I

Sixth and Final Six-Monthly Meeting

Frankfurt Airport Conference Centre
Friday 11th February 2005

Part I – Goals and Achievements

10:30	Welcome & Overview of the ECVision Network	(DV)
11:00	Research Planning & Research Roadmap	(JC)
11:30	Education and Training	(BF/WF)
12:00	Information Dissemination	(HB/DV)
12:30	Industrial Liaison	(PC/MT)

Part II – Follow-on Activities

14:00	Discussion: Lessons Learned & Work Remaining	(All)
15:00	eCognition: A Proposal for a Coordination Action for Cognitive Systems	(DV)
16:00	Open Forum: Questions, Answers, and Future Plans	(HB/DV)
17:00	Close of meeting	(DV)

Sixth and Final Six-Monthly Meeting

Overview of the ECVision Network

Frankfurt Airport Conference Centre
Friday 11th February 2005

Goals of the Network

EC VISION

European Research Network for Cognitive Computer Vision Systems

Current page: **Home**

Quote-Unquote

"Intelligence is concerned with that faculty of mind by which order is perceived in a situation previously considered disordered"
H. A. Fatmi and R. W. Wong
Nature, 220, 1970.

Enquiries

Name

Email

Text of Enquiry

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Announcements

CVonline
Some vision books are now online
[7 February 2005]
► MORE DETAILS

Overview Software Frameworks for Use in Cognitive Vision Approaches
The report is now available.
[2 February 2005]
► MORE DETAILS

Final ECVision Meeting
The sixth and final six-monthly meeting of ECVision will be held on the 11th February 2005.
[25 January 2005]
► MORE DETAILS

Cognitive Vision System wins BCS Prize
The BCS Machine Intelligence Prize 2004 was won by a cognitive vision system developed in the School of Computing at the University of Leeds.
[25 January 2005]
► MORE DETAILS

New Cognitive Systems Call
Cognitive Systems is one of the Strategic Objectives of IST Call 4,
[28 November 2004]
► MORE DETAILS

ECVision Network

ECVision is a research network which was formed to promote research, education, and application systems engineering in cognitive 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

