Third Six-Monthly Meeting & Mid-Term Review

WELCOME!

Frankfurt Airport Conference Centre
Friday 19th September 2003

10:00 Overview of the ECVision Network (DV)
- Goal of the Network
- Highlights from the past 18 months
- 2nd Six-Monthly Periodic Management Report (Consolidated)
- Status of cost statements
- Questions and answers

10:45 Research Planning (JC)
- Overview of activities / Status of deliverables / Required actions

11:30 Coffee Break

11:45 Education and Training (BF/WF)
- Overview of activities / Status of deliverables / Required actions
- Status Report on Specific Actions
  - Specific Action 2-1: Summer school (WF)
  - Specific Action 6-1: Cognitive Vision Education Survey (BF)
  - Specific Action 6-2: Restructuring of CVonline (BF)
  - Specific Action 6-3: Encyclopedia of Cognitive Computer Vision (BF)
  - Specific Action 16-1: Student Exchange (DV)
  - Specific Action 21-1: Encyclopedia of Cognitive Computer Vision (Isabelle Bloch)

12:30 Information Dissemination (DV)

Overview of activities / Status of deliverables / Required actions

Status Report on Specific Actions

- Specific Action 1-1: Best paper prize
- Specific Action 8-1: Keyword Indexed Bibliography with Abstracts of Papers
- Specific Action 13-1: ICVS 2003 (Markus Vincze)
- Specific Action 37-1: WAPCV 2003 (Lucas Paletta)

1:45 Lunch

14:30 Industrial Liaison (MT/PC)

Overview of activities / Status of deliverables / Required actions

Status Report on Specific Actions

- Specific Action 7-1: White Paper on Applications of Cognitive Vision Systems (PC)
- Specific Action 7-2: Prize for Best Application Development PC)

15:15 Information Infrastructure (DV)

Overview of activities / Status of deliverables / Required actions

15:30 Open Forum:

- Date of next meeting
- Any other business
- Comments
- Questions / Answers

16:00 Review Team in Closed Session

16:30 Initial Review Feedback

17:00 Close of Review and Meeting

Overview

- Goals of ECVision
- Selected Highlights
- 3rd Six Monthly Report (Consolidated)
- Status of cost statements
- Questions and Answers

GOALS


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European Research Network for Cognitive Computer Vision Systems
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"All important fields of human endeavour start with a personal commitment based on faith rather than on results."
David Marr
AI - A Personal View, 1977.
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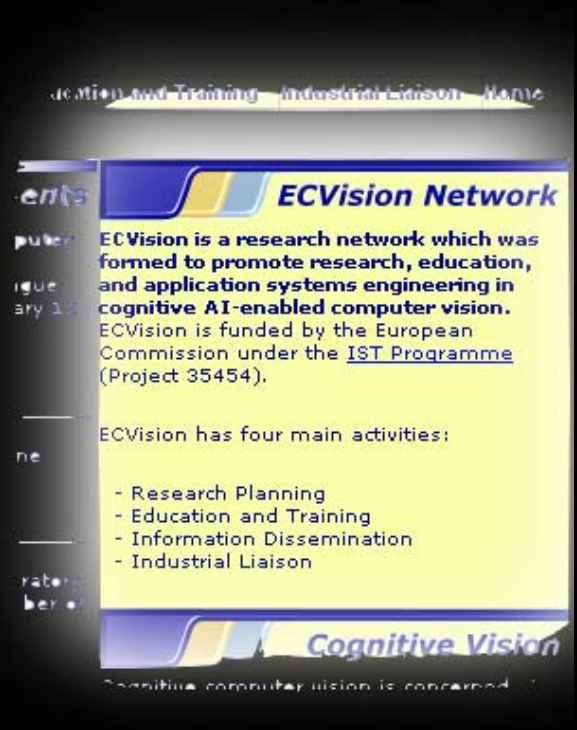
Specific Action 39-1 - Cognitive Computer Vision Colloquium
The Czech Technical University in Prague are organizing a colloquium on January 12 and 13, 2004.
[11 September 2003]
MORE DETAILS
Summer School 2003
Lecture notes are now available on-line
[10 September 2003]
MORE DETAILS
New Member
Rainer Malaka, European Media Laboratory GmbH, has been admitted as a member of ECVision.
[23 August 2003]
MORE DETAILS
Mid-Term Review and Third Six-Monthly Meeting
The Mid-Term Review and the third ECVision six-monthly meeting will be held on the 19th September
[10 August 2003]
MORE DETAILS
SA 16-1 - Student Exchange
A student exchange between the University of Bielefeld and the University of Surrey has
ECVision Network
ECVision is a research network which was formed to promote research, education, and application systems engineering in cognitive AI-enabled computer vision.
ECVision is funded by the European Commission under the IST Programme (Project 35454).
ECVision has four main activities:
- Research Planning
- Education and Training
- Information Dissemination
- Industrial Liaison
Cognitive Vision
Cognitive computer vision is concerned with integration and control of vision systems using explicit but not necessarily symbolic models of context, situation and goal-directed behaviour. Cognitive vision implies functionalities for knowledge representation, learning, reasoning about events & structures, recognition and categorization, and goal specification, all of which are concerned with the semantics of the relationship between the visual agent and its environment.

