CURRICULUM VITAE

SUMMARY

David Abbink is a scientist from the Netherlands, currently employed by Delft University of Technology. His research interests include haptics, neuromuscular behavior, system identification, human factors, automation, robotics. He heads the Delft Haptics Lab: www.delfthapticslab.nl

PERSONALIA

Name:	**David ABBINK**
Date of birth:	September 19th 1977
Business Address:	Mekelweg 2 2628 CD Delft, Netherlands
Tel. number:	+31 6 14278525
E-mail:	d.a.abbink@tudelft.nl
Nationality:	Dutch

A. EDUCATION

May 2002 – May 2006: **PhD in Mechanical Engineering (0.8 fte)**
Delft University of Technology
Dec 2006: Thesis defense of *"Neuromuscular Analysis of Haptic Gas Pedal Feedback"*

- Awarded best Dutch PhD thesis 2006 (€500) in the area of movement sciences (VvBN).
- Ideas developed in this thesis contributed to the successful market release of a haptic gas pedal by Nissan, called DCA.
- PhD project was part of a large multidisciplinary project funded by Nissan, combining the efforts in Delft with those of Nissan engineers and scientists of several USA universities. Six workshops across the world were held to report to Nissan and exchange ideas.

Mar – May 2004: Certification for completing the 3-month course on "*Cognitive Systems Engineering",* given by Prof. Dr. J.M. Flach, Wright State University, Ohio, USA

Sept 1995 – Mar 2002 **MSc in Mechanical Engineering**
Delft University of Technology

2002: *"The role of reflexes in human motion control"*

- Final grade: 9/10
- Self-defined research project
- Nominated for best Dutch MSc thesis 2002 in the area of control engineering (KIVI)

2000: 3 month research internship with Prof R. Kirsch at Case Western Reserve University, Ohio, USA

- Topic: Functional Electrical Stimulation of patients with spinal cord injury

1998: 1 month internship at Figee BV, Haarlem, The Netherlands

- Assisting crane construction, welding

1996: Received propaedeuse in 1 year (average grade 8/10)

Sept 1999 – Aug 2000 **Philosophy**
University of Amsterdam (UvA), The Netherlands

Sept 1989 – July 1995 **High School (Atheneum)**
College Hageveld, in Heemstede, The Netherlands

- Average grade 8/10

B. POSITIONS HELD

2014 (1 month)

Invited Visiting Associate Professor (0.8fte)
University of Valenciennes, France
- Invited to set up research collaboration on haptic shared control for automotive
- Fully funded stay

2009 – current

Assistant Professor (0.8 fte)
Delft University of Technology
- From 2009 – 2012 a 'Tenure Track' position, since january 2012 a tenured position
- Fully funded through personally acquired projects from the Dutch state (VENI grant) and international industry (Nissan, Boeing)

June 2006 – Dec 2008

Post Doctoral Research Fellow (0.8 fte)
Delft University of Technology
- Fully funded through personally acquired projects from international industry (Nissan, Boeing)
- Received travel grant from the faculty to visit leading scientists in the field of human-machine interaction (at MIT, Stanford, Johns Hopkins University, Tokyo University, NASA, Nissan) in feb-apr 2008

1997 – present

Drummer (see section: Musical Career)

C. ACQUIRED RESEARCH PROJECTS AND FUNDING

Submitted 2014

H2020 Proposal MoveForward
Multi-modal HMI for wheel chairs
11 partners from UK, Germany, France, Spain, Belgium and the Netherlands

Sept 2012 – April 2015:

Nissan Projects
Description: Three confidential two year-long project for Nissan Motor Company, Ltd. (Japan)
Responsibilities
- Writer of proposal, together with Mark Mulder
- Project execution (writing of scientific reports, presenting results to Nissan engineers and senior directors in Japan)
- Project supervision

Funding: €200.000,-

Sept 2011 – 2016:

H-Haptics: "*Human-centered haptic shared control for tele-operation".*
Website www.h-haptics.nl
Description: Large research program of seven projects, each having 2-3 PhDs. Funded by the STW Perspectief Program, including a strong contribution (€1 million) from Dutch industry.
Responsibilities
- Co-writer of proposal (success rate 4/68)
- Main contributor to scientific content (it broadly extends ideas of my VENI grant to different application domains)

- Main program organizer for all seven projects (workshops, meetings, websites & media)
- PI of three of the seven projects
  - Supervision of 4 PhDs and 2 postdocs

Funding: €4.700.000,-

Jan 2010 – Oct 2013 **VENI Grant 10650** "Sharing Control: Feeling is Believing"

Description: Personal research grant awarded to the top 10% of Dutch researchers, with the goal of stimulating fundamental and innovative research.

Responsibilities
- Writer of proposal (success rate 11/130)
- Principal investigator
- Report twice per year to a user committee from industry and academia

Funding: €250.000,-

May 2006 – 2013 **Nissan Projects**
Description: A series of seven confidential year-long projects for Nissan Motor Company, Ltd. (Japan)
Responsibilities
- Writer of proposals, together with Mark Mulder
- Project execution (experiments, writing of scientific reports, presenting results to Nissan engineers and senior directors in Japan)
- Project supervision

Funding: over €550.000,-

2007 – 2010 **Boeing Project –** "Test Plan for the identification of Neuromuscular Pilot Models during a Balked Landing Maneuver"
Description: first phase of a 3-phased project for the Boeing Company (USA) to provide experimental data for an extended pilot model that includes neuromuscular behavior.
Responsibilities
- Writer of proposals
- Project execution and supervision

Funding: $119.000,-

May 2006 – July 2006 **Boeing Project –** "Model Study"
Description: a short project to show the theoretical result of reflexive contribution to a pilot model.
Responsibilities
- Writer of proposal
- Project supervision of a research engineer

Funding: $20.000,-

ADVISOR

2010 – 2012 **DRIVOBS Project**
With DUT, and several European companies
- Assisted with proposal writing
- Participated in meetings and brainstorms

Funded by HTAS

2011 – 2013 **Remote Robotics**
Dutch collaboration programme with TU Eindhoven and TU Twente
- Supervised 1 PhD

D. SUPERVISION

Postdocs

2014 – 2017	Name:	Tricia Gibo, PhD
	Previously at	Stanford University, Johns Hopkins University
	Topic:	"Haptic Shared Control for driving"
	Funding:	H-Haptics Project
	Output:	1 CP (+1 JP in preparation)