To help define and establish the discipline of cognitive vision

cation and Training Industrial Liaison Home

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
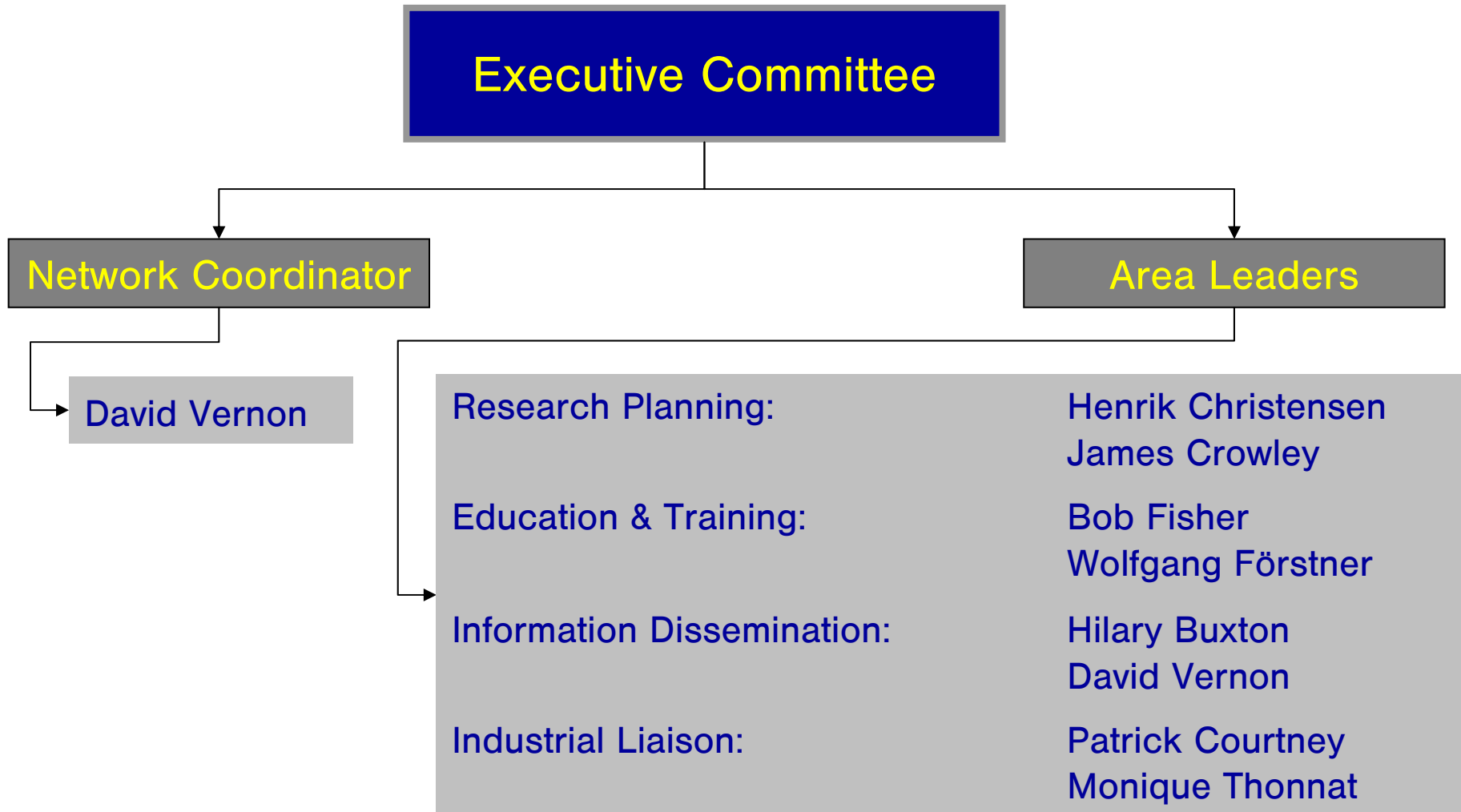- Industrial Liaison

Cognitive Vision

Organization

Three principal bodies are involved in the running of the network:

1. The Executive Committee
2. The Advisory Panel
3. The European Commission Officer

Executive Committee

Network Coordinator

David Vernon

Area Leaders

Research Planning:	Henrik Christensen
	James Crowley
Education & Training:	Bob Fisher
	Wolfgang Förstner
Information Dissemination:	Hilary Buxton
	David Vernon
Industrial Liaison:	Patrick Courtney
	Monique Thonnat

Advisory Panel

Andrew Blake, Microsoft Research, Cambridge

Mike Brady, University of Oxford

Jan-Olof Eklundh, Royal Institute of Technology

Olivier Faugeras, INRIA Sophia Antipolis

Hans-Hellmut Nagel, University of Karlsruhe

Giulio Sandini, University of Genoa – DIST

European Commission Officer

Colette Maloney

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

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

Education and Training

TA2.1   Survey of existing courses on cognitive computer vision

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TA2.13.n Short-term exchange/visits of post-graduate students; n=12, 24, 36

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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

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Industrial Liaison

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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

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)

Highlights

Research Roadmap

EC VISION

A Research Roadmap of Cognitive Vision

David Vernon (Ed.)

ECVision: The European Research Network for
Cognitive Computer Vision Systems

IST Project IST-2001-35454

website: www.ecvision.org
email: coordinator@ecvision.org

Version 4.1

February 7, 2005

ECVISION

A Research Roadmap of Cognitive Vision

Peter Auer   Aude Billard   Horst Bischof
Isabelle Bloch   Pia Boettcher   Heinrich Bülthoff
Hilary Buxton   Henrik Christensen   Tony Cohn
Patrick Courtney   Andrew Crookell   James Crowley
Sven Dickinson   Christof Eberst   Jan-Olof Eklundh
Bob Fisher   Wolfgang Förstner   John Gilby
Goesta Granlund   Vaclav Hlavac   Josef Kittler
Walter Kropatsch   Ales Leonardis   Jim Little
Giorgio Metta   Hans-Hellmut Nagel   Bernhard Nebel
Bernd Neumann   Heinrich Niemann   Lucas Paletta
Axel Pinz   Fiora Pirri   Gerhard Sagerer
Giulio Sandini   Bernt Schiele   Rebecca Simpson
Gerald Sommer   John Tsotsos   Monique Thonnat
David Vernon   Markus Vincze

Summer Schools
(2003, 2004, 2005?)

