

# Curriculum Vitae

## PERSONAL DATA

Name: Danica Kragic Jensfelt  
 Date of birth: August, 10th 1971.  
 Civil status: married, one child

Current employment: Professor of Computer Science  
 School of Computer Science and Communication  
 Kungliga Tekniska Högskolan (KTH)  
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Docent degree: 2006, Computer Science, KTH, Sweden  
 Doctoral degree: 2001, Computer Science, KTH, Sweden  
 MSc degree: 1995, Mechanical Engineering, TU Rijeka, Croatia

Danica Kragic is a Professor of Computer Science at the School of Computer Science and Communication at KTH and Acting Director of the interdisciplinary research centre Centre for Autonomous Systems. In 2007, she received the 2007 IEEE Robotics and Automation Society Early Academic Career Award. In 2008, she received the Swedish Foundation for Strategic Research Future Research Leaders Award. From 2006, she is the chair for the IEEE Robotics and Automation Society Technical Activity Board for Computer and Robot Vision and a member of the IEEE RAS Conference Editorial Board. She was the PI for several projects financed by the Swedish Research Council: *Human Machine Collaborative Systems*, *Robot Learning by Demonstration* and *Modeling Complex Robot Manipulation Tasks by Human Interaction and Learning*. She is the coordinator for the FP7-EU Integrated Project *GRASP*, and one of the PIs for the FP7-EU Integrated Project *CogX* and FP6-EU Integrated Project *PACO-PLUS*. She is currently supervising seven PhD students and five postdoctoral researchers. In 2008, she was also granted an Integrated Project (25 MSEK) for the robotics research financed by the Swedish Foundation for Strategic Research in the area of IT. At KTH, she is responsible for the Autonomous Systems undergraduate specialization and a member of the Undergraduate Committee.

As a part of the Centre for Autonomous Systems, she is coordinating NOMAN: Novel Manipulation Project that involves students from four different departments: Computational Vision and Active Perception (CVAP), Mechatronics/Machine elements (DAMEK), Signal Processing and Control (S3) and Optimization and Systems Theory (OPTSYST). She has been an organizer of workshops and tutorials at the IEEE/RSJ International Conference on Intelligent Robots and Systems 2004, IEEE International Conference of Robotics and Automation 2005 and 2007 and European Conference on Computer Vision 2008. She is one of the Programme Chairs for the Schloss Dagstuhl Conference to be held in October, 2009. Her research interest involve development of vision systems and vision based control; human-robot interaction and collaboration, object grasping and manipulation.

Danica is involved in teaching of both graduate and undergraduate courses and supervision of Master and PhD students. Her major collaborations involve computer science and robotic groups at University of Karlsruhe (Germany), Johns Hopkins University (USA), Brown University (USA) and Lappeenranta University of Technology (Finland). She has more than 90 publications in internationally refereed journals and conferences.

## POSTDOCTORAL and LONGER SCIENTIFIC VISITS

April - Sept 2000	Columbia University, New York, USA
February - May 2003	The Johns Hopkins University, Baltimore, MD, USA
March - April 2004	IRISA/INRIA Rennes, France
March 2006	IRISA/INRIA Rennes, France
April 2006	Brown University, USA
May - June 2006	The Johns Hopkins University, Baltimore, MD, USA

## TEACHING ACTIVITIES and APPOINTMENTS HELD

2009 -	Director, Centre for Autonomous Systems, KTH
2008 -	Professor, School of Computer Science and Communication (CSC), KTH
2005-2008	Associate Professor, CSC, KTH
from Feb, 2006	IEEE RAS Conference Editorial Board
from Jan, 2006	Chair of IEEE RAS Technical Activity Board of Computer and Robot Vision
2003-2005	Assistant Professor, NADA, KTH
from June 2005	Responsible for Autonomous Systems undergraduate specialization
from April, 2005	Member of the Undergraduate Board, CSC, KTH School of Computer Science and Communication, KTH ( <i>Kompetensinriktning Autonomasystem</i> )
Currently Teaching:	Artificial Intelligence, Computer Vision, Machine Learning,
2003	Visual servoing (graduate course),
2003	Grasping and Manipulation (graduate course)
January 1997 – June 2001	Researcher (PhD candidate), KTH Department for Numerical Analysis and Computer Science
1999 – 2000	Teaching assistant, Object Oriented Programming with C++, Numerical Analysis and Computer Science Department, KTH
1991-1995	Teaching assistant in Mathematics and Kinematics, University of Rijeka, Croatia

