

## PERSONAL INFORMATION

## Geert De Cubber



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Sex Male | Date of birth 13/02/1979 | Nationality Belgian

## WORK EXPERIENCE

2016-present

**Project Coordinator, EU-H2020 Project SafeShore (<http://www.safeshore.eu>)**

Royal Military Academy, Brussels, Belgium

- Responsible for project management and scientific coordination of a project with a budget of 5M€
- Responsible for the organization of a multi-system large-scale RPAS border infringement exercise to validate the detection system developed in the SafeShore project
- Contributor to the elaboration of user and system requirements for RPAS detection tools
- Contributor to the development of visual RPAS detection tools using machine learning
- Contributor to the dissemination and exploitation of project results

**Business or sector** Border Security/ Unmanned aerial vehicles

2012 - 2016

**Project Coordinator, EU-FP7 Project ICARUS ( <http://www.fp7-icarus.eu/> )**

Royal Military Academy, Brussels, Belgium

- Responsible for project management and scientific coordination of a project with a budget of 17.5M€
- Responsible for the technical coordination of the 125 people working on the project
- Responsible for the organization of a simulated large-scale intervention with search and rescue teams equipped with unmanned tools after an earthquake
- Contributor to the elaboration of user and system requirements for unmanned search and rescue tools
- Contributor to the development of novel unmanned ground vehicles and their visual perception systems
- Contributor to the development of novel collaboration and interoperability strategies for unmanned ground and air vehicles
- Contributor to the dissemination and exploitation of project results

**Business or sector** Crisis and disaster management / Unmanned ground and aerial vehicles

2007 - present

**Researcher**

Royal Military Academy, Brussels, Belgium

- Development and application of novel computer vision techniques for mobile robots
- Development of 3D world perception and understanding techniques for robotic applications
- Development of terrain traversability estimation methodologies
- Development of humanitarian demining and search and rescue robots

**Business or sector** Defence

2003 – 2007

**Assistant**

Vrije Universiteit Brussel, Brussels, Belgium

- Main research focus on 3D reconstruction of outdoor areas using monocular vision. Also research on tele-presence, target tracking, illumination invariance and colour constancy, kalman filtering, soft computing
- Tutor for the practical sessions to the Electronics course at the VUB-department of Electronics and Informatics
- Tutor for the course on bus systems at the VUB-department of Electronics and Informatics

Business or sector University

2001 - 2007

**Researcher**

Vrije Universiteit Brussel , Brussels, Belgium

- Main research focus on 3D reconstruction of outdoor areas using monocular vision.
- Research on tele-presence, target tracking, illumination invariance and colour constancy, kalman filtering, soft computing

Business or sector University

EDUCATION AND TRAINING

2010

**PhD. in Engineering**

Vrije Universiteit Brussel and the Royal Military Academy (Belgium)

- PhD. thesis title: Variational methods for dense depth reconstruction from monocular and binocular video sequences

2001

**Master in Engineering**

Vrije Universiteit Brussel (Belgium)

- Master thesis title: Integration of Sensors on a Mobile Robot

PERSONAL SKILLS

Mother tongue(s) Dutch

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
French	C1	C1	B2	B2	B2
Selor Certificate Article 12.					
English	C2	C2	C2	C2	C2
Romanian	B1	B1	B1	B1	A1
German	B1	B1	A2	A1	A1

Levels: A1/2: Basic user - B1/2: Independent user - C1/2 Proficient user  
Common European Framework of Reference for Languages

Communication skills

- Good scientific communication skills gained through the oral presentation of research results at multiple conferences
- Good communication skills towards the general public gained through my experiences in the dissemination of the Icarus project results towards the public and end-users

## Organisational / managerial skills

- Good leadership and team-leading skills acquired as responsible for a project team of 125 people
- Good organizational and time-management skills gained as end-responsible for the timely delivery of 54 project deliverables
- Good understanding of accounting practices and financial administration for EU-research projects gained as responsible for the financial reporting of the Icarus project (17.5M€).
- Good event organization skills gained through the organization of multiple international conferences and workshops, e.g. acting as the local host of the Remotely Piloted Aircraft Systems Conferences (<http://rpas-2014.org>) which are organized twice a year. This is an international conference focusing on RPAS regulatory issues, operational matters, current & future applications, current bottlenecks, technical and performance requirements of RPAS for civil & military RPAS, system & sub-system developments, military & aerial work customer requirements, novel operations, experience & lessons learned.
- Good networking skills as proven through the elaboration and coordination of a project of 24 partners with complementary capabilities.