Engineers

2012 – *2013*	Name:	Mauro della Penna, MSc
	Topic:	"Adaptive Haptic Shared Control for driving"
	Industry:	Entropy Control (USA); Nissan (Japan)
	Output:	1 CP (+1 JP in preparation)

PhD candidates as co-promotor (1 graduated, 5 in progress)

(most recent on top; **funding for all PhD candidates was personally acquired**)

2013 – *exp 2016*	Name:	Jeroen van Oosterhout, MSc
	Topic:	"Shared Control for multi-operator control"
	Funding:	FOM Netherlands: GOT - project
	Industry:	ITER-NL; FOM; HIT
	Academia:	TU Eindhoven (Prof. Marco de Baar)
	Output:	1 JP in review and 3 CP
2012 – *exp 2016*	Name:	Roel Kuiper, MSc
	Topic:	"Haptic Shared Control for Deep-Sea Operation"
	Funding:	H-Haptics Grant, Project 7
	Industry:	co-funded by SeaTools BV
	Output:	0 JP (1 in preparation) and 1 CP (+2 in preparation)
2011 – *exp 2015*	Name:	Jeroen Wildenbeest, MSc
	Topic:	"Shared Control for remote maintenance"
	Funding:	H-Haptics Grant, Project 2
	Industry:	HIT; Tree-C
	Academia:	TU Eindhoven (Prof. Maarten Steinbuch)
	Output:	1 JP (+1 JP in preparation) and 3 CP
2011 – *exp 2015*	Name:	Henri Boessenkool, MSc
	Topic:	"Shared Control for remote maintenance"
	Funding:	FOM Netherlands: GOT - project
	Industry:	ITER-NL; FOM; HIT
	Academia:	TU Eindhoven (Prof. Maarten Steinbuch)
	Output:	1 JP (+1 JP in preparation) and 3 CP
2011 – *exp 2015*	Name:	Jack Schorsch, MSc
	Topic:	"Haptic Shared Control for Lifting Aid"
	Funding:	Remote Robotics; H-Haptics Grant, Project 5
	Industry:	Siza Dorp, Hankamp Gears
	Output:	1 JP (+2 JP in preparation) and 1 CP
2010 – March '14	Name:	Joost Venrooij, MSc **[Graduated cum laude]**
	Topic:	"Biodynamic Feedthrough"
	Funding:	Special Talent grant (1 year), Max Planck Institute Tuebingen (2 years), Nissan profits;
	Academia:	Max Planck Institute, Tuebingen, Germany Prof. M. Mulder, Aerospace Engineering, TU Delft
	Output:	6 JP (+2 submitted, +1 in preparation) and 8 CP

PhD candidates as informal advisor (3 graduated, 1 guest, 3 in progress)

2012 - …	Bram Onneweer	Mechanical Engineering, TU Delft
2012 - ….	Teun Hoevenaars	Mechanical Engineering, TU Delft
2011 – …	Mona Hichert	Mechanical Engineering, TU Delft
2008 – 2012	Diomidis Katzourakis	Mechanical Engineering, TU Delft
2007 – 2012	Pablo Estevez	Mechanical Engineering, TU Delft
2007 - 2011	Winfred Mugge	Mechanical Engineering, TU Delft
2010 – 2011	Hiroki Nakamura (exchange)	University of Tokyo, Japan

MSc advisor (25 Graduated, 8 in progress)

In Progress (7)

Exp Grad 2014	*Nienke van Driel*
Exp Grad 2014	*Marjon Voskuil (collaboration with Moog)*
Exp Grad 2014	*Lionel Lee (collaboration with Moog)*
Exp Grad 2014	*Lotte Grootveld*
Exp Grad 2014	*Lloyd Wajon (Aerospace)*
Exp Grad 2014	*Kang Wang*
Exp Grad 2014	*Daan v/d Wiel (Aerospace)*

Graduated (25, of which 9 cum laude)

2014	Vid Stiglic (Industrial Design)
2014	Rolf Boink (Aerospace)
2014	Bastiaan Petermeijer (cum laude)
2013	Vincent Honing
2013	Jeroen Tettero (collaboration with DAF)
2013	Rick van der Vliet (exchange student from Erasmus Neuroscience)
2012	Luca Profumo (exchange student from Pisa) (cum laude)
2012	Jeroen van Oosterhout
2012	Arnold de Jonge
2012	Roel Kuiper (double MSc degree)
2012	Atli Sverisson
2011	Diane Cleij
2011	Stephan de Nijs
2011	Tom Verspecht (cum laude)
2011	Henri Boessenkool (cum laude)
2010	Jeroen Wildenbeest
2010	Cas Droogendijk
2010	Mark van der Steen
2009	Mauro della Penna (cum laude)
	• ***led to a successful patent filing***
2009	Kakin Tsoi (cum laude)
	• ***won €500 Spyker Award for best Automotive Thesis 2009***
2009	Joost Venrooij (cum laude)
2009	Ken Verbist
2008	Marijke Mulder
2008	Joost Lasschuit (cum laude)
2006	Winfred Mugge (cum laude)

(also participated as external advisor in 7 MSc graduation committees, and co-supervisor of 4 other MSc students at Aerospace Engineering)

BSc ADVISOR

2013-2014	Honours Track Project (2 students) – **€4,000 award for this project**
2009	Bachelor Project (4 student) on Collaborative Cruise Control
2007	Sandra Koster (BSc graduation project)
2004-2006	7 Bachelor Projects (4 students each)

E. TEACHING

2014	Received the Award for the Best MSc Teacher 2013-2014 of BioMechanical Engineering Department, chosen by the students

2013	Received the Award for the **Best Teacher 2013 of the Faculty** of Mechanical, Material and Maritime Engineering, TU Delft. Movie: http://youtu.be/ZHs8Bju3eXg **Finalist for best Teacher 2013 of the TU Delft**. (1000 euro personal, 3000 euro to improve education)

2013	Received the Award for the Best MSc Teacher 2012-2013 of BioMechanical Engineering Department, chosen by the students

2012	Received the Award for the Best MSc Teacher 2011-2012 of BioMechanical Engineering Department, chosen by the students

2011	Received the Award for the Best MSc Teacher 2010-2011 of BioMechanical Engineering Department, chosen by the students

2009 Selected as Visiting Lecturer at University of Tokyo in Japan
- taught an intensive 2-weeks course on Human-Machine Interaction for selected Japanese students
- received travel and accomodation grant

