Saint Petersburg State University of
Information Technologies, Mechanics and Optics

Computer Systems Design Chair

POSTERS PRESENTATIONS
MANAGEMENT SYSTEM

Authors:

Smirnov P. A.(master)
Katkov Y. V.(ph.d.student)
Pochinok I. N.(ph.d.student)

Supervisor:

ph.d. Mouromtsev D.I.(docent)

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Introduction

The main goal: posters management system development

The purpose: to provide visitors with an instant access to detailed information during conferences and exhibitions

Solving problems:

• the system helps presenter to avoid answering same questions many times

• the system helps visitor to find presenter in crowded pavilion

• the system allows visitors to get answers on questions without involving presenter

Requirements

The system should provide following features:

For presenters:

• user-friendly interface to submit information thought web-site

For visitors:

• display all the information via mobile devises and web-site both

Minimum of data, which the system should operate:

Poster name, annotation, keywords, authors, organization, presenter, photo, date, section, pdf-version

Abstract

Conception: to create a global repository about all presentations using Semantic Media Wiki technology and QR-code identification to display data on mobile devices

Related works:

- Android Market

- Kia, Detroit Auto Show

Common use case

• Presenter register himself on the website and submit presentation to the system

• Each poster in the system has it's own URL-adress and QR-code generated automatically, when poster has been submitted

• QR-codes should be printed on paper to be sticked on every poster

• Visitor focus his mobile device camera on QR-code and gets detailed data of the poster on display

• All data is available either via mobile devices or via traditional computers with internet connection

Selection of basic technology

Advantages of Semantic Media Wiki:

• SMW – extension of MediaWiki. Allows to add semantic links between objects and data of different types