## PROJECTS

- **Modeling Complex Robot Manipulation Tasks by Human Interaction and Learning**, 2007-2009 (700 kSEK/year), main applicant, financed by the Swedish Research Council (Vetenskapsrådet)
- **Human-Machine Collaborative Systems**, 2004-2006 (550 kSEK/year), main applicant, financed by the Swedish Research Council (Vetenskapsrådet)
- **Robot Learning by Demonstration**, 2003-2005 (610 kSEK/year) co-applicant, main PI during the grant period, financed by the Swedish Research Council (Vetenskapsrådet)
- **Cognitive Cooperative Robot Systems**, 2008-2012 (8.5 MSEK), main applicant, financed by the Swedish Foundation for Strategic Research (SSF)
- **Interaction, Learning and Cognition in Robot Systems**, 2009-2013 (25 MSEK), main applicant, financed by the Swedish Foundation for Strategic Research (SSF)
- EU IST IP 7th program **GRASP**, *Cognitive Grasping through Introspection, Emulation and Surprise*, (12 MSEK) project coordinator
- EU IST IP 7th program **CogX**, *Cognitive Systems that Self-Understand and Self-Extend*, (11 MSEK) co-PI at KTH

- EU IST IP 6th program **PACO-PLUS**, *Perception Action and Cognition through Learning of Object-Action Complexes*, (11 MSEK) PI at KTH
- Croatian Ministry of Sciences project **IGRAMO**, *Improving GRAsping Movements by predictions based on Observation*, (0.8MSEK), main applicant
- Chinese Ministry of Sciences, research collaboration/exchange project with Tsingua University, (2.5MSEK), co-applicant

### **SUPERVISION - Ongoing PhD students**

**Jeannette Bohg**, from 2008 (main superv)  
**Niklas Bergström**, from 2008 (main superv)  
**Yasemin Bekiroglu**, from 2008(main superv)  
**Carl Barck-Holst**, from 2008 (main superv)  
**Javier Romero Gonzalez-Nicolas**, from 2007 (main superv)  
**Maja Karasalo**, from 2005 (co-supervisor)  
**Thomax Feix**, from 2008 (co-supervisor)

### **SUPERVISION - Supervised PhD students**

**Staffan Ekvall**, PhD defended 2007 (main supervisor)  
**Daniel Aarno**, Licentiate defended 2007 (main superv)  
**Frank Lingelbach**, Licentiate defended 2005 (co-supervisor)

### **SUPERVISION - Postdoctoral researchers**

1. Ville Kyrki (2003-2004, October-December 2006)
2. Marten Bjorkman (from January 2007)
3. Hedvig Kjellstrom (from January 2007)
4. Kai Hubner (from January 2007)
5. Maria Ralph (from August 2008)
6. Dan Song (from September 2008)
7. Gert Kootstra (from October 2009)

### **SUPERVISION - MSc and internship students**

1. Florian Jäger, (M. Sc. 2001) "Object recognition with Support Vector Machines",
2. Niklas Hallenfur, (M.Sc. 2002), "Object recognition for service robot tasks"
3. Ditrich Brunn (internship, 2002) "Measurement uncertainties in visual servoing"
4. Daniel Aarno (MSc, 2003) "Real-Time Operating Systems and Path Planning"
5. Miriam Von Tiedemann (MSc, 2003) "Automated image-adaptive point-spread function estimation"
6. Daniel Wardzynski (MSc, 2003) "Constraint Satisfaction Problems for RoboCup"
7. Martin Greber (MSc 2003) "Player Positioning Startegies in RoboCup"
8. Michel Longrenn (MSc 2004) "Automated detection and decision of applying camera model theory"
9. Fredrik Arnell (MSc 2004) "Road Scene Monitoring for Autonomous Vehicle Navigation"
10. Christer Gustavsson (MSc 2004) "Development and Evaluation of Interest Point Detection for Neural Imaging"