The definition and establishment of the discipline of cognitive vision

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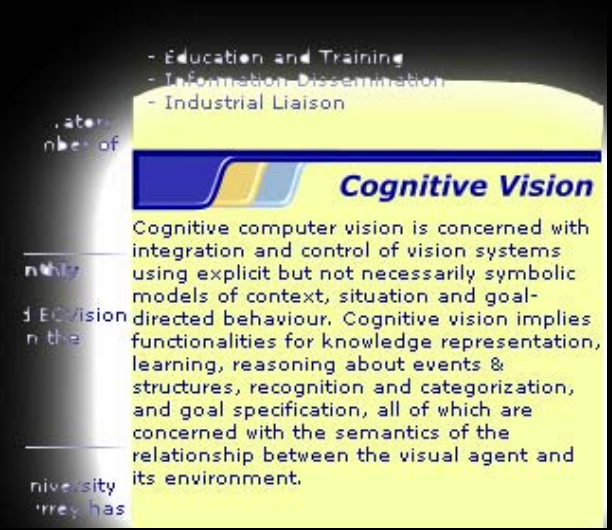
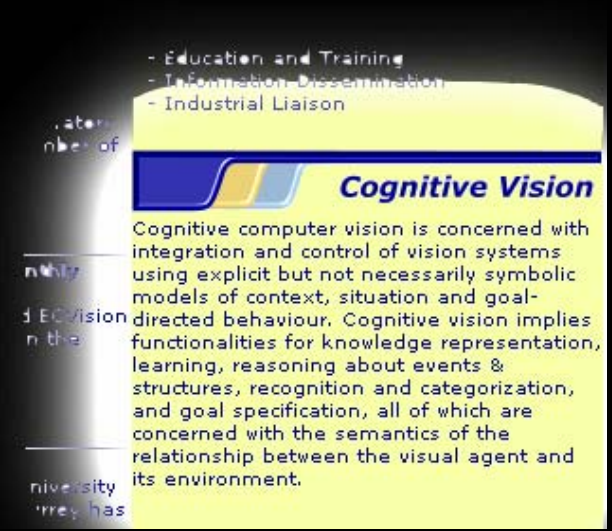


integration
control
explicit not necessarily symbolic
models context
goal-directed behaviour

knowledge representation learning
reasoning events structures
recognition categorization
goal specification
semantics
relationship visual
agent environment



HIGHLIGHTS

Highlights

- May 2002
  - Cognitive Vision Education Survey SA
  - Restructuring of CVOnline SA

May 2002

CVonline: The Evolving, Distributed, Non-Proprietary, On-Line Compendium of Computer Vision

Editor: Robert B. Fisher
School of Informatics
University of Edinburgh
CVonline URL: http://www.dai.ed.ac.uk/CVonline/

Background information

- An overview of CVonline.
- Advice on how to cite topics.

Compendium Contents

The unfolded list of topics.
NEW We have restored a search mechanism for CVonline. See below.

The folded subject hierarchy:

1. Applications
2. Databases and Indexing
3. Famous Vision Systems
4. Generic Vision Methods
5. Geometric Feature Extraction Methods
6. Geometry and Mathematics
7. Image Physics
8. Image Transformations and Filters
9. Motion, Tracking and Time Sequence Analysis
10. Hardware, DSP, Parallel and Other Non-Standard Processing Platforms
11. Object, World and Scene Representations

Highlights

- June 2002
  - Best Paper Prize at ECCV 2002
  - White paper on applications of cognitive vision systems SA

June 2002

European Research Network for Cognitive Computer Vision Systems

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Current page: Industrial Liaison->Application Prize

ECVision Prize for Best Application Development in Cognitive Vision Systems

Introduction

For the first time, ECVision (the European Network of Excellence on Cognitive Vision Systems) and Image Processing Europe magazine are inviting developers to submit applications for the best cognitive vision system. This is to recognise and promote advances in combining vision and cognitive technologies to provide higher levels of functionality and robustness to end users.

A panel of leading experts will review the applications and the award will be announced early in 2003.

What is the prize for?

The winning system will be expected to:

- exhibit the characteristics of cognitive vision (e.g. adaptive reasoning and/or learning)
- be of significant social or economic impact
- have been developed or deployed in within the European Union
- be a complete system and not be an isolated module
- not be based solely on signal processing, feature extraction and matching
- not address application where a large part of the task uncertainty has been removed

Competition Rules

1. the competition is open to all developers of vision systems.
2. cognitive vision systems are those that exhibit learning, recognition and categorisation, reasoning about events and structures, and goal specification. Further details are available on the ECVision website (www.ECVision.info)
3. the system must have been operating since before October 2002
4. commercial products and prototype installations are eligible. However a real end-user must have benefited from the system's operation
5. applications must be received by 31 July 2003
6. incomplete or late applications may be disqualified
7. organisations may enter applications for more than one system but only one award per company division will be allowed. If entering more than one application you must fill a form for each one.
8. Image Processing Europe reserves the right to make the first announcement of the winning entry.
9. application forms will not be returned
10. The winner will be announced at Photonex 03 (8th and 9th October 2003) at Stoneleigh Park, UK

Highlights

- August 2002
  - Annotated bibliography SA
- September 2002
  - Cognitive Vision Workshop, Zurich
  - Dagstuhl 2003 announced

October 2003

Cognitive Computer Vision Ontology

This is an evolving topic categorization for Cognitive Computer Vision, supported by the ECVision: European Research Network for Cognitive Computer Vision Systems. Perhaps 'ontology' is not the right word to describe it, as it isn't a hierarchical subtype tree. But it's not a glossary nor syllabus either. Perhaps it's a topic catalog? Please suggest a good descriptive noun.