## Computer skills

- Good command of office tools (word processor, spread sheet, presentation software)
- Good command of programming tools (Matlab, Visual Studio, C++, C#)
- Knowledge on web development as responsible for the management of the research group website (<http://mecatron.rma.ac.be/>)

## Flying license

- Certified RPAS operator for the MD4-1000 Unmanned Aerial Vehicle.

## Driving licence

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## TEACHING ACTIVITIES

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Academic Supervision	2014 - present	<i>Ichraf Lahouli</i> , "On-board image processing for abnormal event detection by UAS", in co-promotorship with the University of Tunis
	2012 - present	<i>Haris Balta</i> , "Terrain mapping by collaborative ground and aerial vehicles for search and rescue and demining applications", in co-promotorship with the Università degli Studi di Napoli Federico II
Courses	2013	<i>3D Computer Vision</i> , Guest Course for Masters at the Académie Militaire Tunisie
	2012	<i>EU Robotics initiatives</i> , IEEE Robotics and Automation Society (IEEE-RAS) Safety, Security and Rescue Robotics (SSRR) Summer School
	2011	<i>Robotics</i> , Guest Course for Masters at the Académie Militaire Tunisie
	2010	<i>Vision Lab</i> , IEEE-RAS/IFRR School of Robotics Science on Social and Cognitive Robotics, Iasi, Romania, July 2010
	2010	<i>Computer Vision</i> , Guest Course for Masters at the Académie Militaire Tunisie
	2005 - 2007	<i>Bus Systems</i> , Electronics and Informatics Department, Vrije Universiteit Brussel
	2003 – 2007	<i>Electronics practical sessions</i> , Electronics and Informatics Department, Vrije Universiteit Brussel
Master Thesis Supervision	Supervision of over 40 master thesis students from all over Europe, in the framework of Erasmus and bilateral agreements	

## PROJECTS

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As coordinator	2016 - present	Project "SafeShore" on the development of a detection system for maritime threat agents for border security, supported by the European Commission under the H2020 Programme
	2012 - 2016	Large-scale Integrating Project "ICARUS" on the development of unmanned search and rescue tools (air, ground, marine), supported by the European Commission under the 7th Framework Programme
As Participant	2012 - 2015	Large-scale Integrating Project "TIRAMISU" on the development of a toolkit for humanitarian demining, supported by the European Commission under the 7th Framework Programme
	2007 – 2011	<i>MOBINISS</i> , Mobile intelligent information sensor systems on unmanned ground/aerial/sea vehicles, supported by the Belgian Ministry of Defense
	2007 – 2010	<i>View-Finder</i> , Robotics assistance to fire-fighting services and development of an intelligent crisis management information system, supported by the European Commission under the 6th Framework Programme
	2002 – 2003	<i>ClearFast</i> , <i>Concept for Low-risk Efficient Area Reduction based on the Fusion of Advanced Sensor Technologies</i> , supported by the European Commission under the 5th Framework Programme
	2001 - 2006	<i>IAP-AMS</i> , <i>Advanced Mechatronic Systems</i> , supported by the Belgian Science Policy under the Interuniversity Attraction Pole Programme

## MEMBERSHIPS

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- NATO IST-149/RTG-071 Capability Concept Demonstrator for Interoperability within Unmanned Systems and C2
- NATO-IST-107 Topic Group working on Standards for Promoting Interoperability for Coalition Unmanned Vehicles
- Belgian Unmanned Aerial Systems Association (BeUAS)
- euRobotics Education and Training Board
- Integrated Mission Group for Security, Topic Area 6 – CBRNE
- Unmanned Vehicle Systems International

REVIEWING SERVICE

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## Scientific Journals

Reviewer for the following international journals:

- Advanced Robotic Systems
- Automation in Construction
- Bulletin of the Institute of Mathematical Machines
- Computer Vision and Image Understanding
- Electrical Engineering and Computer Science
- IET Computer Vision
- Industrial Robot
- Journal of Field Robotics
- Künstliche Intelligenz
- Multimedia Tools and Applications
- Robotica
- Robotics and Automation Magazine
- Robotics and Autonomous Systems
- Sensors
- Transactions on Automation Science and Engineering
- Transactions on Image Processing

