

UNIVERSITÁ DEGLI STUDI DI MILANO:

ALLEGATO B

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Dragan Ahmetovic

Curriculum Vitae

Personal Info

Last Name: Ahmetovic

First Name: Dragan

Birth Date: 24/11/1982

Short Biography

Dragan Ahmetovic is a postdoctoral researcher at the University of Turin, Italy. His research focuses on assistive technologies designed to augment the cognitive capabilities of users and overcome barriers that limit their access to information and physical world. He investigates embodied sensing, knowledge retrieval, intelligent user interfaces and human computer interaction, mediated by mobile and pervasive devices. He received his Ph.D. from the University of Milan in March 2015, and has previously worked as a postdoctoral fellow and project scientist at the Cognitive Assistance Lab of Carnegie Mellon University, Pittsburgh, USA.

Education

13/03/2015 **Ph.D.**, Computer Science - Università degli Studi di Milano, Milano, Italia

Supervisor: Prof. Sergio Mascetti

Thesis: *"Assistive technologies on mobile devices for people with visual impairments"*

15/12/2010 **M.Sc.**, Computer Science - Università degli Studi di Milano, Milano, Italia

Supervisor: Prof. Sergio Mascetti

Thesis: *"Analysis, design and development of a zebra crossing recognition system on mobile platform"*

Grade: 110/110 summa cum laude

22/10/2007 **B.Sc.**, Computer Science - Università degli Studi di Milano, Milano, Italia

Supervisor: Prof. Giovanni Degli Antoni

Thesis: *"Design and development of a Web Templating Engine"*

Grade: 104/110

Work Experience

01/06/2018 **Postdoctoral Research Fellow**, Università degli Studi di Torino, Turin, Italy

Supervisor: Prof. Anna Capietto

- Researcher on AudioFunctions.Web: cross-platform multi modal interaction paradigms for access to mathematical functions for individuals with visual impairments. In collaboration with Prof. Sergio Mascetti - Università degli Studi di Milano; Dr. João Guerreiro - Carnegie Mellon University, USA.
- Researcher on the Axxessibility project for non-visual mathematical formulae accessibility in PDF documents generated from L^AT_EX typesetting language.
- Researcher on context-adaptive natural language processing for non-visual access, navigation and input of mathematical formulae.
- Researcher on visual segmentation and Optical Character Recognition of mathematical formulae.
- Researcher on verbal, sonification and musification driven interaction paradigms to support navigation instructions during assisted mobility of people with visual impairments. In collaboration with Prof. Sergio Mascetti, Prof. Federico Avanzini, Prof. Luca A. Ludovico - Università degli Studi di Milano; Prof. Uran Oh - Ewha Womans University, South Korea; Dr. João Guerreiro, Prof. Chieko Asakawa - Carnegie Mellon University, USA.
- Researcher on recognition of navigation cues and obstacles through visual information processing on mobile devices. In collaboration with Prof. Sergio Mascetti - Università degli Studi di Milano.