11. Simon Gustafsson (MSc 2004) "Object Tracking for Human-Robot Collaborative Tasks"
12. Joan Francesc Serracant Lorenzo (2005, internship) "Texture Mapping for Map Generation in Robotic Navigation Tasks"
13. Peter Preisig (internship) "Evaluation of Robust Statistics in Model Based Tracking"
14. Rui Marques (MSc 2005) "Feature Detection and Evaluation for Visual Simultaneous Localization and Mapping"
15. Omar Mubin (MSc 2005) "Visual Simultaneous Localization and Mapping"
16. Robin Olofsson (MSc 2005) "Vision Based Simultaneous navigation and Mapping"
17. Ken Grapenquist (MSc 2005) "Learning Manipulation and Grasping from Humans"
18. Matthias Schwegler (2005, internship) "Defining Low-level primitives for Learning by Demonstration"
19. Isabel Serrano (MSc 2006) "Integration of PCA and HMM for Learning of Human Activities"
20. Jesus Ignacio Bueno (MSc 2006) "Adaptive Gaussian Mixture Models for Posture Recognition"
21. Javier Romero Gonzalez-Nicolas (MSc 2007) "Binocular hand tracking and pose estimation"
22. Javier Gratal Martinez (MSc 2007) "Evaluation and modeling of visual servoing tasks"
23. Niklas Bergstöm (2007, internship) "Modeling of corrective movements for Karlsruhe hand"
24. Emmad Rafi (MSc 2007), "Evaluation of feature descriptors for pose estimation"
25. Aftab Hussain (MSc 2007), "View-based automatic pose initialization"
26. Daniel Oscarsson (Msc 2007), "Hierarchical interest point description with an eigentree"
27. Martina Schmidt (2007, internship) "Modeling grasping processes with robotic hands"
28. Steffen Ruthotto (2007, internship) "A framework for modeling of corrective movements"
29. Per Rosengren (MSc 2007) "Pose Initialization by Analyzing the Feature Points of a Virtual Model"
30. Daniel Banksell (MSc 2008) "Evaluation of the Minimum Volume Bounding Box Representation for Object Grasping"
31. Sebastian Geidenstam (Msc 2008) "Learning to Grasp Novel 3D Objects with 2D Grasping Strategies"
32. Fredrik Holmar (MSc 2009) "Probabilistic approaches to grasp selection"
33. Oscar Rubio (MSc 2009) "Grasp reasoning using hierarchical objects representations"
34. Zhanwu Xiong (MSc 2009) "Object tracking using mean-shift filtering"

#### **EDITORIAL APPOINTMENTS, AWARDS and GRANTS**

2008	Editorial Board, Journal: Trends in Robotics
2008	Editorial Board, Journal of Robotics
2008	Foundation for Strategic Research: Future Research Leaders Award
2007	IEEE Robotics and Automation Society, Early Early Academic Career Award
2007	International Federation of Robotics, KTH representative
2006	IEEE Conference Editorial Board
2006	IEEE Robotics and Automation Society, chair Computer and Robot Vision
2003	IEEE Associate Member
2004	ICRA 2004, runner up for the best vision paper award
2006	Hans Werthen Fonden
2003	Ragnar and Astrid Signelius Foundation
2002	Bernt Jarmarks Foundation for Scientific Research
2002	Wenner-Gren foundation
2000, 2001, 2002, 2005	Royal academy of Sciences (KVA)
1997	Ragnar och Astrid Signelius Foundation
1992-1995	Grant for students with high GPA from the Town of Rijeka