Institute of Photogrammetry Bonn

Uni Bonn
RHEINISCHE FRIEDRICH-WILHELMS-UNIVERSITÄT

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- Institute
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- Teaching
- Staff
- Projects
- Publications
- Events
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- local

EC VISION — European Research Network for Cognitive Computer Vision Systems

Second Summerschool
Cognitive Vision

Bonn, Germany
Monday 16. - Friday 20. August 2004
General Information and Registration

Chair

Prof. Dr.-Ing. W. Förstner

Model Syllabus

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:

Cognitive Vision Ontology

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)

CVonline Educational Material

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

CV ONLINE

Editor: Robert B. Fisher
School of Informatics
University of Edinburgh
CVonline URL: http://homepages.inf.ed.ac.uk/rbf/CVonline/

Background information

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

Compendium Contents

The unfolded list of topics.

The folded subject hierarchy:

1. Applications
2. Vision Related Books including Online Books and Book Support Sites
3. Databases and Indexing

Annotated Bibliography
(485 entries and counting)

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
   Bakstein2001 Bishop00a Koffka35a Nakayama90a riesenhuber00
   Hjelmas01 Gerstner:95 Maes:96 Granlund99 Edelman2002
   Nagel2003 CaelliBishof1996
Emerging Topics
  Vision and Language Fusion
     Roy1999 Nagel2001 Duygulu02 Gerber-Nagel:96 Turk:96
     Wachsmuth2002-BNF Nogawa1997 Edelman1994 SocherSagerer2000 Christmas2003
Knowledge Representation
  Content
    Activities/Behaviours/Processes/Dynamics
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    Classes/Categories
      Edelman1999
    Contexts/Scenes/Situations
      Chun98a
    Objects/Parts
      buelthoff5
    Parameters
      Finlayson1998
    Task Control
      YeTsotsos2001
  Issues
    Indexing
      Bremond:98
    Storage

White Paper on Industrial Applications

ECVISION 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

Application Prize

ECVISION

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

ECVision has sponsored a competition to identify the company that has best adopted the cognitive vision philosophy of adaptive learning in its products. This prize was awarded in May 2003 to Inx Systems Corp., Finland for its Optigrader on-line volume and quality measurement timber inspection system. The Optigrader uses self-organizing feature maps to effect learning via supervised training to yield a parameter-less classification / inspection system.

According to the winner, "The OptiGrader system is fully automatic and the grading processes do not require special staff. The production process with measurement, optimizing and grading is reliable and the sawmill do not require special technical staff to keep the system up and running, because there are no special parameters to adjust and the whole unit do not need any special service".

For more details, see the Inx Systems Website.

Dagstuhl Workshop

SCHLOSS DAGSTUHL INTERNATIONAL CONFERENCE AND RESEARCH CENTER FOR COMPUTER SCIENCE

Dagstuhl Seminar 03441

26.10.-31.10.2003,   Seminar Nº 03441

Cognitive Vision Systems

H. Christensen (Stockholm, S), H.-H. Nagel (Univ. Karlsruhe, D)

Seminar Data

- List of participants with talks + materials
- List of participants with adresses
  From outside of Dagstuhl this list is only accessible via anonymous login. Use "anonymous" as user id and your e-mail address as password. (Works similar to anonymous ftp.)
- Seminar Participants Group Picture
- Seminar Report

Dagstuhl Workshop

Software Frameworks Report

Technical Report for Special Action 13-2
Overview of Software Frameworks for Use in Cognitive Vision Approaches

Wolfgang Ponweiser and Markus Vincze

Automation and Control Institute,
Vienna University of Technology,
Gusshausstrasse 27-29 / E376, 1040 Wien, Austria
{ponweiser,vincze}@acin.tuwien.ac.at