- 01/09/2017 **Project Scientist**, Human Computer Interaction Institute and Robotics Institute, Carnegie Mellon University, Pittsburgh, Pennsylvania, USA
- 18/05/2018 **Supervisors:** Prof. Chieko Asakawa, Prof. Kris M. Kitani
- Researcher on NavCog project for assisted navigation of visually impaired individuals using smartphones and bluetooth low energy (BLE) beacons. In collaboration with Dr Masayuki Murata, Dr. Daisuke Sato, Dr. Hiro Takagi - IBM Research Tokyo; Prof. Erin Brady - Purdue University.
 - Researcher on the project NavCog Preview for the usage of gesture-driven virtual navigation on mobile devices as a mean for the construction of mental representations and cognitive mapping of real world spaces by individuals with visual impairments.
 - Researcher on the behavior clustering of visually impaired users during assisted urban mobility. In collaboration with Prof. Hernisa Kacorri - University of Maryland, Dr. Hiro Takagi, IBM Research Tokyo, Prof. Sergio Mascetti - Università degli Studi di Milano.
 - Researcher on the CaBot (Cognitive Assistance Robot) project, focusing on the design and development of a cyber-haptic interface for assisted guide of individuals with visual impairments.
 - Researcher on the LuzDeploy project for asynchronous orchestration of crowdworkers for installation and maintenance of smart environments for assisted living of visually impaired and older individuals. In collaboration with Prof Saiph Savage - West Virginia University.
 - Researcher on classification of time series of head movements using Deep Recurrent Neural Networks to support non verbal communication for individuals with visual and cognitive impairments.
 - Researcher on Personal Object Recognizer Project for autonomous training of a deep-learning based object recognition mobile app for individuals with visual impairments. In collaboration with Dr. Daisuke Sato, Dr. Tatsuya Ishihara - IBM Research Tokyo.
- 10/11/2015 **Postdoctoral Research Fellow**, Human Computer Interaction Institute and Robotics Institute, Carnegie Mellon University, Pittsburgh, Pennsylvania, USA
- 31/08/2017 **Supervisors:** Prof. Chieko Asakawa, Prof. Kris M. Kitani
- Researcher on assisted navigation for individuals with visual and mobility impairments through the usage of smartphones and pervasive bluetooth transmitters installed in the environment. In collaboration with Dr Masayuki Murata, Dr Daisuke Sato, Dr. Hiro Takagi - IBM Research Tokyo; Prof. Erin Brady - Indiana University Purdue.
 - Researcher on the coordination of volunteers for dissemination of transmitters and collection of signal data for enabling indoor navigation assistance for individuals with visual impairments. In collaboration with Prof Saiph Savage - West Virginia University.
 - Researcher on the detection of spontaneous head gestures in natural video data using computer vision to support non verbal communication for individuals with visual and cognitive impairments.
- 10/06/2014 **Intern**, University of California, Santa Cruz and Smith-Kettlewell Eye Research Institute, Santa Cruz and San Francisco, California, USA
- 12/08/2014 **Supervisors:** Prof. Roberto Manduchi, Dr. James Coughlan
- Main researcher on the ZebraSpotter project for detection of pedestrian crossings from satellite and street-level imagery. In collaboration with Prof. Sergio Mascetti - Università degli Studi di Milano.
- 01/03/2011 **Software engineer and System Administrator**, EveryWare Technologies, Milano, Italia
- 31/12/2013 **Roles:**
- Engineering and development of geo-spatial obfuscation algorithms for a mobile friend finder app.
 - Engineering and development of a web dashboard for Business Intelligence indicators of a system for the monitoring and prevention of falls of patients in a hospital environment.
 - Linux and Windows system administrator for the IT infrastructure at the employing organization and, as a consultant, for clients including local governmental authority of Valtellina di Tirano area.

Teaching Experience

- 2019 **Information Processing Systems (15h) - Course Lecturer**
Specialization School in Medical Physics - Università degli Studi di Milano, Milano, Italia
- 2017 **Human Robot Interaction (4h) - Course Guest Lecturer**
Carnegie Mellon University, Pittsburgh, USA
- 2012 **Databases (48h) - Assistant Lecturer**
Università degli Studi di Milano, Milano, Italia
- 2007 **C programming language (25h) - Course Lecturer**
Liceo Scientifico G. Bruno, Melzo (MI), Italia