## SELECTED INVITED TALKS and LECTURES

- 2009 Keynote talk, *12th International Scientific Conference on Production Engineering*, Biograd, Croatia
- 2009 Keynote talk, *Physical Agents Workshop, WAF'09*, Caceres, Spain
- 2009 Keynote talk, *Swedish Artificial Intelligence Society (SAIS)*, Linköping, Sweden
- 2009 Invited talk, Workshop: Bridging the gap between high-level discrete representations and low-level continuous behaviors at the *Robotics: Science and Systems, RSS'09*, Seattle, USA
- 2009 Invited talk, *University of Edinburgh*, UK
- 2008 Invited talk, *EU ICT conference*, Lyon, France
- 2008 Invited talk, *Croatian Academy of Sciences*
- 2008 Invited talk, Workshop: Grasp and Task Learning by Imitation at the *IEEE IROS'08*, Nice, France
- 2007 Invited lecturer, *EURON Summerschool on Assistive Robots*, Benicassim, Spain, (one full week)
- 2007 Invited talk, *13th International Symposium of Robotics Research, ISRR'07*, Hiroshima, Japan (declined)
- 2007 Invited talk, Workshop: Towards Cognitive Humanoid Robots, *IEEE Humanoids*, Genova, Italy
- 2006 Invited lecturer, *Umeå School of Design*, Sweden
- 2006 Invited talk, *IRISA-INRIA, Lagadic group*, Rennes, France
- 2006 Invited talk, *Johns Hopkins University*, USA
- 2005 Invited lecturer, *IOCoViST International Online Course on Visual Servoing Techniques* (one full week)  
<http://www.robot.uji.es/lab/plone/events/IOCoViST/>
- 2005 Invited talk, Workshop: Mobile Manipulators - Basic Techniques, New Trends and Applications, at the *IEEE IROS*, Edmonton, Canada
- 2005 Invited lecturer, *University of Girona*, Spain (*Visual Tracking*, 3 days)
- 2004 Invited talk, Workshop: Advances in Robot Vision- From Domestic Environments to Medical Applications, at *IEEE IROS*, Sendai, Japan
- 2004 Invited talk, *INRIA*, Sophia Antipolis, France
- 2004 Invited talk, Workshop: Issues and Approaches to Task Level Control at *IEEE IROS*, Sendai, Japan
- 2004 *EURON Summerschool on Mobile Manipulation*, Benicassim, Spain, (one full week)
- 2004 *Nordic forum for human-computer interaction research, NordCHI*, Tampere, Finland  
Panel: User-Centred Proactive Technology Design, (invited talk)
- 2004 Invited talk, 'Sonja Kovalevsky dagarna', Linköping, Sweden
- 2003 Invited lecturer, *University of Verona*, Verona, Italy, (4 days)
- 2003 Invited talk, *Museum of Technical Sciences*, Stockholm, Sweden
- 2002 Invited talk, *Brown University*, USA
- 2002 *EURON Summerschool on Visual Servoing*, Benicassim, Spain, (one week)

## CONFERENCE/WORKSHOPS/SUMMERSCHOOL ORGANIZER

- 2009 Conference: Schloss Dahstuhl "*From Form to Function*"
- 2009 Special Session: "*Mapping, Detecting and Grasping Objects in Domestic Environments*" at the IEEE International Conference on Advanced Robotics, ICAR'09
- 2008 Workshop: "*Vision in Action: Efficient strategies for cognitive agents in complex environments*" at the 10th European Conference on Computer Vision, ECCV'08
- 2007 Workshop: "*From features to actions: unifying perspectives in computational and robot vision*" at the IEEE International Conference of Robotics and Automation, ICRA'07
- 2005 Tutorial: "*Visual Tracking: 2D/3D Methods and Cue Integration*" at the IEEE International Conference of Robotics and Automation, ICRA'05
- 2004 Workshop: "*Advances in Robot Vision - From Domestic Environments to Medical Applications*" at the IEEE/RSJ International Conference on Intelligent Robots and Systems, IROS'04
- 2002 Summerschool: "*Simultaneous Localization and Mapping*" at KTH
- 1997 Symposium: *Symposium on Robotics Systems: SIRS '97* at KTH