People directly involved in its development are: Bob Fisher, Wolfgang Förstner, Annett Faber and Hanns-Florian Schuster.

---

1. Model Learning (Survey Result)
    1. Specific approaches to learning these different types of content (See also Knowledge Representation->Content for "what" things that are learned and Recognition, Categorization and Estimation->Specific Approaches for "how" things might be recognized.)
        1. Activity/Behaviors/Processes/Dynamics
        2. Classification/Category
        3. Context/Scenes/Situations
        4. Function
        5. Objects/Parts
        6. Parameters
        7. Task Control
    2. Issues
        1. Learning Control
        2. Validation
    3. Types of Learning
        1. Case-based
        2. Reinforcement
        3. Supervised
        4. Unsupervised
2. Knowledge Representation (Survey Result)
    1. Content (See also Model Learning->Specific Approaches for learning different types of content and Recognition, Categorization and Estimation->Specific Approaches for "how" things might be recognized.)
        1. Activity/Behavior/Processes/Dynamics
        2. Classification/Category
        3. Context/Scene/Situations
        4. Function
        5. Objects/Parts
        6. Ontologies
        7. Parameters
        8. Task Control
    2. Issues

December 2003

ECVISION **European Research Network for Cognitive Computer Vision Systems**

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Current page: **Education and Training->SA 21-1 Imprecise Spatial Information**

Specific Action 2-1: Dealing with Imprecise Spatial Information in Cognitive Vision

This specific action, a contribution to the CCV Ontology, was undertaken by Isabelle Bloch, Ecole Nationale Superieure des Telecommunications, Paris, France.

This specific action aims at extending the CCV Ontology with aspects related to imprecise knowledge representations in cognitive vision, to tools and methods for dealing with imprecise spatial information, and to information fusion issues and methods.

This material has not yet been integrated into the CCV Ontology but an advance copy is now available as a complete PDF document.

The full 125 page document can be downloaded by clicking here: (125 pages; 3.8Mb)

Site generated on Sunday, 14 September 2003
Best viewed with Internet Explorer 4+

February 2003

ECVision: Cognitive Vision Model Syllabus

Introduction

This is a syllabus resource for Cognitive Computer Vision, such as might be taught in a comprehensive course on Cognitive Computer Vision. Recognising that what might actually be taught is a subset of this material, we have tried to structure this as a resource, meaning that the given topics are recommended, but the choice of topics for any particular course is up to the lecturer. This is a different resource from the Cognitive Computer Vision Ontology which tries to lay out a view of the structure of Cognitive Computer Vision.

There are many technologies that could have been included, but we are proposing those that we thought had the greatest value for Cognitive Vision systems, and are likely to be the foundation for the summer school course and textbook. This is not a hierarchy, nor are the topics mutually exclusive.

We have tried to identify the central topics here and aimed at a typical full-year course with 54 lecture hours. We think that at a minimum, coverage of each of the five Cognitive Computer Vision subject areas should have an overview, one or more techniques and an example application.

We have tried to be mildly prescriptive about the order of topics, starting with the most important (in our estimation), but are not specifying the method of presentation, nor the depth, all of which will depend on the presenter's preferences and the amount of available time.

Some good general references are:

1. Forsyth and Ponce. Computer Vision: a modern approach. Prentice-hall, 2002.
2. Duda, Hart and Stork. Pattern Classification (2nd Edition). Wiley Interscience, 2000.