Awards and Recognitions

- 2017 **Best Paper Award**
“Achieving Practical and Accurate Indoor Navigation for People with Visual Impairments”
International Cross-Disciplinary Conference on Web Accessibility (W4A), Perth, Australia
- 2016 **Best Paper Finalist**
“Supporting Orientation of People with Visual Impairment: Analysis of Large Scale Usage Data”
ACM SIGACCESS Conference on Computers and Accessibility (ASSETS), Reno, NV, USA
- The Paciello Group Web Accessibility Challenge - Delegates Award**
“NavCog: turn-by-turn smartphone navigation assistant for people with visual impairments or blindness”
International Cross-Disciplinary Conference on Web Accessibility (W4A), Montreal, Canada
- 2013 **CVML Summer School - Best Poster Award**
“Independent way-finding for visually-impaired users”
Computer Vision and Machine Learning Summer School (CVMLSS), Paris, France
- 2012 **Doctoral Consortium - Best PhD Forum Award**
“Independent way-finding for visually impaired users through multi-sensorial data analysis on mobile devices”
Conference on Pervasive Computing and Communications (Percom), Lugano, Switzerland

Funded Projects

- 13/07/2018 **Title:** “Calcolo delle Variazioni, Analisi Tempo-Frequenza e Natural Language Generation
08/07/2020 per lo sviluppo di nuove Tecnologie Assistive per le STEM”
Role: Co-PI
PI: Prof. Anna Capietto, Dr. Tiziana Armano, Dr. Dragan Ahmetovic, Dr. Michele Berra -
Università degli Studi di Torino
Call: “Progetti di Ricerca finanziati dall’Università degli Studi di Torino”
- 01/09/2016 **Title:** “NRI: A Cognitive Navigation Assistant for the Blind”
31/08/2019 **Role:** Senior Personnel, contributed to grant development and writing
PI: Prof. Kris M. Kitani, Prof. Manuela Veloso - Carnegie Mellon University, USA
Call: National Robotics Initiative, U.S. National Science Foundation
Awarded Amount: \$1,000,000

Editorial Activities

- 2019 **Special Issue Editor** – Technology to Support Independent Orientation & Mobility of People with Visual Impairments – ACM Transactions on Accessible Computing (TACCESS)

Conference Organization

- 2019 **Publicity Chair & Program Committee Member** – ACM SIGACCESS Conference on Computers and Accessibility (ASSETS)
Workshop Organizer – Hacking Blind Navigation Workshop - ACM SIGCHI Human Factors in Computing Systems (CHI)
Program Committee Member – International Conference on Mobile Ubiquitous Computing, Systems, Services and Technologies (UBICOMM)
- 2018 **Doctoral Consortium Chair** – International Cross-Disciplinary Conference on Web Accessibility (W4A)
Program Committee Member – Automatic Face and Gesture Recognition (FG)

- Program Committee Member** – Workshop on Symbiotic Interaction and Harmonious Collaboration for Wisdom Computing (SymCollab2018) at Intelligent User Interfaces (IUI2018)
- 2017 **Associate Chair** – ACM SIGCHI Human Factors in Computing Systems (CHI)
- Doctoral Consortium Panelist** – ACM SIGACCESS Conference on Computers and Accessibility (ASSETS)
- VASC Seminar Host** – Hosted visiting speaker Prof. Roberto Manduchi
- 2013 **Web Chair** – IEEE International Conference on Mobile Data Management (MDM)

