Gheorghe Lisca

Audi-Konfuzius-Institut Ingolstadt Technischen Hochschule Ingolstadt Esplanade 10	Email: Phone:	liscagheorghe@gmail.com $+49\ 176\ 35863048$
85049 Ingolstadt	Homepage:	https://www.linkedin.com/in/gheorghelisca/
Employment		
Researcher, PhD Candidate Machine Learning for Human Avatar Reconstruct Audi-Konfuzius-Institut Ingolstadt, Ingolstadt, G	tion in Virtua ermany	l Reality Sep 2019 - present
Program Member AI and Machine Learning for Robots in Chemical Entrepreneur First, Berlin, Germany	l Industry and	l Industrial Plant Maintenance Apr 2019 - Jun 2019
Head of Software and Robotics AI, Machine Learning, High- and Low-level Contr navel robotics GmbH, Munich, Germany	rol (complete	software stack) for a new Social Robot Aug 2018 - Mar 2019
Senior Research and Development E AI and High- and Low-level Robot Control for So Neuland Software GmbH, Augsburg, Germany	ngineer ocial Robots	May 2018 - Jul 2018
Senior Research and Development E AI, Robot Control and web development for Socia Di-Unternehmer GmbH, Hamburg, Germany	ngineer (fr al Robots	reelancer) Dec 2017 - Apr 2018
Chief Executive Officer and Chief Te AI, Machine Learning, Robot Control and web de Blackout Technologies UG, Bremen, Germany	echnology evelopment fo	Officer r Social Robots Nov 2016 - Nov 2017
PhD Candidate AI and High-level Robot Control for Autonomous University of Bremen, Bremen, Germany	s Mobile Rob	ots Sep 2012 - Jun 2017
PhD Candidate AI and High-level Robot Control for Autonomous Technical University of Munich, Munich, German	s Mobile Robo y	Dec 2011 - Aug 2012
Scientific Researcher AI, Computer Vision and Robot Control Technical University of Cluj-Napoca, Cluj, Roma	nia	Oct 2008 - Nov 2011

Education

PhD Candidate

Artificial Intelligence and High-level Robot Control for Autonomous Mobile RobotsUniversity of Bremen, Bremen, GermanySep 2012 - Jun 2017Advisor: Prof. Michael Beetz, PhD (University of Bremen)

PhD Candidate

Artificial Intelligence and High-level Robot Control for Autonomous Mobile RobotsTechnical University of Munich, Munich, GermanyDec 2011 - Aug 2012Advisor: Prof. Michael Beetz, PhD (University of Bremen)

Master of Science (M.Sc.)

Artificial Intelligence and Computer Vision Technical University of Cluj-Napoca, Romania Advisor: Prof. Dr. Sergiu Nedevschi (Technical University of Cluj-Napoca, Cluj, Romania)

Bachelor of Science (B.Sc.)

Automation and Computer Science Technical University of Cluj-Napoca, Romania Advisor: Prof. Dr. Sergiu Nedevschi (Technical University of Cluj-Napoca, Cluj, Romania)

Teaching Experience

Teaching Assistant	
University of Bremen, Bremen, Germany	WS2012 - WS2017
Student Individual and Group Project Supervisor University of Bremen, Bremen, Germany	WS2013 - WS2017
Student Bachelor and Master Theses Supervisor University of Bremen, Bremen, Germany	WS2013 - SS2016
Google Summer of Code Mentor University of Bremen, Bremen, Germany	SS2015, SS2016
Teaching Assistant Technical University of Cluj-Napoca, Cluj, Romania	WS2010 - SS2011
Psycho-Pedagogical Training Technical University of Cluj-Napoca, Cluj, Romania	WS2008, SS2009

Awards

Entrepreneur First Grant Research the feasibility of AI and Robotics in Chemical Industry and Industrial Maintenance.	Apr 2019
Everyday Activity Science and Engineering, German SFB Grant Strongly contributed to the demonstrator of project's defense and proposal's writing.	Jun 2017
Exhibition booth at Pioneers Festival Pioneer in building blueprint personalities for social robots.	May 2017
Exhibition booth within IBM's stand at CeBIT Pioneer in developing social robots for dementia patients.	Mar 2017
1st place IBM Outthink Health care Hackathon Prototype of social robot powered by IBM Watson for assisting an Alzheimer patients.	Sep 2016
PR2 Workshop on ICRA Sushi manipulation challenge Hacked a prototype control software for picking up plates from a rotating table at Uni Freiburg.	May 2012
Accomplishments	
Pizza Demonstrator Lead the integration of RoboHow EU Project's final demonstrator assessed as <i>EXCELLENT</i> .	Sep 2016
Chemlab Demonstrator Lead the integration of ACat EU Project's final demonstrator assessed as <i>VERY GOOD</i> .	Apr 2016
Human-aware Robot Control Demonstrator Implemented part of SAPHARI EU Project's final demonstrator assessed as <i>EXCELLENT</i> .	Dec 2015
Popcorn Demonstrator A demonstrator which made it into a very popular German documentary <i>Elbe von oben</i> .	Jun 2012
Publications	

Theses

Master of Science, Gheorghe Lisca. Robot localization and environment mapping using a probabilistic motion model and an occupancy grid.

Bachelor of Science, **Gheorghe Lisca**. Calibration and cross calibration of a perception system composed by a multi layer laser scanner and a stereo camera.

Proceedings

- 1. Gheorghe Lisca, Daniel Nyga, Ferenc Bálint-Benczédi, Hagen Langer, Michael Beetz. Towards Robots Conducting Chemical Experiments., International Conference on Intelligent Robots and Systems (IROS), 2015, Hamburg, Germany.
- 2. Gheorghe Lisca, Pangyu Jeong, Sergiu Nedevschi. Automatic one step extrinsic calibration of a multi layer laser scanner relative to a stereo camera. ICCP 2010, Cluj-Napoca, Romania.

Invited Presentations

EXPLAINED at Microsoft Berlin

Cognitive APIs enabling Social robots in health care.	Nov 2017
Bremen goes digital	N 0017
Snowcase the usage of social robots in health care.	Nov 2017
Ocean Sampling Day	
Live demonstration of PR2 robot performing few steps of DNA extraction procedure.	Nov 2014

Interantional Research Projects

REFILLS - team member

Research robotic systems for store shelves monitoring and refilling and in-store logistics.

SHERPA - team member

Research a team of robotic systems ground and aerial to support search and rescue activities in hostile or hazardous environments.

RoboHow - team member

Research knowledge-enabled and plan-based control for robots performing everyday activities by following instructions from World Wide Web and from human demonstrations.

ACat - team member

Research the modeling of abstract, functional knowledge about relations between actions and objects and speedup the programming of the robot which must perform them.

SAPHARY - team member

Research techniques which enable robots to track, understand and predict human motions in a weakly structured dynamic environment in real-time.

INTERSAFE-2 - team member

Jun 2008 - May 2011 Research an intersection safety system able to reduce the number of accidents at intersections by developing a risk assessment system warning and intervention functions for vehicles.

Program Committee Member

The AAAI-14 Workshop on Artificial Intelligence and Robotics Quebéc, Canada Jul 2014

Nov 2014

Jan 2017 - Dec 2020

Jan 2017 - Dec 2020

Feb 2012 - May 2016

Mar 2013 - Apr 2016

Nov 2011 - Oct 2015