## Scientific Conferences

Reviewer for the following international conferences:

- Humanitarian Demining Workshop
- Human-Friendly Robotics
- Human-Machine Systems, Cyborgs and Enhancing Devices
- ICRA
- ICVS
- Imaging Systems and Techniques
- Intelligent Autonomous Unmanned Search and Rescue Tools
- IROS
- Joint Conference on Artificial Intelligence
- Remote Engineering and Virtual Instrumentation
- Robotics and Automation for Humanitarian Applications
- Robotics for Risky Interventions and Environmental Surveillance-Maintenance
- Robots and Sensors integration in future rescue INFORMATION system
- Safety, Security, and Rescue Robots
- Towards Autonomous Robotic Systems

## Expertise / Project Reviewing

Reviewer for projects proposed for funding to the following funding institutes:

- European Commission – H2020
- European Defence Agency (EDA)
- INNOVIRIS, Brussels Institute for research and innovation
- Kuwait Foundation for the Advancement of Sciences (KFAS)
- Natural Sciences and Engineering Research Council of Canada (NSERC)

## HONOURS AND AWARDS

Invited lectures	<p>2016 Invited Lecturer, "Rescue robotics: from theory to practice", IROS Rescue Robot Workshop, Seoul, South-Korea</p> <p>2016 Invited Lecturer, "Collaboration between Space Assets and Drones for Crisis Mapping", European Space Expo, Brussels, Belgium</p> <p>2016 Invited Lecturer "The SafeShore system for the detection of threat agents for maritime border security", ASTRID Days, Sint-Truiden, Belgium</p> <p>2016 Invited Lecturer, "Qualitative and quantitative validation methodologies for evaluating the SafeShore maritime border security system", FRONTEX workshop on methodologies/methods, procedures, best practices on investigating/testing/evaluating border security technologies, Warsaw, Poland</p> <p>2015 Invited Lecturer, "Drones for Security Applications", Infopol, Kortrijk, Belgium,</p> <p>2015 Invited Lecturer, "Drones Save Human Lives", DroneApps, Geneva, Switzerland</p> <p>2015 Invited Lecturer, "Drones Redden Mensenlevens", Drone Convention, Genk, Belgium</p> <p>2015 Invited Lecturer, "The EU ICARUS Project", INSARAG Global Meeting, Abu Dhabi, United Arab Emirates</p> <p>2015 Invited Lecturer, "ICARUS: Providing robotic tools for crisis management", EU Civil Protection Forum, Brussels, Belgium</p> <p>2015 Invited Lecturer "Integrating Robots in Disaster Management", UN World Forum on Disaster Risk Reduction, Sendai, Japan</p> <p>2014 Invited Lecturer, "Unmanned Tools for Search and Rescue", INSARAG Team Leaders Meeting, Doha, Qatar</p> <p>2014 Invited Lecturer, "<i>ICARUS search and rescue UAVs and their operational deployment during the Balkan floods</i>", The Commercial UAV Show, London, UK</p> <p>2014 Invited Lecturer, "<i>Armed and non-armed drones - How to explain the difference to the public?</i>", RHID Colloquium on Armed drones, Brussels, Belgium</p> <p>2014 Invited Lecturer, "<i>ICARUS RPAS and their operational use in Bosnia</i>", RPAS2014, Brussels, Belgium</p> <p>2013 Invited Lecturer, "<i>Unmanned Tools for Search and Rescue</i>", International Search and Rescue Advisory Group Team Leaders Meeting, Den Haag, The Netherlands</p> <p>2012 Invited Lecturer, "<i>EU Robotics initiatives</i>", IEEE Robotics and Automation Society (IEEE-RAS) Safety, Security and Rescue Robotics (SSRR) Summer School, Alanya, Turkey</p> <p>2012 Invited Lecturer, "<i>Unmanned Vehicles for Humanitarian Demining and Search and Rescue</i>", Military Robotics 2012, London, UK</p> <p>2011 Invited Lecturer, "<i>Organizing and Funding Research</i>", Young Researchers Conference, Bucharest, Romania</p>
Awards	<p>2002 BARCO award for master thesis "Integration of Sensors on a Mobile Robot"</p>

## PUBLICATIONS

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**Metrics** h-index: 13 (winter 2017, Google Scholar: <https://scholar.google.be/citations?user=wYXEEZ0AAAAJ>)  
 Number of publications: 78  
 Number of citations: 490

**Monographs**

1. G. De Cubber, "Variational methods for dense depth reconstruction from monocular and binocular video sequences," PhD Thesis, VUB-Press, 2010.