Conference Presentations

- 2018 **ACM SIGACCESS Conference on Computers and Accessibility (ASSETS)**
 “Turn Right: Analysis of Rotation Errors in Turn-by-Turn Navigation for Individuals with Visual Impairments”
- International Cross-Disciplinary Conference on Web Accessibility (W4A)**
 “How Context and User Behavior Affect Indoor Navigation Assistance for Blind People”
- 2017 **International Cross-Disciplinary Conference on Web Accessibility (W4A)**
 “Achieving Practical and Accurate Indoor Navigation for People with Visual Impairments”
- International Cross-Disciplinary Conference on Web Accessibility (W4A)**
 “LuzDeploy: A Collective Action System for Installing Navigation Infrastructure for Blind People”
- International Cross-Disciplinary Conference on Web Accessibility (W4A)**
 “Math Melodies: Supporting Visually Impaired Primary School Students in Learning Math”
- Symposium on Wayfinding at University of California, Santa Cruz**
 “Research Challenges on Large Scale Indoor Navigation for People with Visual Impairment”
- 2016 **IBM World of Watson (WOW)**
 Demonstration of NavCog and ShopAssistant software
- International Cross-Disciplinary Conference on Web Accessibility (W4A)**
 “NavCog: turn-by-turn smartphone navigation assistant for people with visual impairments or blindness”
- International Conference on Human-Computer Interaction with Mobile Devices and Services (MobileHCI)**
 “NavCog: A Navigational Cognitive Assistant for the Blind”
- Capacity Building for Accessibility**
 Presentation of Cognitive Assistance Lab at Cmu Workshop on Accessibility
- 2014 **International Conference on Pattern Recognition (ICPR)**
 “ZebraRecognizer: efficient and precise localization of pedestrian crossings”
- 2013 **Computer Vision and Machine Learning Summer School (CVMLSS)**
 “Smartphone-assisted mobility in urban environments for visually impaired users through computer vision and sensor fusion”
- 2012 **International Conference on Pervasive Computing and Communications (Percom)**
 “Independent way-finding for visually impaired users through multi-sensorial data analysis on mobile devices”

Peer Reviewing Activities

- 2019 **ACM Human Factors in Computing Systems (CHI)**
- Elsevier Int. Journal of Human-Computer Studies (IJHCS)**
- ACM IFIP TC.13 International Conference on Human-Computer Interaction (INTERACT)**
- MDPI Symmetry**
- MDPI Sensors**

- 2018 **ACM** Human Factors in Computing Systems (CHI)
ACM Computers & Accessibility (ASSETS)
ACM Int. Cross-Disciplinary Conf. on Web Accessibility (W4A)
Elsevier Int. Journal of Human-Computer Studies (IJHCS)
Hindawi Mobile Information Systems (MIS)
MDPI Int. Journal of Geo-Information (IJGI)
MDPI Sensors
SPIE Journal of Electronic Imaging (JEI)
- 2017 **ACM** Interactive, Mobile, Wearable and Ubiquitous Technologies (IMWUT)
ACM Int. Joint Conf. on Pervasive and Ubiquitous Computing (UbiComp)
ACM Human Factors in Computing Systems (CHI)
ACM Computers & Accessibility (ASSETS)
ACM Int. Cross-Disciplinary Conf. on Web Accessibility (W4A)
Elsevier Int. Journal of Human-Computer Studies (IJHCS)
Hindawi Mobile Information Systems (MIS)
MDPI Int. Journal of Geo-Information (IJGI)
MDPI Sensors
SPIE Journal of Electronic Imaging (JEI)
Springer Journal of Real-Time Image Processing (RTIP)
- 2016 **ACM** Human-Computer Interaction with Mobile Devices and Services (MobileHCI)
ACM Transactions on Accessible Computing (TACCESS)
Elsevier Int. Journal of Human-Computer Studies (IJHCS)
IEEE Transactions on Human-Machine Systems (THMS)
MDPI Sensors
- 2015 **Elsevier** Int. Journal of Human-Computer Studies (IJHCS)
- 2014 **IEEE** Int. Conf. on Pervasive Computing and Communications (PERCOM)

