

Dragan Ahmetovic

Curriculum Vitae

Short Biography

I am an Assistant Professor (RTD-B) at the Department of Computer Science of the University of Milan. My 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. I investigate embodied sensing, knowledge retrieval, intelligent user interfaces and human computer interaction, mediated by mobile and pervasive devices.

I conducted my doctoral studies at EveryWare Lab of the University of Milan and I received my Ph.D. in March 2015. I have previously worked as a postdoctoral fellow and project scientist at the Cognitive Assistance Lab of Carnegie Mellon University, Pittsburgh, USA and as a postdoctoral researcher at the "S. Polin" Laboratory for Research and Experimentation with Novel Assistive Technologies for STEM at the University of Turin, Italy.

Education

- 2015-03-13 **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"*
- 2010-12-15 **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"*
- 2007-10-22 **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"*

Work Experience

- 2021-04-01 **Senior Assistant Professor (RTD-b)**, Università degli Studi di Milano, Milan, Italy
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- 2019-08-01 **Junior Assistant Professor (RTD-a)**, Università degli Studi di Milano, Milan, Italy
2021-03-31
- 2018-06-01 **Postdoctoral Research Fellow**, Università degli Studi di Torino, Turin, Italy
2019-07-31 **Supervisor:** Prof. Anna Capietto
- 2017-09-01 **Project Scientist, Postdoctoral Research Fellow**, Human Computer Interaction Institute and Robotics Institute, Carnegie Mellon University, Pittsburgh, Pennsylvania, USA
2018-05-18 **Supervisors:** Prof. Chieko Asakawa, Prof. Kris M. Kitani
- 2015-11-10 **Postdoctoral Research Fellow**, Human Computer Interaction Institute and Robotics Institute, Carnegie Mellon University, Pittsburgh, Pennsylvania, USA
2017-08-31 **Supervisors:** Prof. Chieko Asakawa, Prof. Kris M. Kitani

Teaching Experience

- 2021– **Computer Architectures [laboratory module] (24h) - Course Lecturer**
Computer Science B.Sc. - Università degli Studi di Milano, Milano, Italia
- 2019– **Computer programming [laboratory module] (48h) - Course Lecturer**
Computer Science B.Sc. - Università degli Studi di Milano, Milano, Italia
- 2019 **Development of applications for mobile devices (4h) - Guest Lecturer**
Guest Lesson on Augmented Reality
Computer Science M.Sc. - Università degli Studi di Milano, Milano, Italia
- 2019 **Information Processing Systems (15h) - Course Lecturer**
Specialization School in Medical Physics - Università degli Studi di Milano, Milano, Italia
- 2017 **Human Robot Interaction (4h) - Guest Lecturer**
Guest Lesson on Accessibility and Assistive Technologies
Robotics M.Sc. - Carnegie Mellon University, Pittsburgh, USA
- 2012 **Databases (48h) - Assistant Lecturer**
Computer Science B.Sc. - Università degli Studi di Milano, Milano, Italia
- 2007 **C programming language (25h) - Course Lecturer**
Liceo Scientifico G. Bruno, Melzo (MI), Italia

Awards and Recognitions

- 2019 **Best Paper Award**
“Impact of Expertise on Interaction Preferences for Navigation Assistance of Visually Impaired Individuals”
International Cross-Disciplinary Conference on Web Accessibility (W4A), San Francisco, USA
Intuit Web Accessibility Challenge - Delegates Award
“Multimodal Exploration of Mathematical Function Graphs with AudioFunctions.web”
International Cross-Disciplinary Conference on Web Accessibility (W4A), San Francisco, USA
- 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

