

i-EDGE

A miniaturised rugged
sensor/actuator platform

Jens Bolten

Business Interest Group Webinar

4 Oct 2023



Introduction

- **Short introduction of participants**

- **Programme**

11:00 Introduction

Dr. Jens Bolten (AMO GmbH)

11:10 i-EDGE NEM Switch Technology and Integration Platform

Prof. Dinesh Pamunuwa (University of Bristol)

11:25 NEM Switch device plans and potential applications

Piers Tremlett (Microchip Technology Caldicot Ltd.)

11:50 Interactive discussion

12:50 Meeting wrap up

13:00 End of the workshop

- Please feel free to ask short questions of understanding during the presentations
- More profound questions can be discussed in the interactive session following them

What is i-EDGE?

- i-EDGE is a research project
- Jointly funded by the EU, UK and CH
- Eight partners, three Universities, two large industry companies, three SMEs
- Our goal: To enable edge computing for harsh environments
- Achieved by replacing conventional CMOS electronics, with limited tolerance for harsh environmental conditions, with more robust nanoelectromechanical relays
- Hence, somewhat simplified, replacing transistors by nano-scale electro-mechanical switches
- Based on a previous research project, ZeroAMP, we are now moving towards commercialisation of our Technology

Scope of this webinar

- Learn about our Business Interest Group (BIG)
- Learn about our technology and what we will do with it
- Learn about the environments and applications we are targeting

- Discuss our technology and use cases you have in mind for it with us

- Raise your interest in joining our BIG
- Make you a part of i-EDGE
 - Guiding us towards the commercialisation of our technology
 - Become an early adaptor of i-EDGE technology for your applications and use cases
 - Make i-EDGE a part of the solution of your edge computing challenges

What is the i-EDGE Business Interest Group?

- The i-EDGE Business Interest Group (BIG) is an external advisory board
- BIG member will be regularly update on the progress we make
 - Webinars
 - Newsletters
 - Report
- BIG provides guidance for the project
 - Technology
 - Manufacturability
 - Business strategy
 - Initial use cases / applications
- No competitive overlap in the BIG, only one BIG member per market area
- Future BIG activities will be covered by an NDA

Why should you join the i-EDGE BIG?

- BIG members receive regular updates on the project status
- Enabling them to assess the potential of i-EDGE technology
- Chance to support a technology to mature from lab into fab & from science to the market
- Shape its form to fit to your use cases and applications
- Opportunity to become an early adaptor of a technology enabling edge computing in environments which are not accessible to conventional CMOS-based electronics
- Use our technology to address your challenges in edge computing for harsh environments

Next presentation

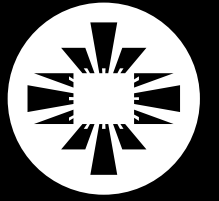
- i-EDGE NEM Switch Technology and Integration Platform

Dinesh Pamunuwa

Professor, University of Bristol Royal Academy of Engineering Senior Research Chair



i-EDGE
EDGE COMPUTING FOR
EXTREME ENVIRONMENTS



www.i-edge-project.eu 

[i-edge-project](#) 



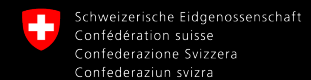
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