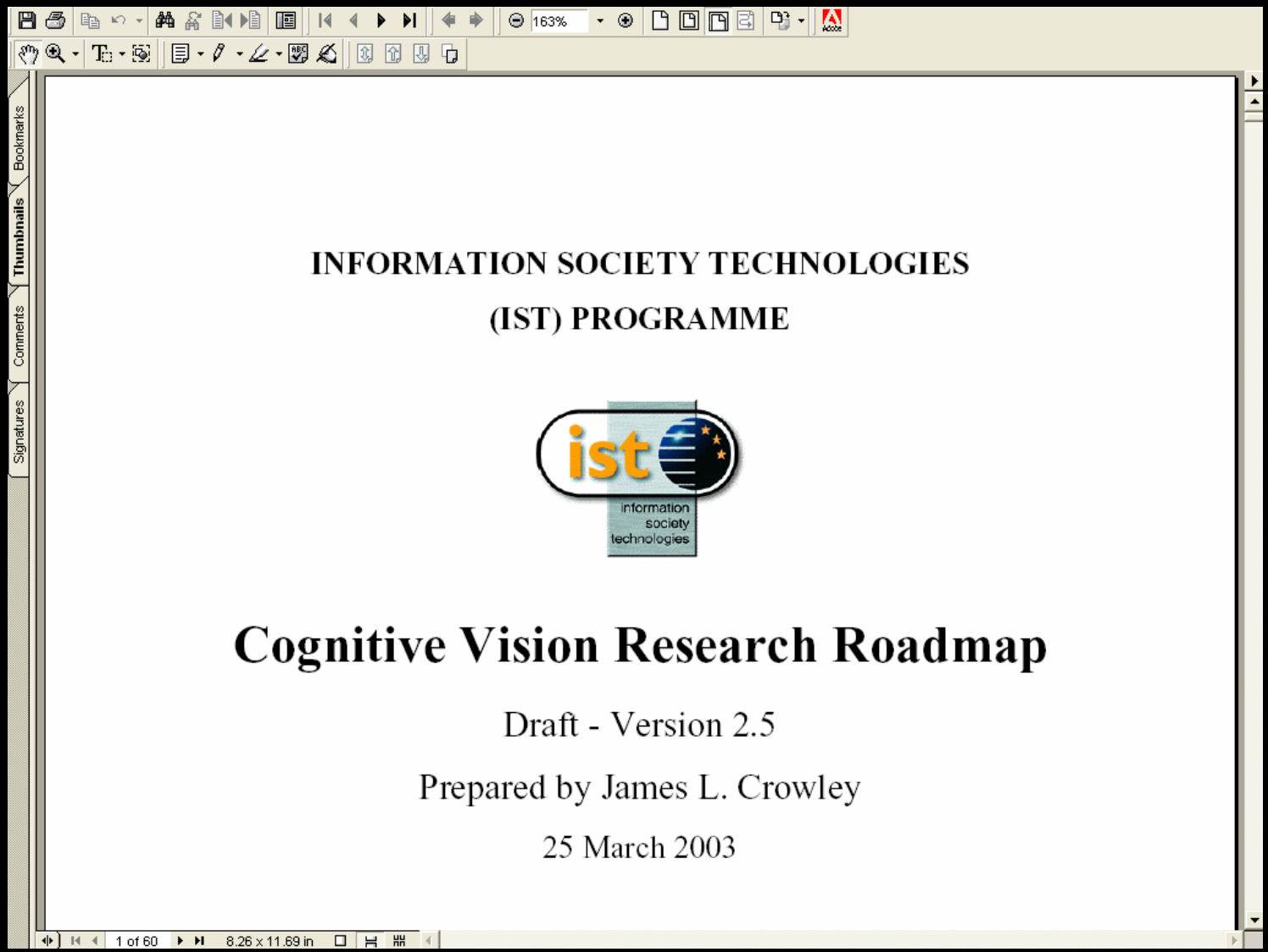
With ECVision funding, we are still working at: (1) identifying a key citation and (2) collecting online resources for each topic.

Basic prerequisite background knowledge:

- pixels and image structure
- image capture process
- basic color and texture
- basic imaging and optical projection
- basic feature detection: points, edges, lines, regions
- basic image processing: histograms, thresholding, mathematical morphology
- basic geometric shapes, their properties and their fitting/parameter estimation from image data
- basic probability and statistics, including estimation and hypothesis testing

Intermediate prerequisite background knowledge:

February 2003



INFORMATION SOCIETY TECHNOLOGIES

(IST) PROGRAMME

Cognitive Vision Research Roadmap

Draft - Version 2.5

Prepared by James L. Crowley

25 March 2003

Highlights

- April 2003
  - 3rd International Conference on Computer Vision ICVS ’03
  - Best paper prize
  - Workshop on Attention and Performance in Computer Vision WAPCV ’03

April 2003

ECVISION **European Research Network for Cognitive Computer Vision Systems**

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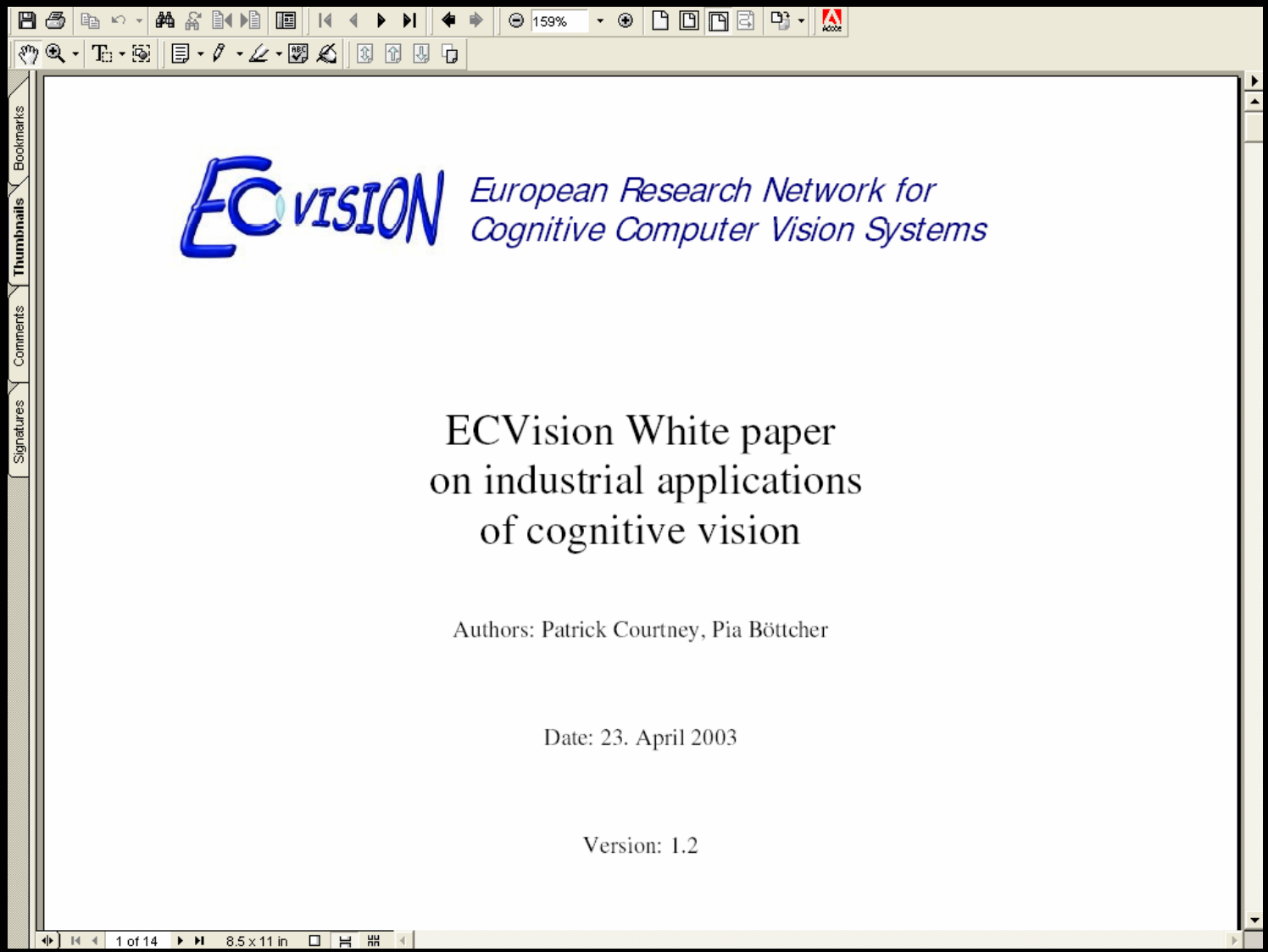
Current page: Research Planning->EU Computer Vision Groups