• Stable and perspective technology

• Highly effective in educational and scientific areas

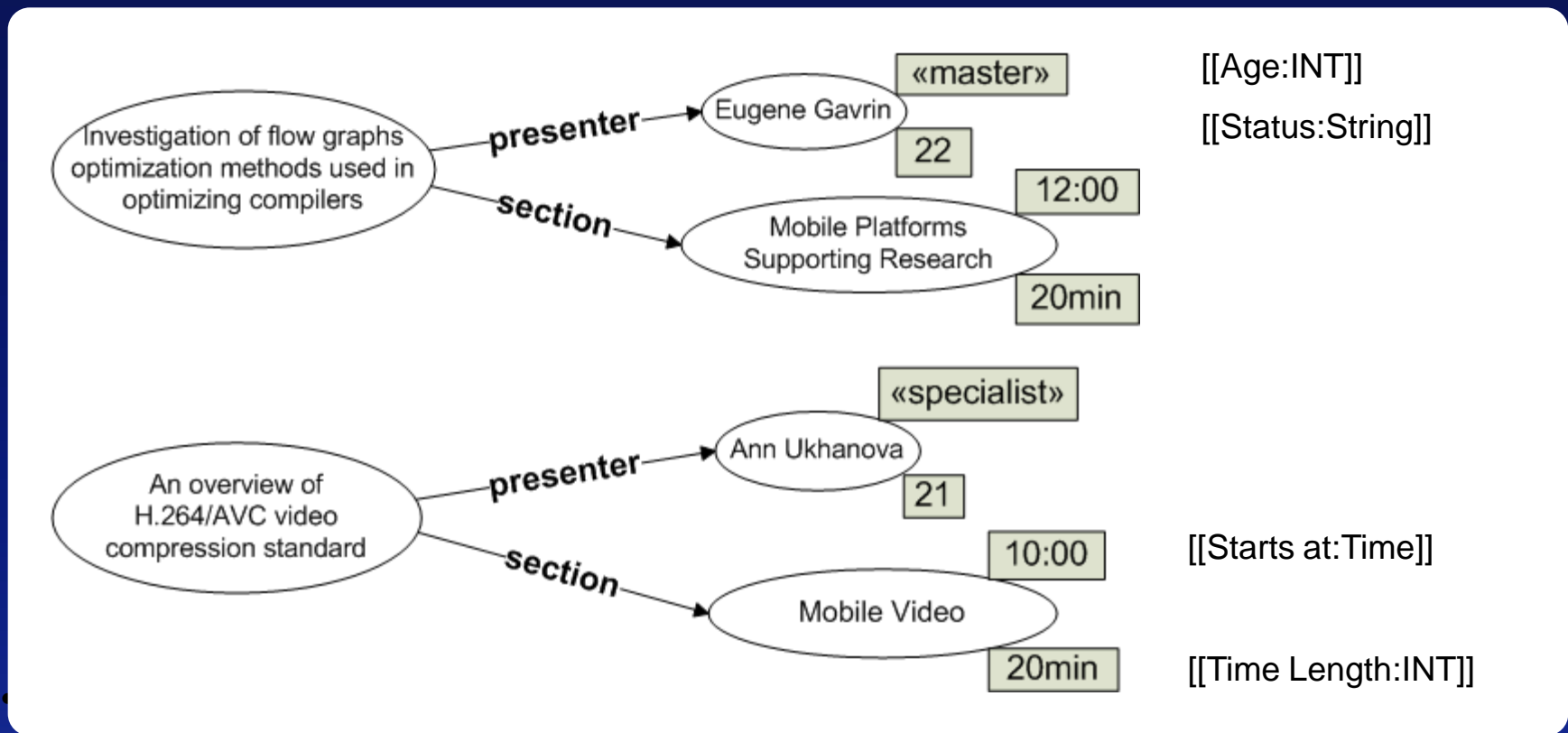# Standard Media Wiki

Equivalent links between objects:
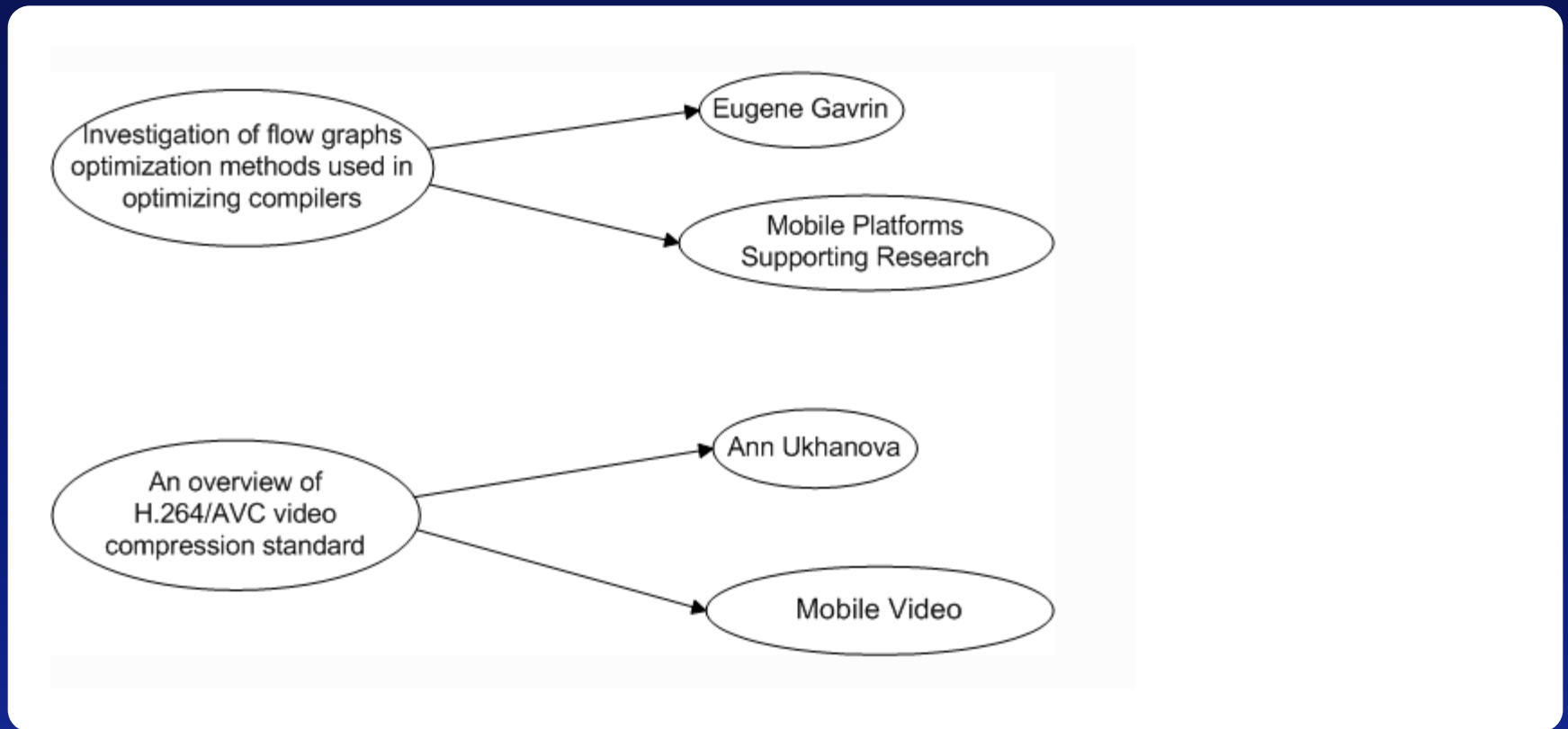
Semantic Media Wiki

