



Aalto University
School of Science

Advanced Magnetic Imaging Centre Aalto NeuroImaging Infrastructure

Department of Neuroscience and Biomedical Engineering



ami.aalto.fi

Open-access research facilities for magnetic resonance imaging

AMI Centre inauguration

Advanced Magnetic Imaging (AMI) Centre was inaugurated at Helsinki University of Technology (HUT) after almost 5 years of preparatory work. AMI Centre hosted the very first human 3 T MR scanner (GE Signa) in Nordic countries. Since the beginning, our high-quality research environment has provided instrumentation for human functional magnetic resonance imaging (fMRI), structural imaging (MRI) as well as diffusion tensor imaging (DTI) and fibre tractography.



2002

Focus in multimodality

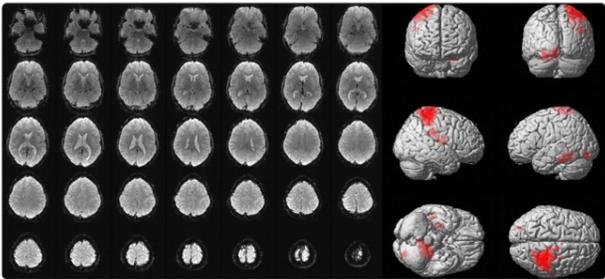
Multimodality is one of our focus areas and, for example, simultaneous EEG-fMRI measurements, eye tracking, and other physiological measurements during fMRI are routinely performed.



2005
2006
2007

Methodologies for fMRI

AMI Centre aims at developing fMRI-related services and applications to meet the needs of multiple research teams and organizations. In addition to a versatile variety of MRI-compatible stimulus and response systems we offer technical expertise, advanced methodologies for fMRI, and timely updates for the scanner hardware and RF coils.



2009

From the beginning of 2010, the Helsinki University of Technology (HUT), the Helsinki School of Economics, and the University of Art and Design Helsinki merged to form Aalto University. ANI facilities belong to School of Science, whose predecessors were part of HUT.



New 3 T scanner

New 3 T MR scanner (Siemens MAGNETOM Skyra) started to operate in renovated premises at the end of the year.



2010

2011

Aalto NeuroImaging

Aalto NeuroImaging (ANI) combined AMI Centre, MEG Core and the just established Aalto TMS laboratory (2013). In December 2017, by the decision of the Dean of Aalto University School of Science, Aalto Behavioral Laboratory (ABL) joined in Aalto NeuroImaging Infrastructure.



2013



Via collaborators in the Finnish bioimaging platform, ANI was included first in Finland's strategy and roadmap for research infrastructures 2014-2020 by the Academy of Finland and Ministry of Education and Culture, and again 2021-2024.

Towards ultra-high field human MRI

"Ultra-High Field MRI: Transition to Human 7 T in Finland"-symposium was organized with AMI Centre highly involved. The symposium attracted approximately 120 participants and 9 top-level speakers (for more, see: <http://urn.fi/URN:ISBN:978-952-60-6762-9>).



2014

2015

MRI safety training

The cumulative number of people taking and passing AMI Centre's MRI safety course since 2002 has reached more than 500 individuals.



2016

2021

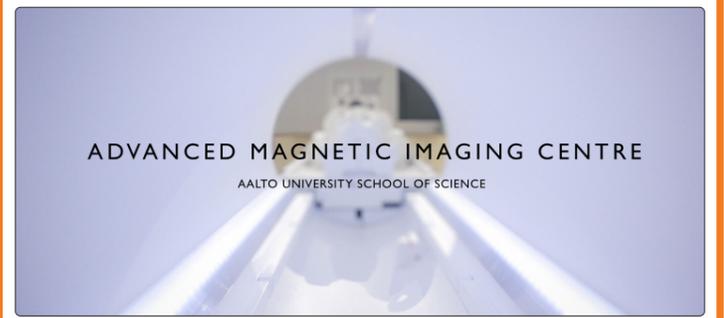
2022

Funding applied for major 3 T scanner update, stay tuned!

2023

20 years anniversary

AMI Centre turned 20 years. The fMRI/MRI data gathered at AMI Centre is used on average in more than 20 publications annually, and the data collected in our facilities benefit approximately 150 national and international users each year.



ADVANCED MAGNETIC IMAGING CENTRE
AALTO UNIVERSITY SCHOOL OF SCIENCE