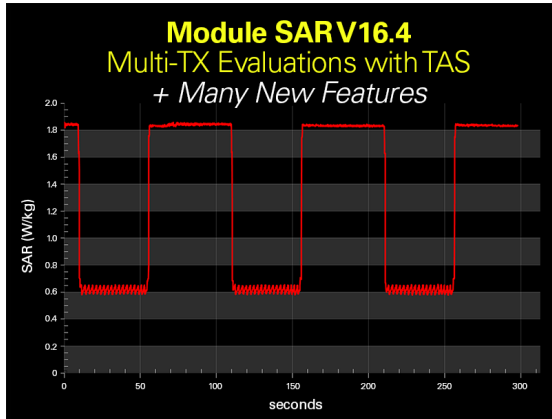




## MEASUREMENTS

### Module SAR V16.4 and cSAR3D V5.8 Releases

Recently released software updates for our two SAR assessment systems, [DASY8/6 Module SAR V16.4](#) and [cSAR3D V5.8](#), allow simplified and automated measurement via the latest power time-averaging algorithms.



SIM4LIFE

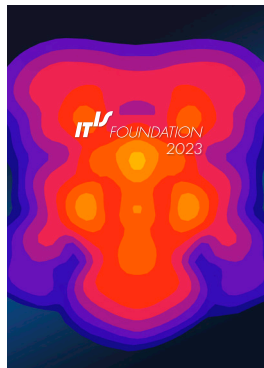
### Sim4Life.lite Student Competition 2024

Calling all Bachelor's, Master's, and PhD students working in numerical modeling: We are thrilled to announce that the call for submissions to the Sim4Life.lite Student Competition 2024 is now open! This is your chance to showcase your skills and innovative ideas with the possibility to win some amazing prizes! [Get started](#) now!

## ANNUAL REPORT

### IT'IS Annual Report

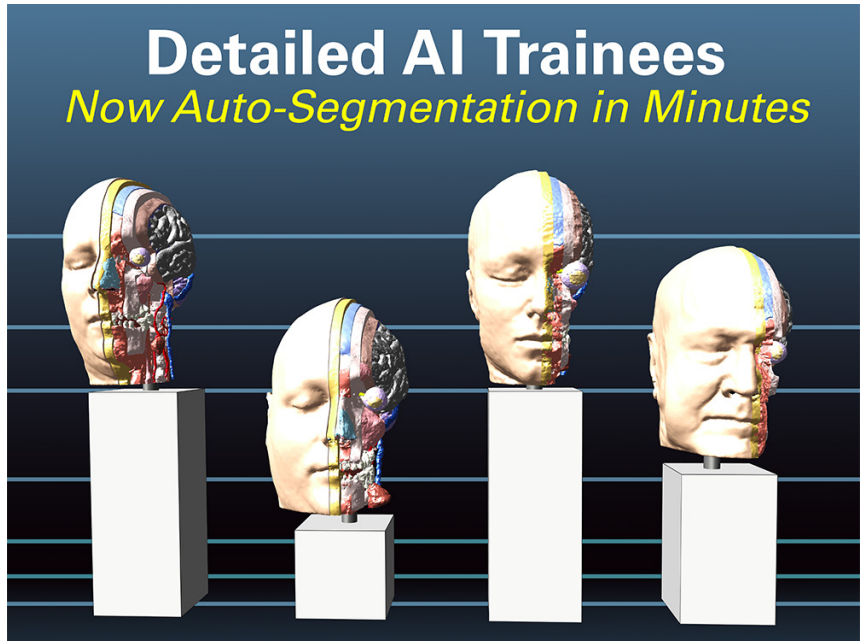
The IT'IS Annual Report 2023 is available [online](#), incl. a summary of the research efforts focused on devising the first solution for assessment of APD.



## VIRTUAL POPULATION

### IXI Head Models

We have released four new reference head models – two female and two male subjects from different age groups – with which we have achieved a breakthrough in automated head segmentation. Read more [here](#).



## PUBLICATIONS

### Universal Validation Approach for Complex Systems

Comprehensive and time efficient validation of test systems covering a multi-dimensional parameter space have never been possible before – which is why SAR array systems have not been accepted by regulators – until now. We solved this problem by proposing a [novel approach](#) to verification and validation based on advanced surrogate modeling methods. Read more about the scientific impact of this paper on our [website](#).

## EVENTS

### 50<sup>th</sup> Foundation Board Meeting

The IT'IS Foundation Board celebrated its 50<sup>th</sup> bi-annual meeting with current and former members. Among those in attendance, only Q. Balzano and Niels Kuster have participated in every meeting. The commemorative evening was filled with memorable stories, highlighting that back in 1999, no one could have anticipated the Foundation's current success.



## RESEARCH

### PUBLICATIONS

**A Gaussian Process Based Approach for Validation of Multi-Variable Measurement Systems: Application to SAR Measurement Systems** C. Bujard *et al.* 2024, IEEE Access, doi: [10.1109/access.2024.3393778](#) (online 25 April 2024)

**Non-Invasive Stimulation of the Human Striatum Disrupts Reinforcement Learning of Motor Skills** P. Vassiliadis *et al.* 2024, Nature Human Behaviour, doi: [10.1038/s41562-024-01901-z](#) (online 29 May 2024)

**A Novel CNN-Based Image Segmentation Pipeline for Individualized Feline Spinal Cord Stimulation Modeling** A. Fasse *et al.* 2024, Journal of Neural Engineering, doi: [10.1088/1741-2552/ad4e6b](#) (online 07 June 2024)

**BlueRecording: A Pipeline for the Efficient Calculation of Extracellular Recordings in Large-Scale Neural Circuit Models** J. J. Tharayil *et al.* 2024, submitted

**The Implantable System that Restores Hemodynamic Stability After Spinal Cord Injury** A. A. Phillips *et al.* 2024, submitted