

Live-Intelligence

9 Models of sensing events processing for alive Artificial Intelligence on Internet

**Coordination Action to explore and discover
knowledge and research habitats
for alive Artificial Intelligence on Internet environment**

Artificial Sensing, meaning, thinking, living and evolving on Internet



FET Flagship Initiatives
"Science & Policy Forum on FET
Flagships' Workshop"
9-10 June 2010 Brussels

Idea

Sustainable research environment of interactive, synergistic and collaborative multidisciplinary habitats to propose, experiment, validate and demonstrate computational “natural live” models for simplification, simulation, replication and understanding functionalities and endowing capacities and embodying faculties to provide features and characteristics of natural being, grow, act, adapt and evolve artificial intelligent entities and communities on Internet.

Build a framework

of models and patterns for processing sequences of sensing events detection,

to provide

capacities of acquiring sensing information and

faculties for audition, olfaction, vision and in general sensation, cognition and reasoning and

functionalities to accomplish missions being connected, communicated, included, trained, etc and

live features and characteristics of being, grow, learn, act, adapt and evolve

to Artificial Intelligent Entities and Communities on Internet

AI/Aml teach to all and learn from all

Challenge: explore the paradigm of “*Live as sequence of sensing events*” towards mathematics and computational 9 models for simulating, understanding and providing natural live processes, based on sequential sensations events detection (SSEDP) processing of AI/Aml on Internet

Born/Connecting > Grow/Communicating > Learn/Belonging > Live/Evolving

9 models for 9 steps:

- 1 ACQUISITION** signal-sensors and sensing-sensors networks. Supply raw-data
- 2 PERCEPTION** Sensation Events Detection (SED). Separation, Representation and Classification (extraction of all information associated to SED)
- 3 RECOGNITION** Analysis of multi-sets of SED for Activity Recognition (AR) and Pattern discrimination
- 4 REFLECTION** Multi-sensory analysis for Context Definition (CD)
- 5 DECISION** Risk management, evaluation, consideration of conviction and decision-making
- 6 ACTUATION** Four types of robotic services (RS): Informing, Alerting, Assisting and Monitoring.
- 7 PERSONALISATION** Settings and user-training of behavior action, actuation and/or interaction, via parametrisation such a “pseudo-pet”.
- 8 ADAPTATION** to domains/habitats and applications/missions via retraining (upgrade SW from internet repositories)
- 9 EVOLUTION** Continuous process of natural differentiation between equal intelligent entities and progressive enhancement of their capacities and faculties

Scope: Simple and natural, modular and continuous, evolutionary framework of interconnected models to provide operative functionalities to alive features, capacities and faculties to intelligent beings and systems interacting on Internet.

Perception > Reflection > Decision > Action

Personalisation > Adaptation > Evolution

**9 S&T models of Sequential Perception
Events Detection for providing natural
cognition, reasoning and evolution of artificial
intelligent systems “living” on Internet**

Key-dates:

- 1.- 9-10/Jun/2010 FLAGSHIP WORKSHOP BXL
- 2.- 20-21/Sep/2010 ICT2010 Working Meeting BXL

Contact:

Mr. Ferran Cabrer i Vilagut

<http://ACAIA.org> community **ACAIA @ ACAIA.org**

Acoustic, Sensing Computing for AI/Aml Applications

<http://Live-Internet.org> network