WB2306 The Human Controller: *A 14x2 hours MSc class on designing human-machine interaction based upon understanding of human perception, cognition and action.*
2009 – present Responsible Teacher (80 students per year)
- organizing content, restructuring curriculum
- added three practical assignment to old curriculum
- teaching classes, preparing and grading full exams

Haptic System Design: *An MSc class where students define their own small research Project, perform experiments and analysis, give progress presentations and write a 4-page paper.*
2006 – present Co-Responsible Teacher (50 students per year)
- organizing content, restructuring curriculum
- giving feedback on research, presentations and papers

Man-Machine Systems
2011 - present Guest lecture on Haptic Shared Control
Intelligent Automotive Systems
2008 – present Guest lectures, preparing and grading assignments, preparing and grading questions for the final exam
Human Motion Control
2004 – 2006 Guest lectures, preparing and grading assignments, preparing and grading questions for the final exam
System Identification and Parameterization
2006 – 2007 preparing and grading questions for the final exam

Private teaching and tutoring
1995 – 2002 Private tutor in Mathematics, Physics, Latin (7 students)
1995 – 2002 Private drumming teacher (10 students)

Educational Committees
2013 – 2014 Member of the 3mE Education Committee, to help improve education in the BSc and MSc courses of the faculty
2014 – current Member of the 3mE MSc Education Committee, to help improve education in the MSc courses of the faculty

Given Trainings, Workshops and Instructions

2013	Mentor for PhDs in Graduate School
2009-2012	"How to write a VENI grant" (yearly training)
2011-2012	Introduction class to BioMechanical Engineering
2010	Instruction on drumming and neuroscience, LUMC - Leiden
2004	Mentor for first year students (weekly meetings)

F. RESEARCH COLLABORATION

For academia this means: publishing, teaching classes, performing experiments, supervising/exchanging students, hosting workshops. For industry this means: publishing, funding, participating in user committees, consultancy

At Delft University of Technology

Prof. dr.ir. Max Mulder	AeroSpace Engineering
Dr.ir. M.M. van Paassen	AeroSpace Engineering
Dr.ir. Mark Mulder	BioMechanical Engineering, TU Delft
Dr.ir. Joost de Winter	BioMechanical Engineering, TU Delft
Dr.ir. A.C. Schouten	BioMechanical Engineering, TU Delft
Dr.ir. H. Damveld	BioMechanical Engineering, TU Delft
Dr.ir. M. Wisse	BioMechanical Engineering, TU Delft

National Collaboration

Prof. dr.ir. Maarten Steinbuch	Technical University Eindhoven
Dr.ir. Marco de Baar	Technical University Eindhoven, FOM
Hans Arendzen	LUMC
Carel Meskers	LUMC
Peter van der Geest	NLR
Piet Lammertse	Moog
Jan Frumeau	SeaTools
Cock Heemskerk	HIT

International

Prof. Inagaki	Tsukuba University (Japan)
Ass Prof. Itoh	Tsukuba University (Japan)
Prof. Suzuki	Tsukuba University (Japan)
Prof. Yokokohji	Kobe University, Kobe (Japan)
Prof. Suda	University of Tokyo (Japan)
Prof. Wada	Ritsumeikan University (Japan)
Prof. Jules DeWald	Northwestern University, Chicago (USA)
Prof. Allison Okamura	Stanford University (USA)
Prof. Marcia O'Malley	Rice University (USA)
Ass Prof. Lorenzo Pollini	University of Pisa (Italy)
Ass Prof. Chouki Sentouh	University of Valenciennes (France)
Ass Prof. Franck Mars	University of Nantes (France)
Ass Prof. Tom Carlson, PhD	London College (UK)
Prof. José del R. Millán	EPFL (Switzerland)
Prof. Heinrich Bülthoff	Max Planck Institute (Germany)
Prof. Angelika Peer	Bristol University (UK)
Emmanuel van der Poorten, PhD	Leuven University (Belgium)
Frank Flemisch	DLR (Germany), Frauenhofer Institute
Tomohiro Yamamura	Nissan Motor Company (Japan)
Tsunehara	Nissan Motor Company (Japan)
Jerry Robinson	Boeing Company (USA)
Erwin Boer	Entropy Control (USA)
Ken Goodrich	NASA Langley (USA)

G. SERVICE TO SCIENTIFIC COMMUNITY

G1. ORGANISATION OF EVENTS/WORKSHOPS/SPECIAL SESSIONS

2014 10 IEEE SMC Conference (San Diego, USA)
- Organisation of a special session on shared control (11 papers)

2014 05 H-Haptics Mini-symposium
- Two-day symposium for 16 PhDs & 3 Postdocs to present their work

2013 11 The 2nd H-Haptics Autumn School
- Organisation of a 5-day scientific programme for 16 PhD students and 3 postdocs; highly interactive

2013 10 IEEE SMC Conference (Manchester, UK)
- Organisation of a special session on shared control (5 papers)
- Organisation of a highly interactive workshop (23 attendees)

2013 06 Dutch-Belgian Haptics Meeting (Leuven, Belgium)
- Organisation Committee & Demo Award Committee

2013 05 H-Haptics Mini-symposium
- One-day symposium for 16 PhDs & 3 Postdocs to present their work

2013 04 IEEE World Haptics Conference (Korea)
- Organisation of a half-day workshop on shared control together with Angelika Peer, Cathagay Basdogan, and invited international speakers (Etienne Burdet, Sylvain Calinon, Marcia O'Malley)

2012 11 The 1st H-Haptics Autumn School
- Organisation of a 4-day scientific programme in Delft
- Invited key-note speaker Angelika Peer (TU München)

2012 10 IEEE SMC Conference (Seoul, Korea)
- Organisation of a special session on shared control
- Organisation of a workshop on evaluating shared control with prestigious panel members
  - Prof. Heinrich Bülthoff (keynote speaker SMC 2012)
  - Prof. Jose del Milan (keynote speaker SMC 2011)
  - Prof. Erwin Boer
- So well attended and successful that we were invited to form a Technical Committee on Shared Control

2012 06 H-Haptics Mini-symposium
- One-day symposium for 16 PhDs & 3 Postdocs to present their work

2012 03 European Robotics Forum - Denmark
- Co-organisation of a workshop on shared control

2011 10 IEEE SMC Conference – Alaska (USA)
- Organisation of a special session on shared control, hosting 7 papers, one of which nominated for best conference paper

2011 09 Robotics Seminar – Delft (Netherlands)
- Invited Erwin Boer from Entropy Control for a 1-hour lecture about automation and haptics

2011 09 Kick-off meeting for H-Haptics – Delft (Netherlands)
- Organisation of a 1 day kick-off meeting, with presentations from researchers from 5 universities and 10 companies, and demonstrations about haptic shared control

2011 01 Brainstorm session with Entropy Control, La Jolla (USA)
- New projects for Nissan

2010 07 EuroHaptics Conference, Amsterdam (The Netherlands)
- Organized and presented 3-hour workshop on Neuromuscular Identification and Haptics (50 attendees)
- Demonstration of Haptic Gas Pedal for Car Following

2004 Nissan Workshop at Delft
- Organisation of a two-day scientific and social program for over 40 international scientists and Nissan engineers

David Abbink has also organized lab visits in Delft for visitors from academia as well as industry (Nissan, Boeing, NASA, NLR, DLR, and many more).