Objects with named links:

[[Presenter::Garvin E.]]

[[Section::Mobile Platforms]]

[[Presenter::Ukhanova A.]]

[[Section::Mobile Video]]
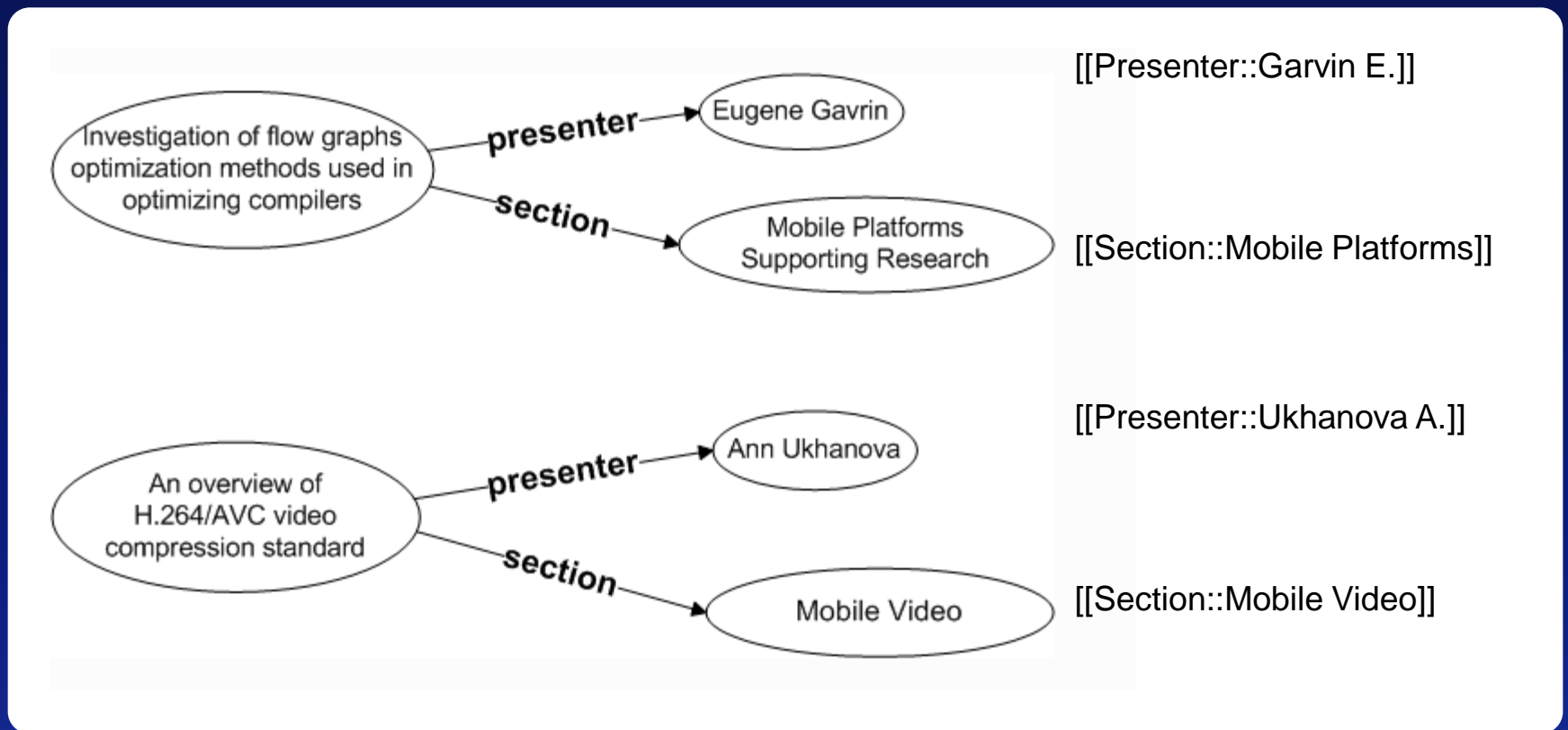
Semantic Media Wiki

