



Language understanding is one of the main goals of artificial intelligence, and although much progress has been made in deep learning, it remains one of the main limitations of artificial intelligence, as computers will not be intelligent until they understand language.

of Artificial

Intelligence

the next frontier

In order to face the new challenges and opportunities of the digital transformation and artificial intelligence, it is essential to foster research in language technologies.

To this end, we created HiTZ, with a dual purpose: to be an international reference in language technology research, and the reference in the computational treatment of Basque. The activity of the center comprises five lines of action: training, research, innovation and transfer, fostering our culture and societal impact. This wide scope requires a broad interdisciplinary team, which brings together computer scientists, linguists, engineers, translators and sociologists, among others.

The work of the researchers from Aholab and Ixa, the two research groups making the HiTZ center, already bore fruit in its first year. This solid foundation allows us to continue with renewed energies, and, in cooperation with technology centers, companies and institutions, turn the Basque Country into an international hub for language technologies and artificial intelligence.

Eneko Agirre (Director of HiTZ) and German Rigau (Deputy Director of HiTZ)

technology /tɛkˈnɒlədʒi/

HiTZ IN NUMBERS

37
Projects

25

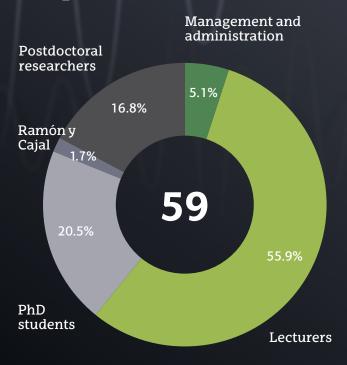
Transfer Contracts

78Publications

Thesis



People



Budget



ORGANIZATION

The research groups **Ixa** and **Aholab**, both from the University of the Basque Country (UPV/EHU), have been — since their creation in 1988 and 1998 respectively — the main tractors in the area of Language Technologies of the Basque Country.



ahôLAB



Eneko Agirre

Director



Subdirector



Board member



Board member



Oier Lopez de Lacalle

Board member



Oronoz Board member



Board member



Board member

HiTZ is also a founding member of CLARIN-K Center (European Research Infrastructure for Language Resources and Technology), member of CLAIRE (key player on AI strategy in Europe) and full member of BDVA (Europe as the world leader in the creation of Big Data Value).







RESEARCH AREAS

Main Researcher:



Information Extraction and Information Retrieval



Machine **Translation**



Main Researcher:



Text Analysis



Speech Synthesis and Speech Recognition



Main Researcher:







Human-Computer Interaction



Speech and Language Resources



Main Researcher:

Main Researcher:





Medical and Legal domains



Digital humanities and education



INFRASTRUCTURE

multiprocessor **GNU/Linux** servers

SPARC Solaris servers

HPC Cluster with 128 cores

servers with 27 **GPUs**

Over

of raw Network storage capacity

acoustically isolated room with audio equipment for professional recordings

RESEARCH & TRANSFER



INTERNATIONAL PROJECTS

12

NATIONAL PROJECTS 18
REGIONAL



25

KNOWLEDGE TRANSFERENCE CONTRACTS 3

PROJECTS

OTHER PROJECTS 7

DOCTORAL THESIS DEFENDED (3 International)

JOURNAL PAPERS (11 Q1)

34

CONFERENCE PAPERS (7 A, A+)

7

BOOK CHAPTERS ВООК

language /ˈlæŋgwɪdʒ/

- the method of human communication either spoken or written, consisting of the use of words in a structured and conventional way.
- a non-verbal method of expression or communication
- 2. a system of communication used by a particular country/tskinnledzi/

COMPUTING **noun**a system of symbols and rules for

TRANSFERRE

TRANSFERRED TECHNOLOGIES

8

PHD GRANTS

TRAINING

training
/'treinin/

STUDENTS IN MASTERS

STUDENTS IN DOCTORAL PROGRAM

EMLTC MASTER THESIS FINALIZED

HAP/LAP
MASTER THESIS

STUDENTS IN 2 DEEP
LEARNING COMPLEMENTARY
COURSES

3 IKASIKER

FINALIZED

INTERNAL AND



ACTIVITIES



language /ˈlæŋgwɪdʒ/ noun

25

SEMINARS

INTERNATIONAL VISITORS

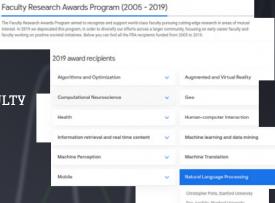


technology

/tɛkˈnɒlədʒi/

WORKSHOP ORGANIZATION

GOOGLE FACULTY
RESEARCH
AWARD



BBVA GRANT FOR SCIENTIFIC RESEARCH FACEBOOK GRANT

MITXELENA AWARD FOR PHD THESIS



DEGREE/MASTER THESIS PRIZES UPV/EHU TRIBUTE

center
/'sɛntə/
noun