**Edited Books**

1. G. De Cubber (Ed), "Search and Rescue Robotics: From Theory to Practice", DOI: 10.5772/intechopen.68449, 262 pages, Publisher: InTech,, Available from: <https://www.intechopen.com/books/search-and-rescue-robotics-from-theory-to-practice/introduction-to-the-use-of-robotic-tools-for-search-and-rescue>, August 23, 2017

**Book Chapters**

1. Geert De Cubber, Daniela Doroftei, Konrad Rudin, Karsten Berns, Anibal Matos, Daniel Serrano, Jose Sanchez, Shashank Govindaraj, Janusz Bedkowski, Rui Roda, Eduardo Silva, Stephane Ourevitch, "Introduction to the use of robotic tools for search and rescue", in "Search and Rescue Robotics: From Theory to Practice", InTech, DOI: 10.5772/intechopen.69489, August 23, 2017
2. Daniela Doroftei, Geert De Cubber, Rene Wagemans, Anibal Matos, Eduardo Silva, Victor Lobo, Keshav Chintamani, Shashank Govindaraj, Jeremi Gancet, Daniel Serrano, "User-centered design", in "Search and Rescue Robotics: From Theory to Practice", InTech, DOI: 10.5772/intechopen.69483, August 23, 2017
3. Karsten Berns, Atabak Nezhadfar, Massimo Tosa, Haris Balta, Geert De Cubber, "Unmanned Ground Robots for Rescue Tasks", in "Search and Rescue Robotics: From Theory to Practice", InTech, DOI: 10.5772/intechopen.69491, August 23, 2017
4. Daniel Serrano, German Moreno, Jose Cordero, Jose Sanchez, Shashank Govindaraj, Mario Monteiro Marques, Victor Lobo, Stefano Fioravanti, Alberto Grati, Konrad Rudin, Massimo Tosa, Anibal Matos, Janusz Bedkowski, Geert De Cubber, "Interoperability in a heterogeneous team of search and rescue robots", in "Search and Rescue Robotics: From Theory to Practice", InTech, DOI: 10.5772/intechopen.69493, August 23, 2017
5. Geert De Cubber, Daniela Doroftei, Haris Balta, Anibal Matos, Eduardo Silva, Daniel Serrano, Shashank Govindaraj, Rui Roda, Victor Lobo, Rene Wagemans, "Operational Validation of Search and Rescue Robots ", in "Search and Rescue Robotics: From Theory to Practice", InTech, DOI: 10.5772/intechopen.69497, August 23, 2017
6. Yvan Baudoin, Daniela Doroftei, Geert de Cubber, Jean - Claude Habumuremyi, Haris Balta and Ioan Doroftei. "Unmanned Ground and Aerial Robots Supporting Mine Action Activities", Mine Action - The Research Experience of the Royal Military Academy of Belgium, InTech, DOI: 10.5772/65783. August 30, 2017
7. G. De Cubber and D. Doroftei, "Using robots in hazardous environments: Landmine detection, de-mining and other applications," UK: Woodhead Publishing Company, 2010.