Sebastian Wrede and Christian Bauckhage

Applied Computer Science,
Faculty of Technology, Bielefeld University,
P.O. Box 100131, 33501 Bielefeld, Germany
{swrede,cbauckha}@techfak.uni-bielefeld.de

January, 2005

28 Specific Actions

EC VISION **European Research Network for Cognitive Computer Vision Systems**

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Current page: **Information->Specific Actions->Specific Action Status**

SPECIFIC ACTION STATUS

Specific Action 1-1: Best Paper Prize in Cognitive Vision at ECCV'02
Specific Action 2-1: 1st Summer School in Cognitive Computer vision 2003
Specific Action 2-2: 2nd Summer School in Cognitive Computer vision 2004
Specific Action 6-1: Cognitive Vision Education Survey
Specific Action 6-2: Restructuring of CVOnline
Specific Action 6-3: Encyclopedia Cognitive Computer vision
Specific Action 6-4: Education / Online Books
Specific Action 7-1: White Paper on Applications of Cognitive Vision Systems
Specific Action 7-2: Prize for Best Application Development in Cognitive Vision Systems
Specific Action 7-3: Industrial Activity – Project Liaison
Specific Action 7-4: IST Conference – ECVision Organization of Cognitive Systems Events
Specific Action 8-1: Keyword Indexed Bibliography with Abstracts of Papers
Specific Action 8-2: ECCV 2004 Workshop on "Real-World Issues in Animate Vision"
Specific Action 8-3: Probabilistic Graphical Models for Cognitive Computer Vision
Specific Action 12-1: Staff/Student Exchange – University of Oxford and Graz University of Technology
Specific Action 13-1: ICVS'03 – 3rd International Conference on Computer Vision Systems
Specific Action 13-2: Overview of software Frameworks for Use in Cognitive Vision Approaches
Specific Action 13-3: Staff/Student Exchange – Vienna University of Technology
Specific Action 16-1: Staff/Student Exchange – University of Bielefeld and University of Surrey
Specific Action 16-2: Staff/Student Exchange – University of Bielefeld and University of Surrey
Specific Action 21-1: Cognitive Computer Vision Ontology Development
Specific Action 21-2: Imprecise Knowledge Representations in Cognitive Vision
Specific Action 25-1: CVPR 2004 Workshop on Generic Object Recognition and Categorization
Specific Action 33-1: ECCV 2004 Workshop on Statistical Learning for Computer Vision
Specific Action 37-1: WAPCV 2003 – Workshop on Attention and Performance in Computer Vision
Specific Action 37-2: WAPCV 2004 – Workshop on Attention and Performance in Computer Vision

The Membership!
(50 Institutions & 63 Individuals)

EC VISION

European Research Network for Cognitive Computer Vision Systems

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Current page: **Members->List of Members**

To send email to all members of ECVision, send your message to: EveryMember@lists.ecvision.org

Note that, to prevent irrelevant or spurious messages, emails to this list are moderated by the network coordinator and are restricted to members of ECVision.

Alternatively, you can contact each member individually:

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Bischof,	Horst	Graz University of Technology	bischof@icg.tu-graz.ac.at	▶ MORE DETAILS
Blake,	Andrew	University of Oxford & Microsoft Research		▶ MORE DETAILS
Brady,	Mike	University of Oxford	jmb@robots.ox.ac.uk	▶ MORE DETAILS
Boettcher,	Pia	PBConsulting GmbH	pia.boettcher@gmx.de	▶ MORE DETAILS
Bottoni,	Paolo	University of Rome	bottoni@dsi.uniroma1.it	▶ MORE DETAILS
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Faugeras,	Olivier	INRIA Sophia Antipolis	Olivier.Faugeras@sophia.inria.fr	▶ MORE DETAILS
Ferryman,	James	University of Reading	j.m.ferryman@reading.ac.uk	▶ MORE DETAILS

Status of Budget

ECVision is dead
Long Live ECVision

- Website will continue to be maintained

- 3rd ECVision Summer-school in Bonn August 2005

- International Cognitive Vision Workshop (ICVW 2006) at ECCV 2006 in Graz

ECVISION

European Research Network for Cognitive Computer Vision Systems

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