G2. RECENT INVITED TALKS, PRESENTATIONS & PANEL SESSIONS

2014 09 23 IEEE/IFAC Workshop on H-CPS-I (Paris, France)
- Invited tutorial on shared control

2014 05 08 High-Tech Systems (Den Bosch, Netherlands)
- Invited lecture on human-automation interaction

2014 04 07 NVvL Lecture (Amsterdam, Netherlands)
- Invited lecture on haptic shared control for aviation

2014 03 07 Empowerment Informatics Symposium (Tokyo, Japan)
- Invited panel member

2013 10 23 Boskalis Creative Session – Futureland (The Netherlands)
- Invited speaker on shared control

2013 10 17 De Waag – Amsterdam (The Netherlands)
- Panel member for "The future of human-robot interaction"

2013 10 IEEE SMC Conference – Manchester (UK)
- Speaker at Tutorial about Shared Control

2013 05 ENP Conference – Lunteren (The Netherlands)
- Invited speaker: haptics and human motion control

2013 04 IEEE World Haptics Conference (Daejeon, South Korea)
- Speaker at Tutorial about Shared Control

2013 03 Nissan Research Centre – Atsugi (Japan)
- Research meeting on human modeling

2011 06 IEEE World Haptics Conference – Istanbul (Turkey)
- Invited speaker at Tutorial about Haptic Shared Control

2011 06 Max Planck Institute – Tuebingen (Germany)
- Invited speaker about Haptic Shared Control

2011 03 Dutch – Belgian Haptics Workshop – Leuven (Belgium)
- Invited speaker about Haptic Shared Control

2011 03 Europe-Japan Technology Exchange – Leuven (Belgium)
- **Keynote speaker** on Haptic Shared Control

2011 02 Kobe University – Kobe (Japan)
- Invited presentation for Yokokohji Lab

Nissan Research Centre – Atsugi (Japan)
- Invited presentation on Haptic Shared Control & automation

Tsukuba University – Tsukuba (Japan)
- Invited presentation on Haptic Shared Control

2012 10 IEEE SMC Conference – Seoul (South Korea)
- Speaker at Tutorial about Shared Control

2012 09 VU Brussel - Leuven (Belgium)
- Invited presentation on neuromuscular identification

2012 05 Verotech Symposium on Automotive - Leuven (Belgium)
- Invited presentation on driver support systems

2012 04 one of 30 Dutch scientists to be personally invited by NWO to apply for a talk at TEDx – Binnenhof 2012

2012 03 Nissan Research Centre – Atsugi (Japan)
- Research meeting on driver support systems

2010 09 NeuroSIPE Summerschool, Delft (The Netherlands)
- Invited presentation on Neuromuscular Identification

2010 09 IFAC Special Session on Shared Control
- Invited presentation
- Panel Member in discussion

2010 05 NeuRobotics Meeting, Twente (The Netherlands)
- Invited presentation

Selected Conferences Presentations (last five years)

2014 10 IEEE SMC Conference – San Diego (USA)
2014 07 AHFE Conference – Krakow (Poland)
2013 10 IEEE SMC Conference – Manchester (UK)
2012 10 IEEE SMC Conference – Seoul (South Korea)
2011 09 IEEE SMC Conference – Alaska (USA)
2010 10 IEEE SMC Conference – Istanbul (Turkey)
2010 08 IFAC Conference – Valenciennes (France)
2009 09 AIAA Conference – Chicago (USA)
2008 06 IEEE Intelligent Vehicles Symposium – Eindhoven (The Netherlands)
2007 06 IEEE ICORR – Egmond aan Zee (The Netherlands)
2007 03 IEEE World Haptics Conference – Tsukuba (Japan)

Since 2010, David has been session chair at all these conferences, and many others.

G3. EDITORIAL DUTIES, PROGRAM COMMITTEES & MEMBERSHIPS

Journals

2012 01-12 **Associate Editor** for IEEE Transactions on Systems, Man and Cybernetics, Part A (one of the leading journals in my field)
2013 – current **Associate Editor** for IEEE Transactions on Human-Machine Systems

Conferences

2012 EuroHaptics Conference, Tampere (Finland)
- Associate Editor
- Program Committee

2011 IEEE SMC Conference, Alaska (USA)
- Program Committee

2010 EuroHaptics Conference, Amsterdam (The Netherlands)
- Associate Editor
- Program Committee

Memberships

- IEEE member since 2012
- IEEE SMC member since 2012
- IEEE SMC Technical Committee on Intelligent Vehicles since 2011 (invited)
- IEEE SMC Technical Committee on Shared Control (chair)
  http://go.epfl.ch/shared_control_tc

G4. REVIEWING

Journals

IEEE Transactions on Human Machine Systems
IEEE Transactions on SMC A, IEEE Transactions on SMC B
IEEE Transactions on Haptics
IEEE Transactions on Intelligent Transportation Systems
International Journal of Robotics Research
International Journal of Human-Computer Studies
Mechatronics

Conferences

IEEE SMC Conference
IEEE World Haptics Conference, IEEE Haptics Symposium, EuroHaptics Conference
IEEE Intelligent Vehicles Symposium
IEEE ICRA

IFAC – HMS

Funding Proposals
OTP - STW Dutch Research Funding Foundation
FEW Belgian Research Funding Foundation
IWT Belgian Research Funding Foundation