Publications

Journal Articles

- 2018 Cole Gleason, **Dragan Ahmetovic**, Saiph Savage, Carlos Toxtli, Carl Posthuma, Chieko Asakawa, Kris M. Kitani, and Jeffrey P. Bigham. "Crowdsourcing the Installation and Maintenance of Indoor Localization Infrastructure to Support Blind Navigation". In: *PACM on Interactive, Mobile, Wearable and Ubiquitous Technologies (IMWUT) - ACM International Joint Conference on Pervasive and Ubiquitous Computing (UbiComp)* (2018). ISSN: 2474-9567
- Hernisa Kacorri, Sergio Mascetti, Andrea Gerino, **Dragan Ahmetovic**, Valeria Alampi, Hironobu Takagi, and Chieko Asakawa. "Insights on Assistive Orientation and Mobility of People with Visual Impairment Based on Large-Scale Longitudinal Data". In: *Transactions on Accessible Computing* (2018). ISSN: 1936-7228
- 2017 **Dragan Ahmetovic**, Roberto Manduchi, James Coughlan, and Sergio Mascetti. "Mind your crossings: Mining GIS imagery for crosswalk localization". In: *Transactions on Accessible Computing* (2017). ISSN: 1936-7228
- 2016 Sergio Mascetti, Lorenzo Picinali, Andrea Gerino, **Dragan Ahmetovic**, and Cristian Bernareggi. "Sonification of guidance data during road crossing for people with visual impairments or blindness". In: *International Journal of Human-Computer Studies* (2016). ISSN: 1071-5819

Sergio Mascetti, **Dragan Ahmetovic**, Andrea Gerino, Cristian Bernareggi, Mario Busso, and Alessandro Rizzi. "Robust traffic lights detection on mobile devices for pedestrians with visual impairment". In: *Computer Vision and Image Understanding* (2016). ISSN: 1077-3142

Sergio Mascetti, **Dragan Ahmetovic**, Andrea Gerino, and Cristian Bernareggi. "ZebraRecognizer: Pedestrian Crossing Recognition for People with Visual Impairment or Blindness". In: *Pattern Recognition* (2016). ISSN: 0031-3203

Conference Proceedings

- 2019 **Dragan Ahmetovic**, Federico Avanzini, Adriano Baratè, Cristian Bernareggi, Gabriele Galimberti, Luca A. Ludovico, Sergio Mascetti, and Giorgio Presti. "Sonification of Rotation Instructions to Support Navigation of People with Visual Impairment". In: *(To appear in) International Conference on Pervasive Computing and Communications (PerCom)*. IEEE. 2019

João Guerreiro, **Dragan Ahmetovic**, Daisuke Sato, Kris Kitani, and Chieko Asakawa. "Airport Accessibility and Navigation Assistance for People with Visual Impairments". In: *to appear in: ACM Human Factors in Computing Systems (CHI)*. 2019

Jefrey P Bigham, Edward Cutrell, Daisuke Sato, **Dragan Ahmetovic**, and Chieko Asakawa. "Hacking Blind Navigation Workshop". In: *to appear in: ACM Human Factors in Computing Systems (CHI)*. 2019

- 2018 **Dragan Ahmetovic**, Uran Oh, Sergio Mascetti, and Chieko Asakawa. "Turn Right: Analysis of Rotation Errors in Turn-by-Turn Navigation for Individuals with Visual Impairments". In: *ACM SIGACCESS Conference on Computers and Accessibility (ASSETS)*. ACM. 2018. ISBN: 978-1-4503-5650-3/18/10

João Guerreiro, Eshed Ohn-Bar, **Dragan Ahmetovic**, Kris Kitani, and Chieko Asakawa. "How Context and User Behavior Affect Indoor Navigation Assistance for Blind People". In: *International Cross-Disciplinary Conference on Web Accessibility (W4A)*. ACM. 2018. ISBN: 978-1-4503-5651-0/18/04

Mohit Sharma, **Dragan Ahmetovic**, Laszlo Jeni, and Kris Kitani. "Recognizing Visual Signatures of Spontaneous Head Gestures". In: *Winter Conference on Applications of Computer Vision*. IEEE. 2018. ISBN: 978-1-5386-4886-5

Ohn-Bar Eshed, Joao Guerreiro, **Dragan Ahmetovic**, Kris Kitani, and Chieko Asakawa. "Modeling Expertise in Assistive Navigation Interfaces for Blind People". In: *Conference on Intelligence User Interfaces*. ACM. 2018. ISBN: 978-1-4503-4945-1