Computer Vision in Europe

Danica Kragic & Henrik I Christensen (eds.)
Computational Vision and Active Perception
Numerical Analysis and Computer Science
Royal Institute of Technology
SE-100 44 Stockholm, Sweden
danik@nada.kth.se, hic@nada.kth.se
Apr 28, 2003

Contents

May 2003



European Research Network for
Cognitive Computer Vision Systems

ECVision White paper on industrial applications of cognitive vision

Authors: Patrick Courtney, Pia Böttcher

Date: 23. April 2003

Version: 1.2

May 2003

ECVISION **European Research Network for Cognitive Computer Vision Systems**

Name	Application	Product type	Industrial sector	Cognitive vision aspect	Further Information
inX Systems	machine vision and learning software to improve the efficiency of sawmills	inspection system	sawmill industry	self-training	more ...
Parsytec AG	paper web inspection system	inspection system	paper machines	self-training	more ...
CyberOptics	inspection system for printed circuit boards	inspection system	printed circuit boards	self-training	more ...
LTU Technologies	automatic analysing the content of images and video streams	software		Recognition and categorisation	more ...
Stemmer Imaging GmbH	vision toolbox	software library		learning, categorisation	more ...
Visual Tools S.A.	Retail data collection	People Counter (VS-Peco)	surveillance and monitoring	Learning, Recognition and categorisation	more ...
BAE Systems Ltd	Safer Landing and Taxiing	(none at present)	Aerospace		more ...
Massen machine vision systems GmbH	surface inspection, optical sorting, inline non-contact measurement	inspection systems	Ceramic tiles, laminates, floor and wall covering, automotive	Learning, categorisation	more ...
HS-ART	Digital film restoration, Media observation	software	Film, TV, Entertainment	Reasoning about events and structures, categorisation	more ...
Roke Manor Research	Video Motion Anomaly Detector (VMAD)	Hawk-Eye Tennis		Knowledge representation, reasoning and recognition & categorisation	more ...

June 2003

ECVISION **European Research Network for Cognitive Computer Vision Systems**

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Current page: **Information->Indexed and Annotated Bibliography**

ECVision indexed and annotated bibliography of cognitive computer vision publications
This bibliography was created by Hilary Buxton as part of ECVision Specific Action 8-1
The complete text version of this BibTeX file is available here: ECVision_bibliography.bib