## Journal Papers

1. I. Lahouli, R. Haelterman, J. Degroote, M. Shimoni, G. De Cubber, R. Attia, Accelerating Existing Non-Blind Image Deblurring Techniques through a Strap-On Limited-Memory Switched Broyden Method, *IEICE Transactions on Information and Systems*, May 01, 2018
2. I. Lahouli; E. Karakasis; R. Haelterman; Z. Chtourou; G. De Cubber; A. Gasteratos; R. Attia, 'Hot spot method for pedestrian detection using saliency maps, discrete Chebyshev moments and support vector machine', *IET Image Processing*, 2018
3. M. Buric, G. De Cubber, "Counter Remotely Piloted Aircraft Systems", *MTA Review*, Vol 27 (1), September 2017
4. H. Balta, J. Bedkowski, S. Govindaraj, K. Majek, P. Musialik, D. Serrano, K. Alexis, R. Siegart, G. De Cubber, "Integrated Data Management for A Fleet of Search and Rescue Robots", *Journal of Field Robotics*, June 2016
5. G. De Cubber, "Search and Rescue Robots", *Belgisch Militair Tijdschrift*, vol. 10, 2016
6. G. De Cubber and H. Sahli, "Augmented Lagrangian-based approach for dense three-dimensional structure and motion estimation from binocular image sequences," *IET Computer Vision*, p. 12, 2013.
7. J. Bedkowski, A. Maslowski, and G. De Cubber, "Real time 3D localization and mapping for USAR robotic application," *Industrial Robot*, vol. 39, iss. 5, 2012.
8. G. De Cubber and H. Sahli, "Partial differential equation-based dense 3D structure and motion estimation from monocular image sequences," *Computer Vision, IET*, vol. 6, iss. 3, pp. 174-185, 2012.
9. G. De Cubber, S. A. Berrabah, D. Doroftei, Y. Baudoin, and H. Sahli, "Combining Dense structure from Motion and Visual SLAM in a Behavior-based Robot Control Architecture," *International journal of Advanced Robotics Systems*, vol. 7, iss. 1, 2010.
10. D. Doroftei, E. Colon, and G. De Cubber, "A behaviour-based control and software architecture for the visually guided Robudem outdoor mobile robot," *Journal of Automation, Mobile Robotics & Intelligent Systems*, vol. 2, iss. 4, pp. 19-24, 2008.
11. G. De Cubber, "Dense 3D structure and motion estimation as an aid for robot navigation," *Journal of Automation, Mobile Robotics & Intelligent Systems*, vol. 2, iss. 4, pp. 14-18, 2008.
12. G. De Cubber, S. A. Berrabah, and H. Sahli, "Colour-Based Visual Servoing Under Varying Illumination Conditions," *Robotics and Autonomous Systems*, vol. 47, iss. 4, pp. 225-249, 2004.
13. V. Enescu, G. De Cubber, H. Sahli, E. Demeester, D. Vanhooydonck, and M. Nuttin, "Active stereo vision-based mobile robot navigation for person tracking," *Integrated Computer-Aided Engineering*, vol. 13, iss. 3, pp. 203-222, 2006.