Objects with different type properties:

[[Age:INT]]

[[Status:String]]

[[Starts at:Time]]

[[Time Length:INT]]

Semantic Media Wiki

Semantic forms provide user-friendly interface:

Semantic Media Wiki

Ask-queries to database:

Semantic Media Wiki

Ask-queries to database:


```
{{#ask:
[[Category:Person]]
[[name::Eugene Garvin]]
| ?department
| ?supervisor
}}
```
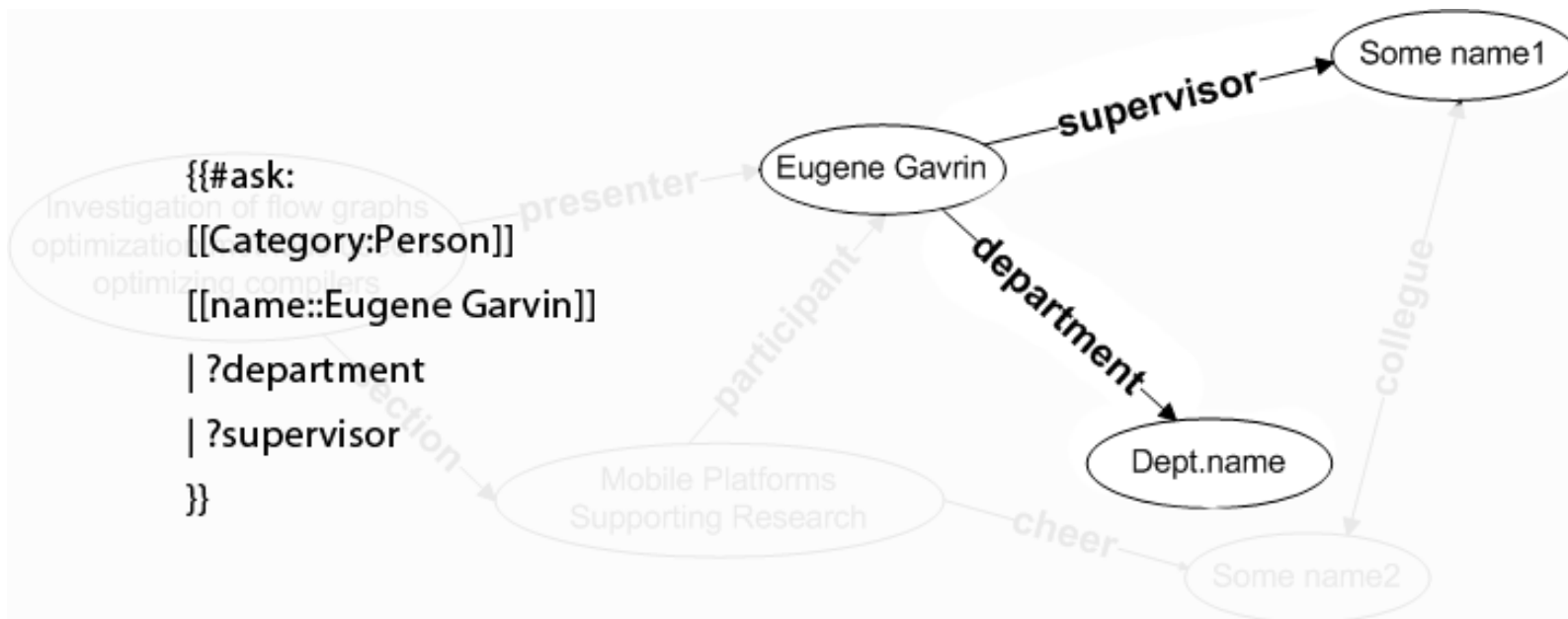
Conclusion

During the project we have solved the following tasks:

- Configuring properties, queries, forms and templates

- Integrating MediaWiki plugin to automatic generation QR-codes

- Applying special mobile template with less graphics to show on mobile devices

Current work

- Testing and getting feedback on FRUCT9

- Finding ways to integrate with SmartConference system

Thanks for attention!