

ACCREDITATION



IT'IS and SPEAG Achieve ISO 17025 (Re-)Accreditation!

The growing demand for customized research services that require non-standardized, specialized exposure assessments prompted the IT'IS Foundation Test Laboratory to obtain C-accreditation, empowering IT'IS to develop and validate

specialized phantoms and procedures in compliance with ISO 17025. At the same time, SPEAG's Calibration Laboratory's accreditation was renewed and is valid until 2029, which will mark 25 years of continuous accreditation.

MEASUREMENTS

DASY8/6 Module R&D V1.2 Now with MAGPy Integrated!



The DASY8/6 Module R&D now fully supports near-field measurements with the MAGPy probe, which expands the system to be able to handle any 1D, 2D, 3D, or time scan of magnetic and electric fields in the 3 kHz to 110 GHz frequency range. The latest release also introduces seamless compatibility with the Sim4Life computational platform, facilitating efficient validation of numerical models directly from measurement data. Explore the latest [video](#) and discover how V1.2 can elevate your R&D projects!

SIMULATIONS

Sim4Life V8.2: Future-Ready, with Enhanced UX and Increased Speed

The new Sim4Life V8.2 release is here! In the cloud and on your desktop, Sim4Life V8.2 features enhanced navigation, seamless project organization and sharing, and a suite of powerful new tools! Additionally, anatomical models and electromagnetic phantoms in pre-defined postures are available for quick download for effortless integration into your simulations. Discover all of the latest features and improvements on the Sim4Life [website](#)!



MEASUREMENTS

DASY8^{3D} V1.8 with TAS and APD

Our latest software updates of DASY8^{3D} V1.8 and cSAR3D V5.8.2 advance automated high-throughput testing for comprehensive evaluation of the latest smart wireless device features, including dynamic time-averaged specific absorption rate and absorbed power density evaluations. With a revamped interface and enhanced automation tools, testing is now faster and easier than ever. Discover the [latest advancements](#) today!



MEASUREMENTS

DASY8/6 Module WPT and MAGPy V2.8

Wireless charging technology is becoming increasingly smarter – and so are our test systems. The DASY6/8 Module WPT includes significant enhancements introduced for testing the latest fast chargers that employ frequency or amplitude shift keying (FSK/ASK) to optimize power transfer and charging efficiency. Want to see it in action? Check out this user [video](#).

AWARD

Prizes

Early in November, the Swiss École Polytechnique Fédérale de Lausanne (EPFL) awarded Mingxiang Gao the EPFL PhD Thesis Distinction in Electrical Engineering 2024 for his doctoral thesis titled “Electromagnetic Radiation of Implantable Antennas”. Congratulations Mingxiang!



RESEARCH

PUBLICATIONS

Noninvasive Modulation of the Hippocampal-Entorhinal Complex during Spatial Navigation in Humans

E. Beanato, *et al.* 2024, *Science Advances*, doi: [10.1126/sciadv.ado4103](https://doi.org/10.1126/sciadv.ado4103) (online 30 October 2024)

Safety of Non-Invasive Brain Stimulation in Patients with Implants: A Computational Risk Assessment

F. Karimi, *et al.* 2024, *Journal of Neural Engineering*, doi: [10.1088/1741-2552/ad8efa](https://doi.org/10.1088/1741-2552/ad8efa) (accepted 05 November 2024)

The Implantable System that Restores Hemodynamic Stability After Spinal Cord Injury

A. A. Phillips, *et al.* 2024, under review

STANDARDS

Regulatory Updates at TCB Council Workshop

The latest Telecommunications Certification Body (TCB) Council Workshop, held October 15–17 in Baltimore, Maryland, USA, provided useful regulatory updates and valuable technical information for the wireless industry, including an update of the latest research results in support of compliance. The good news: SPEAG’s latest solutions meet all current and upcoming requirements. Read more [here](#).

RESEARCH FELLOWSHIPS



We are pleased to share that the call for proposals for the Katja Poković Research Fellowship that was specifically created to honour Katja’s legacy, will open in mid-February 2025. On the third anniversary of Katja’s passing, we take a moment to acknowledge the good memories and lasting impact she left behind, and we look forward to seeing how this funding opportunity will continue Katja’s work and inspire other women researchers to follow in her footsteps. More information about the fellowship and the Katja Poković Research Fund can be found [here](#).

Recommendations for the Safe Application of Temporal Interference Stimulation in the Human Brain Part I: Principles of Electrical Neuro-modulation and Adverse Effects

A. M. Cassarà, *et al.* 2024, under review

Recommendations for the Safe Application of Temporal Interference Stimulation in the Human Brain Part II: Biophysics, Dosimetry, and Safety Recommendations

A. M. Cassarà, *et al.* 2024, under review

Efficient Fourier Base Fitting on Masked or Incomplete Structured Data

F. Karimi, *et al.* 2024, under review

Precision Non-Invasive Brain Stimulation: An In Silico Pipeline for Personalized Control of Brain Dynamics F. Karimi, *et al.* 2024, under review



A Night to Remember: Celebrating Our Z43 Jubilees in Style

On November 22, 2024, the Z43 team gathered to celebrate a series of truly remarkable anniversaries – 30 years SPEAG, 25 years IT'IS Foundation, 18 years ZMT, 5 years TI Solutions, and the 4-month milestone of our newest addition, Z43 NetZero Foundation – at a jubilee party that was as elegant as it was spirited. Here's to many more achievements and many more nights like this one!