## Conference Papers

1. I. Lahouli; R. Haelterman; G. De Cubber; Z. Chtourou; R. Attia, "A fast and robust approach for human detection in thermal imagery for surveillance using UAVs", 15th Multi-Conference on Systems, Signals and Devices, Hammamet-Tunisia, March 2018
2. I. Lahouli, R. Haelterman, Z. Chtourou, G. De Cubber, R. Attia, Pedestrian Detection and Tracking in Thermal Images from Aerial MPEG Videos, 13th International Conference on Computer Vision, Imaging and Computer Graphics Theory and Applications (VISIGRAPP), Funchal, Madeira, Portugal, January 2018
3. A. Coluccia, M. Ghenescu, T. Piatrik, G. De Cubber, A. Schumann, L. Sommer, J. Klätte, T. Schuchert, J. Beyerer, M. Farhadi, R. Amandi, C. Aker, S. Kalkan, M. Saqib, N. Sharma, S. Daud K. Makkah, M. Blumenstein, "Drone-vs-bird detection challenge at IEEE AVSS2017", International Conference on Advanced Video and Signal based Surveillance (AVSS), Lecce, Italy, August-September 2017
4. G. De Cubber, R. Shalom, A. Coluccia, O. Borcan, R. Chamrád, T. Radulescu, E. Izquierdo, Z. Gagov, "The SafeShore system for the detection of threat agents in a maritime border environment", IARP Workshop on Risky Interventions and Environmental Surveillance, Les Bons Villers, Belgium, May 2017
5. M. M. Marques, R. Parreira, V. Lobo, A. Martins, A. Matos, N. Cruz, J. M. Almeida, J. C. Alves, E. Silva, J. Będkowski, K. Majek, M. Pelka, P. Musialik, H. Ferreira, A. Dias, B. Ferreira, G. Amaral, A. Figueiredo, R. Almeida, F. Silva, D. Serrano, G. Moreno, G. De Cubber, H. Balta, H. Beglerović, S. Govindaraj, J. M. Sanchez, M. Tosa, "Use of multi-domain robots in search and rescue operations – Contributions of the ICARUS team to the euRathlon 2015 challenge", IEEE OCEANS 2016, Shanghai, China, 2016
6. O. De Meyst, T. Goethals, H. Balta, G. De Cubber, R. Haelterman, "Autonomous guidance for a UAS along a staircase", International Symposium on Visual Computing, pp. 466-475, Las Vegas, USA, December 2015
7. D. Doroftei, A. Matos, E. Silva, V. Lobo, R. Wagemans, and G. De Cubber, "Operational validation of robots for risky environments" in Proc. 8th IARP Workshop on Robotics for Risky Environments, January 2015
8. D. Serrano, P. Chrobocinski, G. De Cubber, D. Moore, G. Leventakis, and S. Govindaraj, "ICARUS and DARIUS approaches towards interoperability" in Proc. 8th IARP Workshop on Robotics for Risky Environments, January 2015
9. H. Balta, G. De Cubber, Y. Baudoin, and D. Doroftei, "UAS deployment and data processing during the Balkans flooding with the support to Mine Action" in Proc. 8th IARP Workshop on Robotics for Risky Environments, January 2015
10. G. De Cubber and H. Balta, "Terrain Traversability Analysis using full-scale 3D Processing" in Proc. 8th IARP Workshop on Robotics for Risky Environments, January 2015
11. G. De Cubber, H. Balta, D. Doroftei, Y. Baudoin, "UAS deployment and data processing during the Balkans flooding", 12th IEEE International Symposium on Safety, Security, and Rescue Robotics (SSRR 2014), Toyako-cho, Hokkaido, Japan, October 2014
12. G. De Cubber, H. Balta, and C. Lietart, "Teodor: A semi-autonomous search and rescue and demining robot," in Proc. Advanced Concepts on Mechanical Engineering (ACME), 2014
13. D. Doroftei, A. Matos, and G. De Cubber, "Designing Search and Rescue Robots towards Realistic User Requirements," in Proc. Advanced Concepts on Mechanical Engineering (ACME), 2014.
14. S. Govindaraj, K. Chintamani, J. Gancet, P. Letier, B. Van Lierde, Y. Nevatia, G. De Cubber, D. Serrano, J. Bedkowski, C. Armbrust, J. Sanchez, A. Coelho, M. Esbri Palomares, and I. Orbe, "The ICARUS Project - Command, Control and Intelligence (C2I)," in Proc. IEEE International Symposium on Safety, Security, and Rescue Robotics, 2013.
15. G. De Cubber, "Remotely Piloted Aircraft Systems - The Global Perspective - Yearbook 2013/2014," Blyenburgh & co, 2013, vol. 11, pp. 133-134.
16. H. Balta, G. De Cubber, and D. Doroftei, "Increasing Situational Awareness through Outdoor Robot Terrain Traversability Analysis based on Time- Of-Flight Camera," Spring School on Developmental Robotics and Cognitive Bootstrapping, 2013.
17. J. Bedkowski, K. Majek, I. Ostrowski, P. Musialik, A. Maslowski, A. Adamek, A. Coelho, and G. De Cubber, "Methodology of Training and Support for Urban Search and Rescue With Robots," in Proc. Ninth International Conference on Autonomic and Autonomous Systems (ICAS), Lisbon, Portugal, 2013, pp. 77-82.