H. MEDIA ATTENTION

Exhibitions

2011 – current	**Science Centre** (Dutch museum) shows 'Smart Steer', a permanent interactive exhibition of a Haptic Steering Wheel that David Abbink and Mark Mulder developed to assist drivers in curve negotiation http://www.sciencecentre.tudelft.nl/kijken-en-doen/evenementen/davids-technotest-in-zo-zit-dat/
2011 – current	**Science Centre** (Dutch museum) permanently exhibits a 6-minute interview with David Abbink, shown as a multi-media 6-screen movie. The exhibit portrays five researchers of TU Delft. http://www.sciencecentre.tudelft.nl

Written Press

2014 05	**Volkskrant** (main dutch newspaper) – two separate interviews on driving and autonomous cars
2012 11	**Quest** (Dutch monthly technical magazine for adults) interview and photoshoot about VENI project on haptic shared control
2011 – 2012	**Zo Zit Dat** (Dutch monthly technical magazine for children aged 6-11) Associate editor & leading character in **'David's Techno-Test'**, a year-long photo-comic on science, that aims to explain inventions of Delft University of Technology to young children http://www.zozitdat.nl/2011/04/13/davids-testlab-making-off-filmpje/
2011 05	**DELTA** (weekly magazine of Delft University of Technology) http://issuu.com/tudelta/docs/delta43-17
2007	**Telegraaf** (on Haptic Gas Pedal)
2007	**Parool** (on Haptic Gas Pedal)
2007	Several regional Papers (on Haptic Gas Pedal)
2006	**De Ingenieur**, Dutch National Magazine
2006	**Leonardo**, Dutch Aerospace Magazine

TV and Radio

2011	**IKON / Rathenau**	Dutch National Radio Interview
2009	**Discovery Channel**	filmed, not aired yet
2007	**TV West "Nieuws"**	Dutch regional TV showcase
2007	**Radio 1** –	Dutch National Radio interview
2006	**Teleac: Hoe?Zo!** -	Dutch National Radio Interview
2006	**RTL 5** "Delft Blauw"	Dutch National TV showcase
2005	**Teleac: Hoe?Zo!**	Dutch National Radio Interview

OTHER POINTS OF INTEREST

LANGUAGES:	Dutch	(native)
	English	(fluent, C2 - highest proficiency)
	Spanish, French, German	(intermediate)
	Hungarian	(beginner)

I. MUSICAL CAREER

Throughout his scientific career, David has been involved with a musical career as well. Drumming in bands of different musical styles since he was 17, David has developed himself as an officially endorsed drummer (by Tama drums) with over 400 shows under his belt. He has performed live in South America, Europe and Japan, from small bars to summer festivals in front of crowds of up to 30,000 people. He recorded four full-length studio albums, four EPs and appeared in nine video clips, some of which were aired on MTV. His main musical efforts since 2006 have been with Cultura Tres, a Venezuelan band hailed as a global discovery and praised by underground press and leading magazines worldwide.

2006 – 2014 **Cultura Tres**
Rock/sludge band based in Venezuela
www.culturatres.com

Musical Activities: live performance, composing, recording, writing lyrics

- David is an officially endorsed artist by Tama http://www.tamadrum.co.jp/artist/tama_artist.php?artist_id=731&area=2
- Released three albums, that received unanimous praise from international press

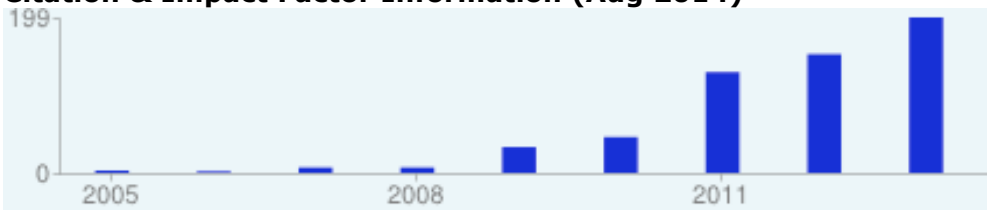
Other activities: booking shows, promotion, recording video clips

- Contributed to booking tours through Europe, South America and Japan
- Successfully helped to promote the band to be recognized as the leading bands in the genre in South America, and as one of the most promising world-wide.
- Performed interviews for magazines, webzines, radio's and television shows in different countries

2014 09	release video clip 'La selva se muere'
2013 05	release video clip 'Es mi sangre'
2013 05	**release 'Rezando al Miedo' – CD, 3nd album**
2012 10	release video clip 'El Sur de la Fe'
2012 01	release video clip 'Purified'
2011 03	release video clip 'Propiedad de Dios'
2011 03	**release 'El Mal del Bien' – vinyl, 2nd album**
2010 11	release video clip 'My Word'
2010 06	release video clip 'Crosses and Lines'
2009 11	release video clip 'And then i woke up…'
2009 01	release video clip 'Libertad'
2008 10	**release 'La Cura' – CD, debut album**

J. SCIENTIFIC PUBLICATIONS

Citation & Impact Factor Information (Aug 2014)



Google Scholar
Normal: H-index: 15 ; Citations: 666
I10-index: 28;

Scopus
Normal: H-index: 11 ; Citations: 317
No self-citation: H-index: 9 ; Citations: 191

Journals Published in	**IF (2010)**	**H-index (2011)**
Field of Human-Machine Interaction		
IEEE Trans. on Systems, Man and Cybernetics-A (1996)	3.1	54
IEEE Trans. on Systems, Man and Cybernetics-B (1996)	4.5	78
IEEE Trans. on Haptics (2008)	3.1	10
ASME J. of Comp and Information Science in Eng. (2003)	0.9	19
Human Factors (1962)	2.1	49
Cognition, Technology & Work (2005)	1.0	16
Ergonomics (1961)	1.5	52
Field of Automotive Engineering		
IEEE Trans. on Instrumentation and Measurement (1969)	1.6	50
IEEE Trans. Intell. Transp. Syst (2000)	3.8	45
Field of NeuroScience		
Experimental brain research (1966)	2.3	101

Journal Papers (23 published/in press, 2 in review, 4 in preparation)

Partly written, still in preparation (4)

Abbink D.A., Mulder M., de Winter JCF, Boer ER., Amanravan, F., Carlson T. (in preparation) – Sharing concepts of Shared Control. *To be submitted to IEEE Transactions on HMS, Aug 2014 (joint review paper of Technical Committee on Shared Control)*

De Jonge A., Wildenbeest J., Boessenkool H., **Abbink D.A.** (in preparation). The Effect of Online Adaptation on Conflicts in Haptic Shared Control for Free-Air Teleoperation Tasks. *To be submitted to IEEE Transactions on Haptics*,

Boessenkool H., Wildenbeest J, **Abbink D.A.** (in preparation). Analyzing Fundamental Remote Maintenance Tasks in 6 DOF: A three-phased approach to quantify operator task performance. To be submitted to IEEE Transactions on Human-Machine Systems.