ALTERNATIVE INDEX

Case Studies
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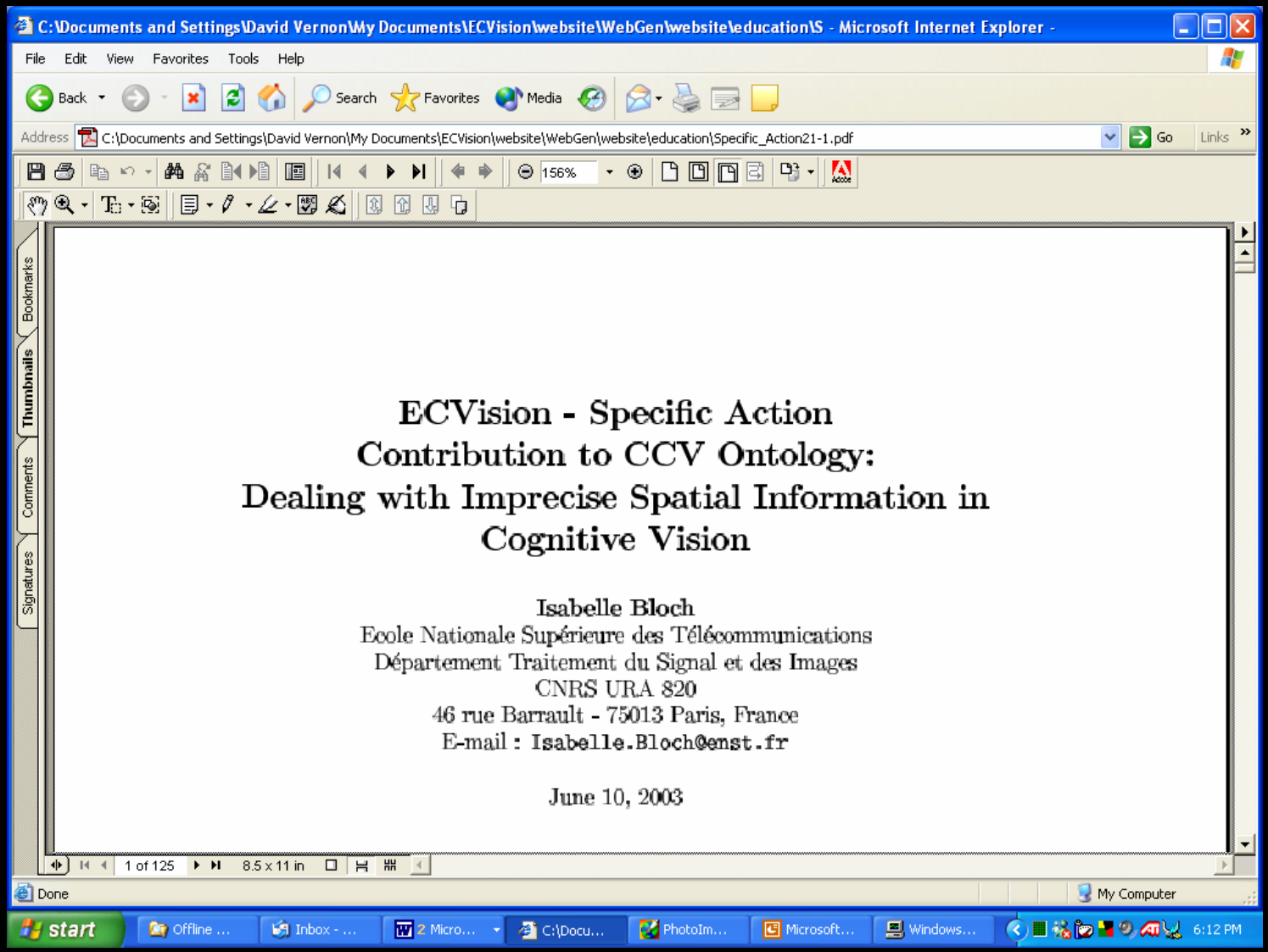
Spengler2002
Model Learning

June 2003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Go Links
156%
Bookmarks
Thumbnails
Comments
Signatures
ECVision - Specific Action
Contribution to CCV Ontology:
Dealing with Imprecise Spatial Information in
Cognitive Vision
Isabelle Bloch
Ecole Nationale Supérieure des Télécommunications
Département Traitement du Signal et des Images
CNRS URA 820
46 rue Barrault - 75013 Paris, France
E-mail : Isabelle.Bloch@enst.fr
June 10, 2003
1 of 125
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start
Offline ...
Inbox - ...
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PhotoIm...
Microsoft...
Windows...
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July 2003

ECVision: Cognitive Computer Vision Jobs

This page lists possible projects area of Cognitive Computer Vision.

If you have an idea about a possible project, at either the Masters or PhD level, and are hoping to find someone who might want to work on it (either at your site or elsewhere), then email information about it to: Bob Fisher, rbf *AT* inf.ed.ac.uk.

If you are interested in one of these projects, then please contact the proposer directly.

This list is not just for people involved in ECVision: European Research Network for Cognitive Computer Vision Systems.

PROJECT IDEAS

LEVEL (MS/PHD)	1 SENTENCE SUMMARY OF PROJECT	CONTACT NAME AND EMAIL	LINK TO DETAILS	DATE ENTERED
***	***	***	***	***

Date of last update: 07/18/2003 17:53:46

July 2003

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Intermediate prerequisite background knowledge:

August 2003

European Research Network for Cognitive Computer Vision Systems

Institute for Photogrammetry
Bonn University

RHEINISCHE FRIEDRICH-WILHELMS-UNIVERSITÄT

Summerschool
Cognitive Vision

Chair:

Prof. Dr.-Ing. W. Förstner, Bonn
wf@ipb.uni-bonn.de

Bonn, Germany
Monday 25. - Friday 29. August 2003
NEW General Information NEW

The Topic
Cognitive Vision

The intention:

The goal of the proposed summer school is to provide an intensive and challenging introduction to the area of cognitive computer vision. The summer school modules will be given by acknowledged experts in each key area.

The objective is to provide post-graduate students with a comprehensive introduction to all of the constituent areas of cognitive vision. This will help create a new generation of researchers in the area and will help maximize the impact of the ECVision network in the long run. In addition, it will provide practising researchers with an opportunity to learn about areas outside their main speciality and, hence, foster the cross-fertilization of ideas that is essential for real progress in the area.