## **PROGRAMME and DEFENSE COMMITTEE**

- 2009 PhD Defense Committee (D. Shaw, Australian National University)
- 2009, June PhD Defense Committee (M. Pratts, University of Castellon)
- 2009, Area chair, Robotics, Science and Systems
- 2009, Program committee: IEEE ICRA, IEEE IROS, IEEE ICAR, IEEE RO-MAN, ECMR
- 2008, Sept PhD Defense Committee (G. Lopez, University of Zaragoza)
- 2008, Sept PhD Defense Committee (J.Chen, Blekinge TH)
- 2008, Program committee: IEEE ICRA, IEEE IROS, IEEE ICAR, IEEE RO-MAN
- 2007, June PhD Defense Committee (M. Huss, KTH)
- 2007, May PhD Defense Committee (T. Olsson, Lund University)
- 2007, April PhD Defense Committee (G. Cielniak, Örebro University)
- 2007, Jan PhD Defense Committee (H. Hüttenrauch, KTH)
- 2007 Program committee: IEEE Computer Vision and Pattern Recognition (CVPR),  
IEEE Int. Conf. on Robotics and Automation (ICRA),  
IEEE/RSJ Int. Conf. on Intelligent Robots and Systems (IROS)  
Robots, Science and Systems (RSS)  
International Cognitive Vision Workshop (ICVW)
- 2006 Program committee: IEEE ICRA, IEEE/RSJ IROS
- 2006 Program committee: IEEE ICRA, Best Vision Paper Award
- 2006 Program committee: International Conference on Computer Vision (ICCV)
- 2006, Nov PhD Defense Committee (M. Rehn, KTH)
- 2006, Sept Licentiate opponent (A. Skoglund, Örebro University)
- 2006, June PhD Defense Committee (J. Brynielsson, KTH)
- 2006, July PhD Defense Committee (R. Wei, Australian National University)
- 2005, Program committee: IEEE CVPR, IEEE ICRA, IEEE/RSJ IROS, IEEE ICAR, ICCV
- 2005, Program committee: European Conference on Computer Vision (ECCV)
- 2005, Apr Licentiate opponent (R. Soderberg, Linköping University)

## **REVIEWING: Journals and Project proposals**

- European Commission: IP reviewer
- IEEE Pattern Analysis and Machine Intelligence
- IEEE Transactions on Robotics and IEEE Transactions on Control
- IEEE Transactions on Automation Science and Engineering
- Advanced Robotics
- Robotics and Autonomous Systems
- International Journal of Robotic Research
- International Journal of Robotics and Automation
- Journal of Field Robotics
- Applied Bionics and Biomechanics
- Computer Vision and Image Understanding
- Image and Vision Computing
- Automatica
- Information Sciences
- EURON (European Robotic Network) project proposal reviewer
- STINT (Swedish foundation for International Cooperation in Research and Higher Education) project proposal reviewer