Kuiper R., Heck D., Kuling I., Roesthuis R., **Abbink D.A.** (in preparation). Haptic Guidance Improves Nonholonomic Steering due to Added Information of Kinematics and Suggested Path. To be submitted to IEEE Transactions on Human-Machine Systems.

In review (2)

J. van Oosterhout, J.G.W. Wildenbeest, H. Boessenkool, C.J.M. Heemskerk, M.R. de Baar, F.C.T van der Helm, and **D.A. Abbink** (major revisions) – Haptic Shared Control in Tele-manipulation: Effectsof Inaccurate Support on Task Execution. Submitted to IEEE Transactions on Haptics

Petermeijer S., **Abbink D.A.,** de Winter, J. (in review) "Should drivers be operating within an automation-free bandwidth? Evaluating haptic steering support systems with different levels of authority". Submitted to 2014 Human Factors Prize.

2014 (5)

Schorsch JF, Keemink AQL, Stienen AHA, van der Helm FCT, **Abbink D.A.** (*in press*). A novel self-aligning mechanism to decouple force and torques for a planar exoskeleton joint. Mech. Sco, 5, 1-7, 2014

Boessenkool, H; Thomas, J; Heemskerk, CJM; de Baar, MR; Steinbuch, M; **Abbink, DA**; Task analysis of human-in-the-loop tele-operated maintenance: What can be learned from JET? *Fusion Engineering and Design*

Katzourakis D., **Abbink D.A.**, Velenis E., Holweg E, Happee R (2014). Driver's Arms Time Variant Neuromuscular Admittance During Real-Car Test-Track Driving. *IEEE Instrumentation and Measurement, Volume 63, Issue 1*

Venrooij J., van Paassen M.M, Mulder M, **Abbink D.A.**, van der Helm F.C.T., H.H. Bulthoff. (2014). A Framework for Biodynamic Feedthrough Analysis-Part I: Theoretical Foundations.. *IEEE Transactions on Systems, Man and Cybernetics-Part B*

Venrooij J., van Paassen M.M, Mulder M, **Abbink D.A**., van der Helm F.C.T., H.H. Bulthoff. (in press). A Framework for Biodynamic Feedthrough Analysis - Part II: Validation and Application. IEEE Transactions on Systems, Man and Cybernetics-Part B

2013 (5)

Boessenkool, H., **Abbink, D. A.**, Heemskerk, C. J. M., & van der Helm, F. C. T., Wildenbeest, J.G.W. (2012). A task-specific analysis of the benefit of haptic shared control during tele-manipulation. *IEEE Transactions on Haptics*, *(available online 2012, published jan 2013)*.

Mugge W., **Abbink D.A.**, Schouten A.C., van der Helm F.C.T., Arendzen J.H., Meskers C.G.M. (2013). Force control in the absence of visual and tactile feedback. *Experimental Brain Research*

Venrooij J., **Abbink D.A.**, Mulder M., van Paassen M.M. (in press). A biodynamic feedthrough model based on neuromuscular principles. *IEEE Transactions on Systems, Man and Cybernetics-Part B*

J Venrooij, M Mulder, **DA Abbink**, MM van Paassen, FCT van Helm, HH Bulthoff. Mathematical Biodynamic Feedthrough Model Applied to Rotorcraft. IEEE SMC B

Wildenbeest, J.G.W., **Abbink, D. A.**, Heemskerk, C. J. M., & van der Helm, F. C. T., Boessenkool, H. (2012). The impact of Haptic Feedback Quality on the Performance of Teleoperated Assembly Tasks. *IEEE Transactions on Haptics*, *(available online 2012, published 2013)*.

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Mulder, M., **Abbink, D. A.**, & Boer, E. R. (2012). Sharing Control with Haptics – Seamless Driver Support from Manual to Automatic Control. *Human Factors*, *Vol. 54, No.5, pp786-798*

Venrooij, J., Mulder, M., **Abbink, D. A.,** van Paassen, M. M., & Buelthoff, H. (2012). A new view on Biodynamic Feedthrough Analysis: Unifying the Effects on Forces and Positions. *IEEE Transactions on Systems, Man and Cybernetics-Part B,* vol. 43, no. 1, pp. 129–142

Abbink, D. A., Mulder, M., & Boer, E. R. (2012). Haptic shared control: smoothly shifting control authority? *Cognition, Technology & Work*, 1-17. doi:10.1007/s10111-011-0192-5
(invited paper for a special issue on haptic shared control for automotive applications**)**
(one of the top-five cited papers of CTW since journal's inception: 2011-2012)

2011 (5)

Abbink, D. A., Mulder, M., van Der Helm, F. C. T., Mulder, M., & Boer, E. R. (2011). Measuring Neuromuscular Control Dynamics During Car Following With Continuous Haptic Feedback. *IEEE Transactions on Systems, Man and Cybernetics, Part B*, *41*(5), 1239-1249.

Katzourakis, D., **Abbink, D. A.**, Happee, R., & Holweg, E. (2011). Steering Force Feedback for Human–Machine-Interface Automotive Experiments. *IEEE Transactions on Instrumentation and Measurement*, *60*(1), 32-43. doi:10.1109/TIM.2010.2065550

Katzourakis, D., Velenis, E., **Abbink, D. A.,** Happee, R., & Holweg, E. (2011). Race-Car Instrumentation for Driving Behavior Studies. *IEEE Transactions On Instrumentation And Measurement*, -available online-.

Mulder, Mark, **Abbink, D. A.**, van Paassen, M. M., & Mulder, M. (2011). Design of a Haptic Gas Pedal for Active Car-Following Support. *IEEE Trans. Intell. Transp. Syst*, *12*(1), 268-279.