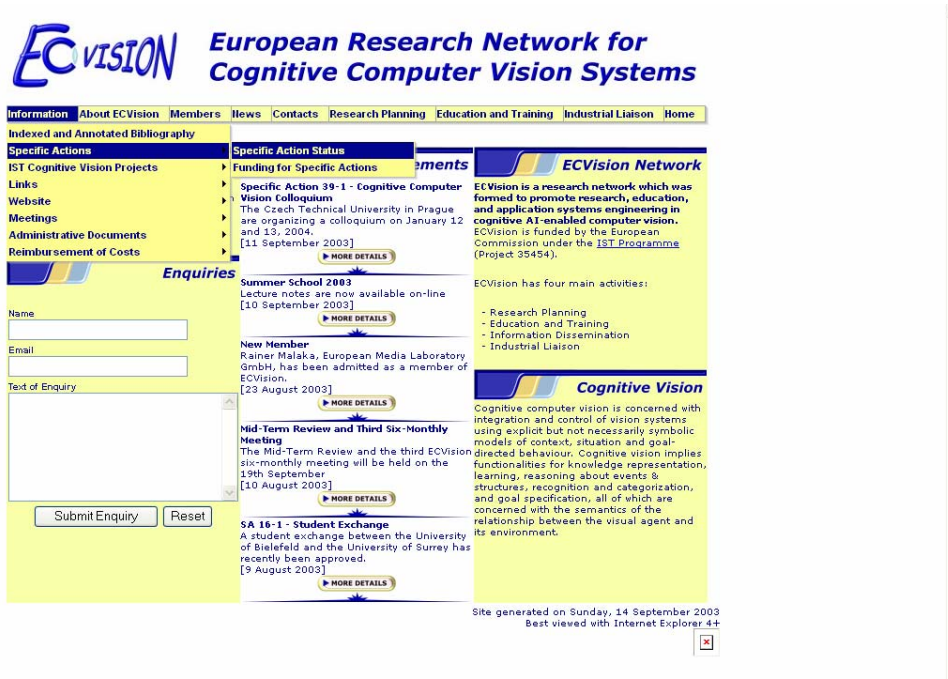
3rd Six-Monthly Periodic Management Report

(Consolidated Report for the period 1/3/02 – 31/8/03)

3rd Periodic Report

- Introduction
- New Members
- Highlights
- Summary of Activities by Area
- Specific Actions
- Deliverables
- Budgetary Status
- Critical Analysis of Progress
- Conclusion and Expectations for the Coming Semester

Specific Actions



Deliverables

ECVision – European Research Network for Cognitive Computer Vision Systems

List of Deliverables

Key:

TA*x.y.n* Target Area *x*, deliverable number *y*, month *n*

Target Areas:

1 Research Planning
2 Education and Training
3 Information Dissemination
4 Industrial Liaison
5 Information Infrastructure
6 Management

No	Deliverable title	Date
TA1.1.n	Workshop proceeding/report; n = 6, 12, ..., 36	n
TA1.2.n	Position paper; n= 6, 12, ... , 36	n
TA1.3	Advances in computer vision	6
TA1.4	Advances in artificial intelligence	6
TA1.5.n	White paper on cognitive vision research; n = 6, 12, ... , 36	n
TA1.6	Benchmark applications	6
TA1.7.n	Research Roadmap; n = 6, 12, ... , 36	n
TA1.8.n	Database of European research; n = 6, 12, ... , 36	n

No	Deliverable title	Date
TA2.1	Survey of existing courses on cognitive computer vision	6
TA2.2	Web-based repository of existing courseware and/or course slides	6
TA2.3	Web-based repository of M.Sc. and Ph.D. project proposals	6
TA2.4	Model curriculum for cognitive computer vision	12
TA2.5	Web-based encyclopedia of cognitive computer vision	12
TA2.6	Web-based listings of available positions and people seeking positions	12
TA2.7.n	Annual Best Ph.D. prizes in Cognitive Vision Systems; n = 12, 24, 36	n
TA2.8.n	Annual summer school on Cognitive Vision Systems; n = 7, 19, 31	n
TA2.9.n	Organization of tutorials; n = 12, 24, 36	n
TA2.10.n	Identification of common development environments; n = 12, 24, 36	
TA2.11.n	Contribution of code to the VXL and/or OpenCV; n = 12, 24, 36	n
TA2.12.n	Short-term exchange/visits of research staff; n = 12, 24, 36	n
TA2.13.n	Short-term exchange/visits of post-graduate students; n = 12, 24, 36	n
TA2.14	Textbook on cognitive computer vision	36

No	Deliverable title	Date
TA3.1.n	Electronic newsletter, published quarterly; n = 3, 6, ..., 36	n
TA3.2.n	Database of existing relevant publications; n = 6, 112, ..., 36	n
TA3.3.n	Annotated bibliography of literature, with summary of papers; n = 6, 12, ..., 36	n
TA3.4.n	Database of research results (presentations, videos, ...); n = 12, 24, ..., 36	n
TA3.5.n	Periodic distribution of web-site content on CD to all members; n = 12, 24, 36	n
TA3.6.n	Special sessions at conferences; n = 12, 24, 36	n
TA3.7.n	Sponsorship of best paper prizes in cognitive vision systems; n = 12, 24, 36	n
TA3.8.n	Thematic workshops; n = 12, 24, 36	n
TA3.9.n	Special issues in journals; n = 12, 24, 36	n
TA3.10.n	Focussed review papers in journals; n = 12, 24, 36	36