Masayuki Murata, **Dragan Ahmetovic**, Daisuke Sato, Hironobu Takagi, Kris M. Kitani, and Chieko Asakawa. "Smartphone-based Indoor Localization for Blind Navigation across Building Complexes". In: *International Conference on Pervasive Computing and Communications (PerCom)*. IEEE. 2018. ISBN: 978-1-5386-3224-6

Dragan Ahmetovic, Tiziana Armano, Cristian Bernareggi, Michele Berra, Anna Capietto, Sandro Coriasco, Nadir Murru, Alice Ruighi, and Eugenia Taranto. "Axessibility: a LaTeX Package for Mathematical Formulae Accessibility in PDF Documents". In: *ACM SIGACCESS Conference on Computers and Accessibility (ASSETS)*. ACM. 2018. ISBN: 978-1-4503-5650-3/18/10

Saki Asakawa, João Guerreiro, **Dragan Ahmetovic**, Kris M. Kitani, and Chieko Asakawa. "The Present and Future of Museum Accessibility for People with Visual Impairments". In: *ACM SIGACCESS Conference on Computers and Accessibility (ASSETS)*. ACM. 2018. ISBN: 978-1-4503-5650-3/18/10

Dragan Ahmetovic, Federico Avanzini, Adriano Baratè, Cristian Bernareggi, Gabriele Galimberti, Luca A. Ludovico, Sergio Mascetti, and Giorgio Presti. "Sonification of Pathways for People with Visual Impairments". In: *ACM SIGACCESS Conference on Computers and Accessibility (ASSETS)*. ACM. 2018. ISBN: 978-1-4503-5650-3/18/10