Venrooij, J., **Abbink, D. A.,** Mulder, M., van Paassen, M. M., & Mulder, M. (2011). A Method to Measure the Relationship Between Biodynamic Feedthrough and Neuromuscular Admittance. *IEEE Transactions on Systems, Man and Cybernetics-Part B: Systems and Humans*, *41*(4), 1158-1169. doi:10.1109/TSMCB.2011.2112347

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Abbink, D. A.* & Mugge, W.*, Schouten, A. C., Dewald, J. P. A., & van Der Helm, F. C. T. (2010). A rigorous model of reflex function indicates that position and force feedback are flexibly tuned to position and force tasks. *Experimental brain research.*, *200*(3-4), 325-40. doi:10.1007/s00221-009-1985-0 (*=shared first authorship)

Mulder, Mark, Pauwelussen, J., van Paassen, M. M., Mulder, M., & **Abbink, D. A.** (2010). Active Deceleration Support in Car Following. *IEEE Transactions on Systems, Man, and Cybernetics - Part A: Systems and Humans*, *40*(6), 1271-1284.

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Abbink, D. A., & Mulder, M. (2009). Exploring the Dimensions of Haptic Feedback Support in Manual Control. *Journal of Computing and Information Science in Engineering, Special Issue on Haptics*, *9*(1), 011006. doi:10.1115/1.3072902 **– basis for 2008 joint Patent with Nissan**

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de Winter, J. C. F., Mulder, M., van Paassen, M. M., **Abbink, D. A.**, & Wieringa, P. A. (2008). A two-dimensional weighting function for a driver assistance system. *IEEE Transactions on Systems, Man, and Cybernetics. Part B, Cybernetics*, *38*(1), 189-95. doi:10.1109/TSMCB.2007.908860

Mulder, Mark, Mulder, M., van Paassen, M. M., & **Abbink, D. A.** (2008). Haptic gas pedal feedback. *Ergonomics*, *51*(11), 1710-20. doi:10.1080/00140130802331583

Book Chapters (1) & Thesis (1)

Abbink, D. A., & Mulder, M. (2010). Neuromuscular Analysis as a Guideline in designing Shared Control. *Advances in Haptics* (Vol. 109, pp. 499-516). doi:10.1017/S0031182005009157

Abbink, D. A. (2006). *Neuromuscular analysis of haptic gas pedal feedback during car following. (PhD thesis), Delft University of Technology.*
(Awarded best Dutch PhD Thesis in the area of Movements Sciences)

Patents (2)

2010

Nederlandse Octrooiaanvrage Nr. N2004849
Title: "Method of Steering a Vehicle and Such a Vehicle"
Applicants & Inventors: VAN PAASSEN, René; DELLA PENNA, Mauro; **ABBINK, David**; MULDER, Mark
Based on: Della Penna et al (2010)

2008

Patent Number(s): WO2010038317-A1
Title: "System provided with an assistance-controller for assisting an operator of the system, control-operation assisting device, control-operation assisting method, driving-operation assisting device, and driving-operation assisting method."
Applicants & Inventors: MULDER, Mark; **ABBINK, David**; VAN PAASSEN, René; MULDER, Max; VAN DER HELM, Frans; BOER, Erwin; TAKADA, Yuji

Based on: Abbink & Mulder (2009) "Exploring the Dimensions of Haptic Feedback Support in Manual Control"

Peer Reviewed Conference Publications (43)

2014 (1 + 6 accepted)

6 conference papers accepted for IEEE SMC 2014 conference

H Boessenkool, **DA Abbink**, CJM Heemskerk, M Steinbuch, MR de Baar, JGW. Analysis of human-in-the-loop tele-operated maintenance inspection tasks using VR. *Fusion Engineering and Design*

2013 (7)

H Boessenkool, **DA Abbink**, CJM Heemskerk, M Steinbuch, MR de Baar, JGW. Analysis of human-in-the-loop tele-operated maintenance inspection tasks using VR. *Fusion Engineering and Design*

J. Smisek, M. M. Van Paassen, M. Mulder, and **D. A. Abbink**, "Neuromuscular Analysis based Tuning of Haptic Shared control for UAV Collision Avoidance," in *IEEE SMC Conference Proceedings*, 2013.

L. Profumo, L. Pollini, **D.A. Abbink** (2013), "Direct and indirect haptic aiding for curve negotiation", in IEEE SMC Conference Proceedings, 2013

RJ Kuiper, JCL Frumau, FCT Van Der Helm, **DA Abbink** (2013) "Haptic Support for Bi-Manual Control of a Suspended Grab for Deep-Sea Excavation", IEEE System Man and Cybernetic (SMC) conference (2013).

J van Oosterhout, **DA Abbink**, JF Koning, H Boessenkool, JGW Wildenbeest, CJM. Haptic shared control improves hot cell remote handling despite controller inaccuracies. *Fusion Engineering and Design*

JGW Wildenbeest, **DA Abbink**, JF Schorsch. Haptic transparency increases the generalizability of motor learning during telemanipulation. *World Haptics Conference (WHC), 2013, 707-712*

JGW Wildenbeest, **DA Abbink**, H Boessenkool, CJM Heemskerk, JF Koning. How operator admittance affects the response of a teleoperation system to assistive forces–A model analytic study and simulation. *Fusion Engineering and Design*

2012 (4)

Abbink, D. A., Cleij D., van Paassen M.M., Mulder, M. (2012). The importance of including Knowledge of Neuromuscular Behaviour in Haptic Shared Control. *Proceedings of IEEE SMC* 2012 Korea

Happee, R, Damveld, HJ, **Abbink, DA**, Paassen, MM van & Mulder, M (2012). Driver and Pilot Identification and Model Parameter Estimation; Modelling the Visual, Vestibular and Neuromuscular Control Loops. Describing Driver and Pilot Behaviour. In A Spink (Ed.), Proceedings of the Measuring Behavior 2012. 8th International Conference on Methods and Techniques in Behavioral Research (pp. 51-54). Wageningen: Noldus Information Technology.

Mulder, M **& Abbink, D. A.** (2012). Human Centered Steer-By-Wire design. *Proceedings of IEEE SMC* 2012 Korea

Venrooij J., Mulder M., van Paase M.M, **Abbink D.A.**, van der Helm F.C.T., Mulder M., Bülthof H.H. (2012). How effective is an armrest in mitigating biodynamic feedthrough? *Proceedings of IEEE SMC* 2012 Korea

2011 (6)

Abbink, D. A., & Mulder, M. (2011). Measurements of Muscle Use during Steering Wheel Manipulation. *Proceedings of IEEE SMC* (pp. 4-9).

Boessenkool, H., **Abbink, D. A.**, Heemskerk, C. J. M., & van der Helm, F. C. T. (2011). Haptic Shared Control Improves Tele-Operated Task Performance towards Performance in Direct Control. *IEEE World Haptics Conference* (pp. 433-438).

