



The Abdus Salam
**International Centre
for Theoretical Physics**



2024 EAUMP-ICTP School on the Mathematics of AI

in collaboration with AMU, CIMPA and ISP

DESCRIPTION:

The school presents a distinctive opportunity to explore the foundational mathematics of artificial intelligence (AI).

MORE INFORMATION:

By convening experts in diverse fields, encompassing data assimilation, inverse problems, statistics, control theory, and graph theory - integral components of the mathematical machinery driving successful AI systems - the school offers participants a comprehensive perspective. Engaging lectures and workshops will cover key topics such as mathematical modeling of AI algorithms, optimization techniques, and the theoretical underpinnings of machine learning.

Positioned centrally in Kampala, this inclusive curriculum provides a dynamic platform for students and researchers to deepen their comprehension of the Mathematics of AI, fostering collaboration and knowledge exchange in the heart of Africa.

LOCAL DIRECTORS:

E. BAINOMUGISHA, Uganda
G. KAKUBA, Uganda
J. KASOZI, Uganda
B. N. KIVUMBI, Uganda
J. MANGO, Uganda
G. MIRUMBE, Uganda
J. NABENDE, Uganda
A. B. TUMWESIGYE, Uganda

SPEAKERS:

Week 1
J. DE WILJES, Germany
J.-H. DE WILJES, Germany

Week 2
M. MOORES, Australia
A. MIRA, Switzerland/Italy

Week 3
L. ROININEN, Finland
D. NDANGUZA, Rwanda
D. RANIRINA, Rwanda
A. KATUMBA, Uganda

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8 - 26 July 2024



**Makerere University,
Kampala, Uganda**



**Deadline:
1 April 2024**

INTERNATIONAL DIRECTORS:

L. ROININEN, Finland
B. SZENDROI, Austria
S. LUKETERO, Kenya
B.-O. TURESSON, Sweden
P. VADERLIND, Sweden

ICTP SCIENTIFIC CONTACT:

E. CARNEIRO, Italy

FURTHER INFORMATION:



E-mail: smr3956@ictp.it

Web: <https://indico.ictp.it/event/10494/>

Female scientists are encouraged to apply.

GRANTS:

A limited number of grants are available to support the attendance of selected participants, with priority given to participants from developing countries. There is no registration fee.