- Niccolò Cantù, Mattia Ducci, **Dragan Ahmetovic**, Cristian Bernareggi, and Sergio Mascetti. "MathMelodies 2: a Mobile Assistive Application for People with Visual Impairments Developed with React Native". In: *ACM SIGACCESS Conference on Computers and Accessibility (ASSETS)*. ACM. 2018. ISBN: 978-1-4503-5650-3/18/10
- 2017 Joao Guerreiro, **Dragan Ahmetovic**, Kris Kitani, and Chieko Asakawa. "Virtual Navigation for Blind People: Building Sequential Representations of the Real-World". In: *ACM SIGACCESS Conference on Computers and Accessibility (ASSETS)*. ACM. 2017. ISBN: 978-1-4503-4926-0
- Dragan Ahmetovic**, Masayuki Murata, Cole Gleason, Erin Brady, Hironobu Takagi, Kris Kitani, and Chieko Asakawa. "Achieving Practical and Accurate Indoor Navigation for People with Visual Impairments". In: *International Cross-Disciplinary Conference on Web Accessibility (W4A)*. ACM. 2017. ISBN: 978-1-4503-4900-0
- Dragan Ahmetovic**, Valeria Alampi, Cristian Bernareggi, Andrea Gerino, and Sergio Mascetti. "Math Melodies: Supporting Visually Impaired Primary School Students in Learning Math". In: *International Cross-Disciplinary Conference on Web Accessibility (W4A)*. ACM. 2017. ISBN: 978-1-4503-4900-0
- Cole Gleason, **Dragan Ahmetovic**, Carlos Toxtli, Saiph Savage, Jeffrey P. Bigham, and Chieko Asakawa. "LuzDeploy: A Collective Action System for Installing Navigation Infrastructure for Blind People". In: *International Cross-Disciplinary Conference on Web Accessibility (W4A)*. ACM. 2017. ISBN: 978-1-4503-4900-0
- 2016 Sergio Mascetti, **Dragan Ahmetovic**, Andrea Gerino, Cristian Bernareggi, Mario Busso, and Alessandro Rizzi. "Supporting Pedestrians with Visual Impairment During Road Crossing: A Mobile Application for Traffic Lights Detection". In: *International Conference on Computers Helping People with Special Needs (ICCHP)*. Springer. 2016. ISBN: 978-3-319-41267-2
- Dragan Ahmetovic**, Cole Gleason, Chengxiong Ruan, Kris Kitani, Hironobu Takagi, and Chieko Asakawa. "NavCog: A Navigational Cognitive Assistant for the Blind". In: *International Conference on Human Computer Interaction with Mobile Devices and Services (MobileHCI)*. ACM. 2016. ISBN: 978-1-4503-4408-1
- Dragan Ahmetovic**, Cole Gleason, Kris Kitani, Hironobu Takagi, and Chieko Asakawa. "NavCog: turn-by-turn smartphone navigation assistant for people with visual impairments or blindness". In: *International Cross-Disciplinary Conference on Web Accessibility (W4A)*. ACM. 2016. ISBN: 978-1-4503-4138-7
- Hernisa Kacorri, Sergio Mascetti, Andrea Gerino, **Dragan Ahmetovic**, Hironobu Takagi, and Chieko Asakawa. "Supporting Orientation of People with Visual Impairment: Analysis of Large Scale Usage Data". In: *ACM SIGACCESS Conference on Computers and Accessibility (ASSETS)*. ACM. 2016. ISBN: 978-1-4503-4124-0
- 2015 **Dragan Ahmetovic**, Roberto Manduchi, James M Coughlan, and Sergio Mascetti. "Zebra Crossing Spotter: Automatic Population of Spatial Databases for Increased Safety of Blind Travelers". In: *ACM SIGACCESS Conference on Computers and Accessibility (ASSETS)*. ACM. 2015. ISBN: 978-1-4503-3400-6
- 2014 **Dragan Ahmetovic**, Cristian Bernareggi, Andrea Gerino, and Sergio Mascetti. "ZebraRecognizer: efficient and precise localization of pedestrian crossings". In: *International Conference on Pattern Recognition (ICPR)*. Elsevier. 2014. ISBN: 978-1-4799-5209-0
- Andrea Gerino, Nicolò Alabastro, Cristian Bernareggi, **Dragan Ahmetovic**, and Sergio Mascetti. "Mathmelodies: inclusive design of a didactic game to practice mathematics". In: *International Conference on Computers Helping People with Special Needs (ICCHP)*. Springer. 2014. ISBN: 978-3-319-08596-8

- Marzia Taibbi, Cristian Bernareggi, Andrea Gerino, **Dragan Ahmetovic**, and Sergio Mascetti. "Audiofunctions: Eyes-free exploration of mathematical functions on tablets". In: *International Conference on Computers Helping People with Special Needs (ICCHP)*. Springer. 2014. ISBN: 978-3-319-08596-8
- 2013 **Dragan Ahmetovic**. "Smartphone-assisted mobility in urban environments for visually impaired users through computer vision and sensor fusion". In: *International Conference on Mobile Data Management (MDM)*. IEEE. 2013. ISBN: 978-0-7695-4973-6
- Letizia Bertolaja, **Dragan Ahmetovic**, and Sergio Mascetti. "Gonio, Aequus and Incognitus: three spatial granularities for privacy-aware systems". In: *International Conference on Mobile Data Management (MDM)*. IEEE. 2013. ISBN: 978-0-7695-4973-6
- 2012 **Dragan Ahmetovic**. "Independent way-finding for visually impaired users through multi-sensorial data analysis on mobile devices". In: *International Conference on Pervasive Computing and Communications (PERCOM) Workshops*. IEEE. 2012. ISBN: 978-1-4673-0907-3
- 2011 **Dragan Ahmetovic**, Cristian Bernareggi, and Sergio Mascetti. "ZebraLocalizer: identification and localization of pedestrian crossings". In: *International Conference on Human Computer Interaction with Mobile Devices and Services (MobileHCI)*. ACM. 2011. ISBN: 978-1-4503-0541-9