Mulder, Mark, Verspecht, T., **Abbink, D. A.**, van Paassen, M. M., Balderas, D. C., Schouten, A. C., Vlugt, E. D., et al. (2011). Identification of Time Variant Neuromuscular Admittance using Wavelets. *Proceedings of IEEE SMC*.

Mulder M. and **Abbink D.A.** (2011) – Correct and Faulty Haptic Shared Control during evasive maneuvers. *IEEE SMC Conference Proceedings*.

Nakamura H., **Abbink D.A.** and Mulder M. (2011) – Is Grip Strength related to neuromuscular admittance during steering? *IEEE SMC Conference Proceedings*.

Venrooij, J., Mulder, M., van Paassen, M. M., **Abbink, D. A.**, Bülthoff, H. H., & Mulder, M. (2011). Cancelling biodynamic feedthrough requires a subject and task dependent approach. *IEEE SMC Conference Proceedings*.

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Abbink, D. A., & Mulder, M. (2010). Motivation for a Neuromuscular Basis for Haptic Shared Control. *Proceedings of IFAC*.

Damveld, H. J., **Abbink, D. A.**, Mulder, M., Mulder, M., van Paassen, M. M., van der Helm, F. C. T., & Hosman, R. J. A. W. (2010). Identification of the Feedback Component of the Neuromuscular System in a Pitch Control Task. *Proceedings of AIAA* (pp. 1-22).

Della Penna, M., van Paassen, M. M., **Abbink, D. A.**, Mulder, M., & Mulder, M. (2010). Reducing Steering Wheel Stiffness is Beneficial in Supporting Evasive Maneuvers. *Proceedings of the IEEE SMC Conference 2010, Istanbul*. **[Basis for 2010 Patent]**

Hosman, R. J. A. W., **Abbink, D. A.**, & Cardullo, F. M. (2010). The Neuromuscular System. *AIAA* (pp. 1-13).

Katzourakis, D., Droogendijk, C., **Abbink, D. A.**, Happee, R., & Holweg, E. (2010). Driver Model with Visual and Neuromuscular Feedback for Objective Assessment of Automotive Steering Systems. *AVEC 2010*.

Mulder, M., & **Abbink, D. A.** (2010). Sharing Control with Elderly Drivers : Haptic Guidance during Curve Negotiation. *IFAC*.

Mulder, Mark, **Abbink, D. A.**, van Paassen, M. M., & Mulder, M. (2010). Haptic Gas Pedal Support During Visually Distracted Car Following. *IFAC*.

Saffarian, M., Happee, R., **Abbink, D. A.**, & Mulder, M. (2010). Investigating the Functionality of Different Human Machine Interfaces for Cooperative Adaptive Cruise Control. *IFAC*.

Tsoi, K. K., Mulder, M., & **Abbink, D. A.** (2010). Balancing Safety and Support : Changing Lanes with a Haptic Lane-keeping Support System. *Proceedings of the IEEE SMC Conference 2010, Istanbul*.

Venrooij, J., **Abbink, D. A.**, Mulder, M., van Paassen, M. M., & Mulder, M. (2010). Understanding the role of the neuromuscular dynamics in biodynamic feedthrough problems. *Pegasus Conference* (Vol. 15). doi:10.1177/1063293X07076701

Venrooij, J., **Abbink, D. A.**, Mulder, M., van Paassen, M. M., & Mulder, M. (2010). Biodynamic feedthrough is task dependent. *IEEE SMC Conference Proceedings*
Awarded best student paper IEEE SMC 2010

Venrooij, J., Mulder, M., van Paassen, M. M., Mulder, M., & **Abbink, D. A.** (2010). A review of biodynamic feedthrough mitigation techniques. *IFAC Conference Proceedings*

Winter, J. C. F. D., Dodou, D., Groot, S. D., **Abbink, D. A.**, & Wieringa, P. A. (2010). Hands-on experience of manual control in a human-machine systems engineering course. *Proceedings of SEFI Annual Conference*.

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Damveld, H. J., **Abbink, D. A.**, Mulder, M., Mulder, M., van Paassen, M. M., van Der Helm, F. C. T., & Hosman, R. J. A. W. (2009). Measuring the Contribution of the Neuromuscular System during a Pitch Control Task. *AIAA Conference*.

Mulder, M., van Paassen, M. M., Mulder, M., & **Abbink, D. A**. (2009). Haptic Car-Following Support with Deceleration Control. Proceedings of the IEEE International Conference on Systems, Man and Cybernetics (pp. 1686–1691). San Antonio, TX, USA: IEEE.

Venrooij, J., Mulder, M., van Paassen, M. M., Mulder, M., & **Abbink, D. A.** (2009). Relating biodynamic feedthrough to neuromuscular admittance. *Proceedings of 2009 IEEE SMC* (pp. 1668-1673). San Antonio. TX.

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Abbink, D. A., Boer, E. R., & Mulder, M. (2008). Motivation for continuous haptic gas pedal feedback to support car following. *IEEE Intelligent Vehicles Symposium* (pp. 283-290). IEEE. doi:10.1109/IVS.2008.4621325

Lasschuit, J., Lam, T. M., Mulder, M., van Paassen, M. M., & **Abbink, D. A.** (2008). Measuring and Modeling Neuromuscular System Dynamics for Haptic Interface Design. *Proceedings of AIAA Conference* (pp. 1-39). Honolulu, Hawaii.

Mulder, Mark, **Abbink, D. A.,** & Boer, E. R. (2008). The effect of haptic guidance on curve negotiation behavior of young, experienced drivers. *Proceedings of IEEE SMC* (pp. 804-809). Ieee. doi:10.1109/ICSMC.2008.4811377

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Boer, E. R., de Bruin, J., **Abbink, D. A.**, Ward, N. J., & Manser, M. (2006). Are drivers with small feet or long legs at greater risk of rear end collisions? *Proceedings of HFES*.

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2004 (2)

Abbink, D. A., & van Der Helm, F. C. T. (2004). Force perception measurements at the foot. *2004 IEEE International Conference on Systems, Man and Cybernetics (IEEE Cat. No.04CH37583)* (pp. 2525-2529). Ieee. doi:10.1109/ICSMC.2004.1400709

Abbink, D. A., van Der Helm, F. C. T., & Boer, E. R. (2004). Admittance measurements of the foot during "maintain position" and "relax" tasks on a gas pedal. *IEEE International Conference on Systems, Man, and Cybernetics* (pp. 2519-2524).