18. H. Balta, G. De Cubber, and D. Doroftei, "Increasing Situational Awareness through Outdoor Robot Terrain Traversability Analysis based on Time- Of-Flight Camera," Spring School on Developmental Robotics and Cognitive Bootstrapping, 2013.
19. Y. Baudoin and G. De Cubber, "TIRAMISU-ICARUS: FP7-Projects Challenges for Robotics Systems," in Proc. 7th IARP International Workshop on Robotics for Risky Environment - Extreme Robotics, 2013,
20. G. De Cubber, "ICARUS Consortium - Providing Unmanned Search and Rescue Tools", Remotely Piloted Aircraft Systems - The Global Perspective ed., ser. Yearbook 2013/2014, Blyenburgh & co, 2013, vol. 11, pp. 133-134.
21. H. Balta, S. Rossi, S. Iengo, B. Siciliano, A. Finzi, and G. De Cubber, "Adaptive behavior-based control for robot navigation: A multi-robot case study," in Proc. XXIV International Symposium on Information, Communication and Automation Technologies (ICAT), 2013, pp. 1-7.
22. J. Bedkowski, K. Majek, I. Ostrowski, P. Musialik, A. Maslowski, A. Adamek, A. Coelho, and G. De Cubber, "Methodology of Training and Support for Urban Search and Rescue With Robots," in Proc. Ninth International Conference on Autonomic and Autonomous Systems (ICAS), Lisbon, Portugal, 2013, pp. 77-82
23. G. De Cubber, D. Doroftei, D. Serrano, K. Chintamani, R. Sabino, and S. Ourevitch, "The EU-ICARUS project: developing assistive robotic tools for search and rescue operations," in Proc. IEEE International Symposium on Safety, Security, and Rescue Robotics, 2013
24. H. Balta, G. De Cubber, D. Doroftei, Y. Baudoin, and H. Sahli, "Terrain Traversability Analysis for off-road robots using Time-Of-Flight 3D Sensing," in Proc. 7th IARP International Workshop on Robotics for Risky Environment - Extreme Robotics, 2013
25. G. De Cubber, D. Doroftei, Y. Baudoin, D. Serrano, K. Berns, C. Armbrust, K. Chintamani, R. Sabino, S. Ourevitch, and T. Flemma, "Search and Rescue robots developed by the European ICARUS project," in Proc. 7th IARP International Workshop on Robotics for Risky Environment - Extreme Robotics, 2013,
26. G. De Cubber, D. Doroftei, Y. Baudoin, D. Serrano, K. Chintamani, R. Sabino, and S. Ourevitch, "Operational RPAS scenarios envisaged for search & rescue by the EU FP7 ICARUS project," in Proc. Remotely Piloted Aircraft Systems for Civil Operations (RPAS2012), 2012.
27. D. Doroftei, G. De Cubber, and K. Chintamani, "Towards collaborative human and robotic rescue workers," in Proc. 5th International Workshop on Human-Friendly Robotics (HFR2012), 2012.
28. G. De Cubber, D. Doroftei, Y. Baudoin, D. Serrano, K. Chintamani, R. Sabino, and S. Ourevitch, "ICARUS: An EU-FP7 project Providing Unmanned Search and Rescue Tools," in Proc. IROS2012 Workshop on Robots and Sensors integration in future rescue Information system (ROSIN'12), 2012.
29. A. Conduraru, I. Conduraru, E. Puscalau, G. De Cubber, D. Doroftei, and H. Balta, "Development of an autonomous rough-terrain robot," in Proc. IROS2012 Workshop on Robotics for Environmental Monitoring (WREM), 2012.
30. G. De Cubber, D. Doroftei, Y. Baudoin, D. Serrano, K. Chintamani, R. Sabino, and S. Ourevitch, "ICARUS: Providing Unmanned Search and Rescue Tools," in Proc. 6th IARP Workshop on Risky Interventions and Environmental Surveillance (RISE), 2012.
31. Y. Yvinec, Y. Baudoin, G. De Cubber, M. Armada, L. Marques, J.-M. Desaulniers, M. Bajic, E. Cepolina, and M. Zoppi, "TIRAMISU : FP7-Project for an integrated toolbox in Humanitarian Demining, focus on UGV, UAV and technical survey," in Proc. 6th IARP Workshop on Risky Interventions and Environmental Surveillance (RISE), 2012.
32. Y. Yvinec, Y. Baudoin, G. De Cubber, M. Armada, L. Marques, J.-M. Desaulniers, and M. Bajic, "TIRAMISU : FP7-Project for an integrated toolbox in Humanitarian Demining," in Proc. GICHD Technology Workshop, 2012.
33. J. Bedkowski, G. De Cubber, and A. Maslowski, "6DSLAM with GPGPU computation," in Proc. Automation 2012, Warsaw, Poland, 2012.
34. G. De Cubber, D. Doroftei, K. Verbiest, and S. A. Berrabah, "Autonomous camp surveillance with the ROBUDEM robot: challenges and results," in Proc. IARP Workshop RISE'2011, 2011.
35. G. De Cubber and D. Doroftei, "Multimodal terrain analysis for an all-terrain crisis Management Robot," in Proc. IARP HUDEM 2011, 2011.
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