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Τετάρτη
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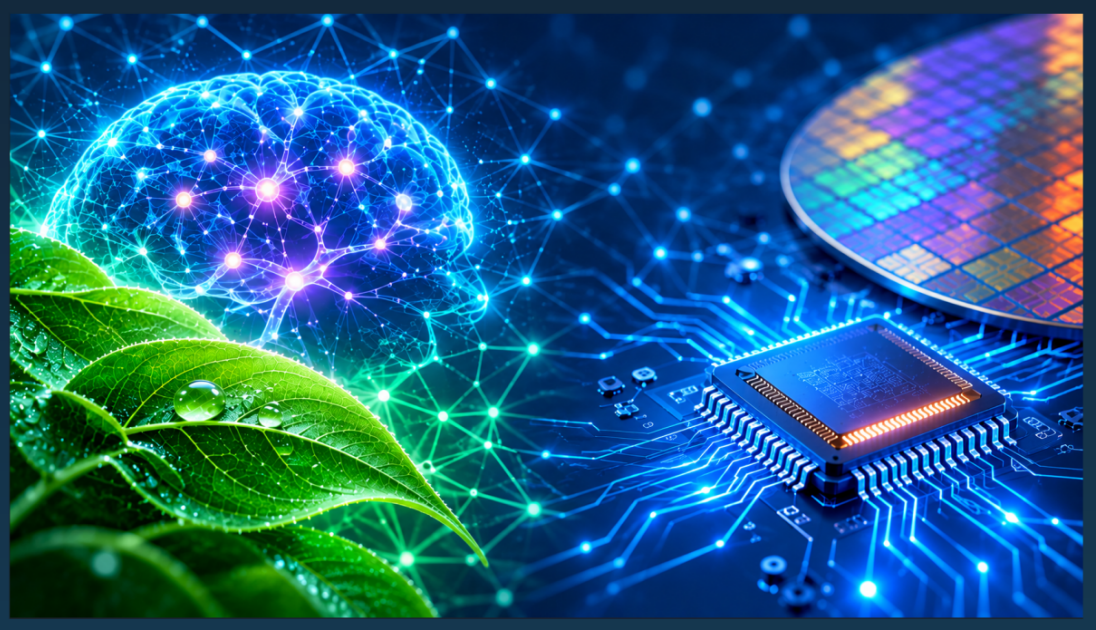
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Αριστοτέλειο Πανεπιστήμιο Θεσσαλονίκης
ΤΜΗΜΑ ΦΥΣΙΚΗΣ

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ΓΝΩΣΗ ΚΑΙΝΟΤΟΜΙΑ ΠΟΛΙΤΙΣΜΟΣ

Innovations across AI and Semiconductors



Prof. Themis Prodromakis

University of Edinburgh

The 21st century is defined by increasingly intelligent machines and a drive to use them for augmenting human capability. On one side, developments in Artificial Intelligence (AI) are more and more inspired by nature's efficiency and capitalize on innovations in semiconductor technologies. On the other hand, advances in electronics are increasingly assisted through the use of AI tools and capabilities that accelerate the design, manufacturing, modelling and testing cycles of next generation electronics and semiconductor technologies. In this talk Professor Prodromakis will present a few examples across the AI and Semiconductor remits, including memristor-based AI hardware and the latest work of the APRIL AI Hub.

Prof. Themis Prodromakis holds the Regius Chair of Engineering at the University of Edinburgh, where he established the Centre for Electronics Frontiers and leads the Institute for Integrated Micro and Nano Systems. His research focuses on memristive technologies, emerging nanoelectronic devices and energy-efficient AI hardware. He leads a multidisciplinary team of around 60 researchers and is the founder of ArC Instruments Ltd and EVA. He is a Fellow of several professional institutions and has received prestigious recognitions, including the 2021 Blavatnik Award UK Honoree in Physical Sciences and Engineering and the 2025 Royal Academy of Engineering Princess Royal Silver Medal.

