

CSIR CENTRE FOR EMERGING DIGITAL TECHNOLOGIES FOR THE FOURTH INDUSTRIAL REVOLUTION

Driving South Africa's digital
future through innovation



OVERVIEW

We empower South Africa's digital transformation by reducing risk and accelerating the adoption of emerging technologies. Through advanced research and technology development, we provide building blocks that enable government and industry to embrace digital disruption, ensuring local enterprises remain competitive, innovative and future-ready.

VALUE PROPOSITION

Our centre helps organisations navigate the fourth industrial revolution (4IR) through the delivery of:

- Research-driven insights for informed decision-making;
- Cutting-edge tools and platforms to boost efficiency and transparency; and
- Future-proof solutions for long-term sustainability in a fast-changing digital economy.

UNIQUE CAPABILITIES

Our team specialises in key 4IR technologies, including:

- Artificial intelligence (AI);
- Extended reality (XR);
- Internet of things (IoT); and
- Distributed ledger technologies (Blockchain and cryptocurrencies).

These areas are essential for digital disruption across industries, enabling businesses to transition from legacy systems to advanced, smart platforms.

SPEED AND AGILITY

Our centre excels in rapidly developing scalable, adaptable technology platforms that can be seamlessly integrated across various industries. By combining our expertise with advanced research facilities, we provide real-world demonstration tools to accelerate adoption.

For more information or to schedule a consultation, please contact:

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www.csir.co.za



science, technology
& innovation

Department:
Science, Technology and Innovation
REPUBLIC OF SOUTH AFRICA



CSIR
Touching lives through innovation

ACCESSIBILITY AND COLLABORATION

Our centre is accessible to both public and private entities through a collaborative research approach. We offer platforms for demonstration, testing and implementation, allowing seamless integration of cutting-edge solutions into existing workflows.

OUR COMPETITIVE ADVANTAGE

- Neutral, vendor-independent recommendations tailored to your needs;
- Rigorous testing and real-world demonstration platforms; and
- Scalable, adaptable solutions for rapid deployment.

THOUGHT LEADERS IN 4IR RESEARCH

The centre is a thought leader in the 4IR domain, having already developed AI-based tools that enhance decision-making, IoT systems that support new business models, improve industrial automation and safety, and technologies to support the advancement of cryptocurrencies and blockchains in regulation and private and public sector adoption.

MEET OUR CENTRE LEADER

Professor Adnan Abu Mahfouz

Prof. Adnan Abu Mahfouz is a distinguished research and innovation leader with more than 20 years of experience in research, development and innovation (RD&I), strategic leadership, as well as technology commercialisation.

He is a Professor Extraordinaire at leading universities and has been ranked among the top 2% of scientists since 2020. He holds an MEng and a PhD in computer engineering from the University of Pretoria.



REASONS WHY YOU SHOULD ENGAGE WITH US TODAY

- Unmatched expertise: We offer a world-class team with deep expertise in 4IR technologies;
- Rigorous testing: Our platforms undergo rigorous testing to ensure seamless integration and performance;
- Innovative solutions: We deliver future-proof digital solutions designed to boost efficiency and competitiveness; and
- Trusted partner: Our neutrality and independence ensure that you get the best, unbiased technology recommendations.

Partner with us to future-proof your business.

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