim Wright will highlight the work of scientists in the UK's Centre for the Observation and Modelling of Earthquakes, Tectonics and Volcanoes (COMET), who are at the forefront of international efforts to observe and monitor our hazardous planet from space.

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There may also be several additional lectures added to this series after this programme is published. Please check www.iop.org/events for the latest information.



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