## Networks in academia and industry

- Prof. Rüdiger Dillmann** and **Dr. Tamim Asfour** (University of Karlsruhe, Germany), [www.aim.ira.uka.de/dilepis2/](http://www.aim.ira.uka.de/dilepis2/)
- Prof. Darius Burschka** (TU Munich, Germany), [www6.in.tum.de/burschka/](http://www6.in.tum.de/burschka/)
- Prof. Gregory D. Hager** (Johns Hopkins University, USA), [www.cs.jhu.edu/~hager/](http://www.cs.jhu.edu/~hager/)
- Assoc. Prof. Allison Okamura** (Johns Hopkins University, USA), [www.me.jhu.edu/~allison](http://www.me.jhu.edu/~allison)
- Prof. Carlos Sagues**, (University of Zaragoza, Spain), [http://i3a.unizar.es/ficha\\_personal.php?ver=csagues@unizar.es](http://i3a.unizar.es/ficha_personal.php?ver=csagues@unizar.es)
- Prof. Michael Black** (Brown University, USA), [www.cs.brown.edu/people/black/](http://www.cs.brown.edu/people/black/)
- Prof. Paolo Fiorini**(University of Verona, Italy), [www.sci.univr.it/~fiorini](http://www.sci.univr.it/~fiorini)
- Prof. Rafael Garcia** (University of Girona, Spain), [eia.udg.es/~rafa/presentation.html](http://eia.udg.es/~rafa/presentation.html)
- Dr. Francois Chaumette** (IRISA, Rennes, France), [www.irisa.fr/lagadic/team/Francois.Chaumette-eng.html](http://www.irisa.fr/lagadic/team/Francois.Chaumette-eng.html)
- Assoc. Prof. Antonis Argyros**, (University of Crete, Greece), [www.ics.forth.gr/~argyros](http://www.ics.forth.gr/~argyros)
- Prof. Norbert Krüger** (The Maersk Mc-Kinney Moller Institute for Production Technology, University of Southern Denmark) [www.mip.sdu.dk/people/Staff/norbert.html](http://www.mip.sdu.dk/people/Staff/norbert.html)
- Assoc. Prof. Enric Cervera** (Jaume-I Univ., Castello, Spain), [www.robot.uji.es/people/ecervera/](http://www.robot.uji.es/people/ecervera/)
- Dr. Ales Ude** (Jozef Stefan Institute, Ljubljana, Slovenia), [www2.ijs.si/~aude/](http://www2.ijs.si/~aude/)
- Prof. Xiaoming Hu** (OPTISYST, KTH, Stockholm, Sweden), [www.math.kth.se/~hu/](http://www.math.kth.se/~hu/)
- Prof. Bo Wahlberg** (S3, KTH, Stockholm, Sweden), [www.s3.kth.se/~bo](http://www.s3.kth.se/~bo)
- Prof. Jan Wikander** (DAMEK, KTH, Stockholm, Sweden), [www.md.kth.se/~jan](http://www.md.kth.se/~jan)
- Doc. Ville Kyrki** (Lappeenranta Univ. of Technology, Finland), [www.lut.fi/~kyrki](http://www.lut.fi/~kyrki)
- Dr. Barbara Caputo** (IDIAP Research Institut, Martigny, Switzerland), [www.idiap.ch/contact.php?nMemberId=258](http://www.idiap.ch/contact.php?nMemberId=258)
- Dr. Lars Petersson** (Australian National University, Canberra), [users.rsise.anu.edu.au/~larsp/](http://users.rsise.anu.edu.au/~larsp/)
- Dr. Patric Jensfelt** (Centre for Autonomous Systems, KTH, Stockholm, Sweden), [www.nada.kth.se/~patric](http://www.nada.kth.se/~patric)
- Per Ljunggren**, Intelligent Machines, [www.intmach.com](http://www.intmach.com)
- Dr. Branko Glisic**, Princeton University, USA

# Publication list

Danica Kragic

## REFEREED JOURNAL/MAGAZINE ARTICLES

Most of the below publications are available through: IEEE Xplore (<http://ieeexplore.ieee.org>).  
All conference and workshop papers are refereed by at least two reviewers.