No	Deliverable title	Date
TA4.1.n	Database of research profiles and application experience, indexed by application, R&D topics, industrial sector; n = 12, 24, 36	n
TA4.2.n	Directory of vision vendors, indexed by application, product type, deployed technology, industrial sector; n = 6, 12, ... , 36	n
TA4.3.n	Database of application-motivated R&D problems and information on successful and unsuccessful approaches to solutions; n = 6, 12, ... , 36	n
TA4.4.n	List of techniques and their usefulness (or not) in certain classes of problems; n = 6, 12, ... , 36	n
TA4.5.n	Sponsorship of Best Application Development prizes in Cognitive Vision Systems; n = 12, ... , 36	n
SA1.1	CSCW infrastructure operational	3
SA1.2	Website core structure implemented	3
SA2.1.n	Periodic management report; n = 6, 12, ... , 36	n
SA2.2	Final report from ECVision	36

Deliverables Due

Research Planning

TA1.1.n	Workshop proceeding/report; n = 6, **12**, …, 36
TA1.2.n	Position paper; n= 6, **12**, … , 36
TA1.3	Advances in computer vision (month 6)
TA1.4	Advances in artificial intelligence (month 6)
TA1.5.n	White paper on cognitive vision research; n = 6, **12**, … , 36
TA1.6	Benchmark applications
TA1.7.n	Research Roadmap; n = 6, **12**, … , 36
TA1.8.n	Database of European research; n = 6, **12**, … , 36

Deliverables Due

Education and Training

TA2.1	Survey of existing courses on cognitive computer vision
TA2.2	Web-based respository of existing courseware and/or course slides
TA2.3	Web repository of MSc and PhD project proposals
TA2.4	Model curriculum for cognitive computer vision
TA2.5	Web-based encyclopedia of cognitive computer vision
TA2.6	Web-based listings of available positions & people seeking positions
TA2.7.n	Annual Best Ph.D. prizes in Cognitive Vision Systems; n = 12, 24, 36
TA2.8.n	Annual summer school on Cognitive Vision Systems; n = 7, 19, 31
TA2.9.n	Organization of tutorials; n = 12, 24, 36
TA2.10.n	Identification of common development environments; n = 12, 24, 36
TA2.11.n	Contribution of code to the VXL and/or OpenCV; n = 12, 24, 36
TA2.12.n	Short-term exchange/visits of research staff; n = 12, 24, 36
TA2.13.n	Short-term exchange/visits of post-graduate students; n=12, 24, 36
TA2.14	Textbook on cognitive computer vision

Deliverables Due

Information Dissemination

TA3.1.n Electronic newsletter, published quarterly; n = 3, 6, …, 36

TA3.2.n Database of existing relevant publications; n = 6, **12**, …, 36

TA3.3.n Annotated bibliography of literature; n = 6, **12**, …, 36

TA3.4.n Database of research results; n = **12**, 24, …, 36

TA3.5.n Periodic distribution of web-site content on CD; n = **12**, 24, 36

TA3.6.n Special sessions at conferences; n = **12**, 24, 36

TA3.7.n Sponsorship of best paper prizes in cognitive vision; n = **12**, 24, 36

TA3.8.n Thematic workshops; n = **12**, 24, 36

TA3.9.n Special issues in journals; n = **12**, 24, 36

TA3.10.n Focussed review papers in journals; n = **12**, 24, 36

Deliverables Due

Industrial Liaison

TA4.1.n Database of research profiles and application experience, indexed by application, R&D topics, industrial sector; n = 12, 24, 36

TA4.2.n Directory of vision vendors, indexed by application, product type, deployed technology, industrial sector; n = 6, 12, … , 36

TA4.3.n Database of application-motivated R&D problems and information on successful and unsuccessful approaches to solutions; n=6, 12, … 36

TA4.4.n List of techniques and their usefulness in certain classes of problems; n = 6, 12, … , 36

TA4.5.n Sponsorship of Best Application Development prizes in Cognitive Vision Systems; n = 12, … , 36

Deliverables Due

Information Infrastructure

SA1.1 CSCW Infrastructure operations

SA1.2 Website core structure implemented

Management

SA2.1.n Periodic management report ; n = 6, 12, … , 36

SA2.2 Final report on ECVision (due month 36)

Cost Statements

Six-Monthly Cost Statement

- 1st cost statement paid and disbursed to members
- 2nd cost statement submitted and cleared for payment?
- 3rd cost statement due now

Six-Monthly Cost Statement

	Electronic	Paper
Bonn	✓	✓
INRIA	✓	
INPG	✓	
KTH	-	-
Edinburgh		
PBConsulting		
Sussex		
ENST	✓	
TUV	✓	✓

Labour for coordination activities and for specific actions

Status of Budget

Status of Budget

Still significantly under-spending

18 Month Budget:	€628,500
18 Month Cost Statements	€345,293
Semester 1:	€194,243
Semester 2:	€150,451
Semester 3:	€100,592
Under-spend (45%):	€283,207

QUESTIONS?

&

ANSWERS!