MAVEN’s project logo

Illustration of MAVEN’s key concept: “search and verify”, used in project presentations
Illustration of a set of MAVEN’s functionalities at a glance.
Picture of the kick off meeting, included in the official press release of the project
Rehearsal Meeting (Brussels 8/9/2015)
Updated MAVEN website snapshots

What is MAVEN?

MAVEN is a collaborative project among seven European partners, which has been selected by the European Commission as one of the projects funded under the "Research for the benefit of SMEs" programme, in the 7th Framework Programme.

Why MAVEN?

The efficient management of large amounts of multimedia data is a

MAVEN at the ICME 2015

The ICME 2015 International Conference on Multimedia and Expos has been the largest multimedia conference sponsored by the EU since its inception in 2000. MAVEN is sponsored by the ICME for the exchange of ideas and applications in the field of multimedia and related areas. MAVEN also features an exhibition of multimedia products and prototypes.

http://www.icme.org/maven
MAVEN demo at ICME 2015 conference
ICME’s 2015 MAVEN project paper frontpage

THE MAVEN PROJECT: MANAGEMENT AND AUTHENTICITY VERIFICATION OF MULTIMEDIA CONTENTS


TAURUS, ARTHAUS, GRADIENT, CNIT, UNICA, XSTREAM, ATRASOL, CARLSOFT, GEMINI,
{cbiaz, e.arroyo, j.knoop, p.dagle, j.sanchez, aperezfreire, d.derosa, m.fontani, a.costanzo, f.pozzi, d.arras, l.pozzi, r.hummel, m.ferrer}@gradiant.org,
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ABSTRACT

MAVEN (Management and Authentication Verification of multimedia contents) is a European FP7 Project focused on the development of a suite of tools for multimedia data management and security. MAVEN objectives are centered on two key concepts: search and retrieval, recognized in a scientific manner the system first solution for digital contents containing objects of interest and then applying such techniques to the management of multimedia data with other aspects of authenticity. These capabilities have been developed as a single software framework, and the project also involves the implementation of a prototype demonstration application, which brings to the real scene the possibility of searching for specific content in media while verifying their authenticity.

Index Terms— media analysis, multimedia search, multimedia forensics, EU project

1. INTRODUCTION

The 21st century society is universally recognized as the information and communication society. Information is continuously generated, acquired, and stored. A huge part of this information is stored within multimedia documents present in digital formats. As society becomes increasingly digitalized, it is essential to ensure the authenticity of multimedia data. Multimedia data is often considered to be vulnerable to unlawful changes and modifications; thus, the efficient management of large amounts of multimedia data is an increasingly challenging task.

In addition, it is common knowledge that digital assets are extremely valuable, so the security of digital data becomes an essential area of research. Thus, it is necessary to develop tools and applications that can ensure the integrity of multimedia data and enable users to verify the authenticity of the content.

2. THE CONSORTIUM

The consortium behind the MAVEN project is formed by a group of five SMEs involved in business areas directly related to the search and verification of multimedia contents: AMPED (Italy), ARTHAUS (Madrid), TAURUS (Anadolu and Spain) and XSTREAM (Spain). The MAVEN consortium also comprises three RTD performers with complementary expertise and a strong background in the technological areas related to MAVEN: CNIT (Universities of Rome and Firenze, Italy), the Future Recognition and Applications group from the University of Cagliari (Italy) and GRADIENT (R&D Centre, Spain).

3. THE MAVEN PROJECT

Despite the technological advances in the security and multimedia sectors, MAVEN arises from the need to provide solutions that can ensure the authenticity of multimedia data, which is increasingly important for various applications. MAVEN aims to contribute to the field by developing robust and reliable tools for multimedia analysis and verification. The project will focus on the following objectives:

1. Comprehensive: MAVEN integrates seven

http://www.mavensproject.eu/

http://arcsedosoftware.com

1 Primarily known as phanexis

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WeMuV 2015 workshop (supported by MAVEN)
Presentation of MAVEN at the European Researchers Night 2014
MAVEN presentation at LawTech Europe Congress

MAVEN presentation at S-Five Workshop
MAVEN presentation at Forensics Europe 2015

MAVEN presentation at the Entrepreneurial panel at the University of Chicago
Snapshots of AMPED’s Authenticate product with MAVEN forensics tools integrated
Snapshots from the videos prepared within the MAVEN project
What is Arthaus?

Borjanka Nikolova
Arthaus Manager - Skopje (Macedonia)

What is Taiger?

Carlos Ruiz
R & D Director Taiger - Madrid (Spain)
What is Amped?

Martino Jerian
Ceo Amped Software - Trieste (Italy)

What is Xstream?

Maximino Álvarez
CEO Xstream - Madrid (Spain)
MAVEN is a collaborative project among seven European partners, funded under the “Research for the benefit of SMEs” programme, FP7.