- J1. Kragic, D. & Christensen, H. (2001), 'Cue integration for visual servoing', *IEEE Transactions on Robotics and Automation*, Volume 17, no. 1, pp. 18-27
- J2. Kragic, D., Petersson, L. & Christensen, H. (2002), 'Visually guided manipulation tasks', *Robotics and Autonomous Systems*, Volume 40, pp. 193-203
- J3. Kragic, D. & Christensen, H. (2003), 'Robust Visual Servoing', *International Journal of Robotics Research*, Volume 22, Number 10-11, pp. 923-939
- J4. Kragic, D. (2004), 'Modeling, Specification and Robustness Issues for Robotic Manipulation Tasks', *International Journal of Advanced Robotic Systems*, Volume 1, pp. 75-86
- J5. Kragic, D., Hager, G., Okamura, A., Mahyong, P., & Li, N. (2005), 'Human-Machine Collaborative Systems for Microsurgical Applications', *International Journal of Robotics Research*, Volume 24, Issue 9, pp. 731-742
- J6. Kragic, D., Bjorkman, M., Christensen, H. & Eklundh, J.-O. (2005), 'Vision for Robotic Object Manipulation in Domestic Settings', *Robotics and Autonomous Systems*, Volume 52, Issue 1, pp. 85-100
- J7. Ekvall, S., Kragic, D. & Hoffmann, F. (2005), 'Object Recognition and Pose Estimation using Color Cooccurrence Histograms and Geometric Modeling', *Image and Vision Computing*, Volume 23, Issue 11, pp. 943-955
- J8. Ekvall, S., Aarno D. & Kragic, D. (2006), 'On-line Task Recognition and Real-Time Adaptive Assistance for Computer Aided Machine Control', *IEEE Transactions on Robotics*, Volume 22, Issue 5, pp. 1029-1033
- J9. Kyrki, V., Kragic, D. & Christensen, H.I. (2006), 'Measurement Errors in Visual Servoing', *Robotics and Autonomous Systems*, Volume 54, Issue 10, pp. 815-827
- J10. Fiorini, P. & Kragic, D. (2006), Education by competition *IEEE Robotics and Automation Magazine*, Volume 13, Issue 3, pp. 6
- J11. Fernlund, J., Zimmerman R. & Kragic, D. (2006), 'Effect of volume/mass on grain-size curves and conversion of image-analysis size to sieve size', *Journal of Engineering Geology*, Volume 90, Issue 3-4, pp. 124-137
- J12. Ekvall, S., Kragic, D. & Jensfelt, P. (2006), 'Integrating SLAM and Object Detection for Service Robot Tasks', *Robotica*, Volume 25, Part 2, pp. 175-188
- J13. Serrano, I., Larsson, M., Kyrki, V. & Kragic, D. (2007), 'Action Recognition and Understanding through Motor Primitives', *International Journal of Advanced Robotics*, Volume 21, Number 15, pp. 1687-1707
- J14. Kruger, V., Kragic, D., Geib, C. & Ude, A. (2007), 'The meaning of Action: A review on human action recognition and mapping', *International Journal of Advanced Robotics*, Volume 21, Number 13, pp. 1473-1501

