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Multimedia understanding through semantics, computation and learning

Fact Sheet

Project Information

MUSCLE

Grant agreement ID: 507752

[Project website](#) 

Project closed

Start date

1 March 2004

End date

29 February 2008

Funded under

Information Society Technologies: thematic priority under the specific programme "Integrating and strengthening the European research area" (2002-2006).

Total cost

No data

EU contribution

€ 6 900 000,00

Coordinated by

GEIE ERCIM

 France

Objective

Due to the convergence of several strands of scientific and technological progress we are witnessing the emergence of unprecedented opportunities for the creation of a knowledge driven society. Indeed, databases are accruing large amounts of complex multimedia documents, networks allow fast and almost ubiquitous access to an abundance of resources and processors have the computational power to perform sophisticated and demanding algorithms.

However, progress is hampered by the sheer amount and diversity of the available data. As a consequence, access can only be efficient if based directly on content and semantics, the extraction and indexing of which is only feasible if achieved automatically. MUSCLE aims at creating and supporting a pan-European Network of Excellence to foster close collaboration between research groups in multimedia data mining on the one hand and machine learning on the other in order to make breakthrough progress towards the following objectives.(i) Harnessing the full potential of machine learning and cross-modal interaction for the (semi-)automatic generation of metadata with high semantic content for multimedia documents.(ii) Applying machine learning for the creation of expressive, context-aware, self-learning, and human centred interfaces that will be able to effectively assist users in the exploration of complex and rich multimedia content.(iii) Improving interoperability and exchangeability of heterogeneous and distributed (meta)data try enabling data descriptions of high semantic content (e.g. ontologies, MPEG7 and XML schemata) an conference schemes that can reason about these at the appropriate levels.(iv) Through dissemination, training and industrial liaison, contribute to the distribution and uptake the technology by relevant end-users such as industry, education, and the service sector.

Fields of science (EuroSciVoc)

[natural sciences](#) > [computer and information sciences](#) > [databases](#)

[natural sciences](#) > [computer and information sciences](#) > [data science](#) > [data mining](#)

[natural sciences](#) > [computer and information sciences](#) > [artificial intelligence](#) > [machine learning](#)



Programme(s)

[FP6-IST - Information Society Technologies: thematic priority under the specific programme "Integrating and strengthening the European research area" \(2002-2006\).](#)

Topic(s)

[IST-2002-2.3.1.7 - Semantic-based knowledge systems](#)

Call for proposal

Data not available

Funding Scheme

[NoE - Network of Excellence](#)

Coordinator



GEIE ERCIM

EU contribution

No data

Total cost

No data

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Links

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[HORIZON collaboration network](#) 

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