- J15.** Ekvall, S. & Kragic, D.(2008), 'Learning from Demonstration: A task-level planning approach', *International Journal of Advanced Robotics Systems*, Volume 5, Number 3, pp. 223-234
- J16.** Tegin, J., Wikander, J., Ekvall, S., Kragic, D. & Illev, B. (2008), 'Demonstration Based Learning and Control for Automatic Grasping', *Intelligent Service Robotics*, Volume 3, Issue 1, pp. 23-30
- J17.** Lopez-Nicolas, G., Sagues, C., Guerrero, J.J., Kragic, D. & Jensfelt, P.,(2008), 'Switching Visual Control Based on Epipoles for Mobile Robots', *Robotics and Autonomous Systems*, Volume 56, Issue 7, pp. 592-603
- J18.** Aarno, D. & Kragic, D. (2008), 'Layered HMM for Motion Intention Recognition', *Robotics and Autonomous Systems*, Volume 56, pp. 692-705
- J19.** Kraft, D., Baseski, E., Popovic, M., Kruger, N., Pugeault, N., Kragic, D., Kalkan, S. & Worgotter, F. (2008), 'Birth of the object: Detection of objectness and extraction of object shape through object action complexes', *International Journal of Humanoid Robotics*, Volume 5, Number 2, pp. 247-265
- J20.** Sjo, K., Galvez, D., Paul, C., Jensfelt, P. & Kragic, D. (2009), 'Object search and localization for an indoor mobile robot', *Journal of Computing and Information Technology*, Volume 1, pp. 67-80, doi:10.2498/cit.1001182
- J21.** Kragic, D. & Vincze, M. (2009), 'Robotics Vision', *Trends in Robotics*, (accepted, in print, 60 pages)
- J22.** Karasalo, M., Piccolo, G., Kragic, D., & Hu, X. (2009), 'Contour Reconstruction using Recursive Smoothing Splines - Algorithms and Experimental Validation', *Robotics and Autonomous Systems*, (accepted, in print, 12 pages)
- J23.** Kyrki, V. & Kragic, D. (2009), 'Tracking Rigid Objects using Integration of Model-based and Model-free Cues', *Machine Vision and Applications*, (conditionally accepted, 16 pages)
- J24.** Rasolzadeh, B., Bjorkman, M., Huebner, K. & Kragic, D. (2009), 'An Active Vision System for Detecting, Fixating and Manipulating Objects in Real World', *International Journal of Robotics Research*, (accepted, 40 pages)
- J25.** Bohg, J., Barck-Holst, C., Huebner, K., Ralph, M., Rasolzadeh, B., Song, D. & Kragic, D. (2009), 'Towards Grasp-Oriented Visual Perception for Humanoid Robots', *International Journal of Humanoid Robotics*, (accepted, 48 pages)

## REFEREED CONFERENCE / WORKSHOP CONTRIBUTIONS

- C1.** Kragic, D. & Christensen, H. (1999), 'Using a redundant coarsely calibrated vision system for 3D grasping', in M. Mohammadian, ed., 'Proceedings of the Computational Intelligence for Modelling, Control and Automation, CIMCA'99', IOS Press, pp. 91-97.
- C2.** Christensen, H. & Kragic, D. (1999), 'Robust Vision for Manipulation and Mobility', In Proc. 23rd OAGM/AAPR Workshop, Ed. M. Vincze, pp 1-22, May 1999. Steyr, Austria
- C3.** Sidenbladh, H., Kragic, D. & Christensen, H. (1999), A person following behaviour for a mobile robot, in 'Proceedings of the IEEE International Conference on Robotics and Automation, ICRA'99', pp. 670-675.
- C4.** Kragic, D. & Christensen, H. (1999), Integration of visual cues for active tracking of an end-effector, in 'Proceedings of the IEEE/RSJ International Conference on Intelligent Robots and Systems, IROS'99', Vol. 1, pp. 362-368.
- C5.** Kragic, D. & Christensen, H. (2000), Tracking techniques for visual servoing tasks, in 'Proceedings of the IEEE International Conference on Robotics and Automation, ICRA'00', Vol. 2, pp. 1663-1669.

- C6.** Petersson, L., Austin, D., Kragic, D. & Christensen, H. (2000), Towards an intelligent robot system, in *'Proceedings of the Intelligent Autonomous Systems 6, IAS-6'*, Venice, pp. 704–709.
- C7.** Kragic, D. & Christensen, H. (2000), A framework for visual servoing tasks, in *Proceedings of the Intelligent Autonomous Systems 6, IAS-6*, Venice, pp. 835–842.
- C8.** Petersson, L., Austin, D. & Kragic, D. (2000), High-level control of a mobile manipulator for door opening, in *'Proceedings of the IEEE/RSJ International Conference on Intelligent Robots and Systems, IROS'00'*. Vol 3, pp. 2333-2338, 2000.
- C9.** Christensen, H., Kragic, D. & Sandberg, F. (2000), Vision for Interaction, in *G. Hager, H. Christensen, H. Bunke, & R. Klein, eds., 'Sensor based intelligent robots', Lecture notes in Computer Science (LNCS 2238 - Springer) and International Workshop Dagstuhl Castle, Germany.*, pp. 51-73, October, 2000.
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