Direction and Participation to Funded Projects

- 2021-11-01 **Title:** "Play4Physio: fisioterapia e videogiochi"
2024-10-31 **Role:** PI
Funding Organization: Fondazione Comunità Milano Onlus
Call: 57 - "Progetti Territoriali per la città di Milano"
Awarded Amount: €70 000
- 2021-01-01 **Title:** "Akusesu: accessible visits to places of cultural interest"
2023-12-31 **Role:** Researcher
PI: Prof. Sergio Mascetti - Università degli Studi di Milano
Funding Organization: Ministry of Foreign Affairs and International Cooperation (MAECI)
Call: "Cooperation in the Field of Science and Technology between the Government of Italy and the Government of Japan 2021-2023"
Awarded Amount: €300 000
- 2020-01-01 **Title:** "ROSSINI: Progettazione, realizzazione e sperimentazione di un sistema prototipale di navigazione risk-aware per la gestione e mitigazione del Rischio SiSmico in industrie a rischio di INcidente rilevante"
2021-12-31 **Role:** Researcher
PI: Prof. Sergio Mascetti - Università degli Studi di Milano
Funding Organization: Istituto nazionale Assicurazione Infortuni sul Lavoro (INAIL)
Call: "BRIC 2019"
Awarded Amount: €199 300
- 2019-10-01 **Title:** "MUSA: MUSeo Accessibile"
2021-10-01 **Role:** Researcher
PI: Prof. Sergio Mascetti - Università degli Studi di Milano
Funding Organization: Fondazione Comunità Milano Onlus
Call: 57 - "Progetti Territoriali per la città di Milano"
Awarded Amount: €47 000
- 2019-07-01 **Title:** "Spectral Clustering e Natural Language Generation per lo sviluppo di nuove Tecnologie Assistive per le STEM"
2021-07-01 **Role:** Co-PI
PI: Prof. Anna Capietto - Università degli Studi di Torino
Call: "Progetti di Ricerca finanziati dall'Università degli Studi di Torino"
Awarded Amount: €1 283
- 2019-07-01 **Title:** "Strumenti matematici per le applicazioni"
2021-07-01 **Role:** Co-PI
PI: Dr. Nadir Murru - Università degli Studi di Torino
Call: "Progetti di Ricerca finanziati dall'Università degli Studi di Torino"
Awarded Amount: €8 089
- 2018-07-13 **Title:** "Calcolo delle Variazioni, Analisi Tempo-Frequenza e Natural Language Generation per lo sviluppo di nuove Tecnologie Assistive per le STEM"
2020-07-08 **Role:** Researcher
PI: Prof. Anna Capietto - Università degli Studi di Torino
Call: "Progetti di Ricerca finanziati dall'Università degli Studi di Torino"
Awarded Amount: €2 048
- 2016-09-01 **Title:** "NRI: A Cognitive Navigation Assistant for the Blind"
2019-08-31 **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

- 2021 **Special Issue Editor** – Special Issue on W4A '21 – ACM Transactions on Accessible Computing (TACCESS)
- 2019 **Special Issue Editor** – Technology to Support Independent Orientation & Mobility of People with Visual Impairments – ACM Transactions on Accessible Computing (TACCESS)

Conference Organization

- 2021 **General Chair** – International Cross-Disciplinary Conference on Web Accessibility (W4A)
Best Artifact Chair – ACM SIGACCESS Conference on Computers and Accessibility (ASSETS)
- 2021 **Program Chair** – International Cross-Disciplinary Conference on Web Accessibility (W4A)
Student Research Competition Chair – ACM SIGACCESS Conference on Computers and Accessibility (ASSETS)
Associate Chair – ACM SIGCHI Human Factors in Computing Systems (CHI)
Workshop Organizer: Mobile and Pervasive Assistive Technologies – International Conference on Pervasive Computing and Communications (Percom)
Program Committee Member – The Web Conference (TheWebConf)
- 2020 **Best Paper Committee Member** – ACM SIGCHI Human Factors in Computing Systems (CHI)
Associate Chair – ACM SIGCHI Human Factors in Computing Systems (CHI)
Accessibility Challenge Chair – International Cross-Disciplinary Conference on Web Accessibility (W4A)
Program Committee Member – ACM SIGACCESS Conference on Computers and Accessibility (ASSETS)
- 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)
CMU VASC Seminar Host – Hosted visiting speaker Prof. Roberto Manduchi
- 2013 **Web Chair** – IEEE International Conference on Mobile Data Management (MDM)

Invited Presentations

- 2019 “Media Accessibility of Digital Documents Containing Visual Representations by People with Visual Impairments”
ITU Workshop on “The future of media”
United Nations International Telecommunication Union Agency, Geneva, Switzerland

- “Accessing Digital Documents with Mathematical Content for People with Visual Impairments”
Invited Scientific Seminar
 Smith-Kettlewell Eye Research Institute, San Francisco, USA
- 2017 “Research Challenges on Large Scale Indoor Navigation for People with Visual Impairment”
Symposium on Wayfinding
 University of California, Santa Cruz, USA
- 2016 “NavCog: cognitive navigation assistant for people with visual impairments or blindness”
Capacity Building for Accessibility Seminar
 Carnegie Mellon University, Pittsburgh, Pennsylvania, USA

Publications

Book Chapters

- 2019 Volker Sorge, Dragan Ahmetovic, Cristian Bernareggi, and John Gardner. “Scientific Documents”. In: *Web Accessibility*. Springer, 2019, pp. 397–415. DOI: 10.1007/978-1-4471-7440-0_22

Journal Articles

- 2021 Giorgio Presti, Dragan Ahmetovic, Mattia Ducci, Cristian Bernareggi, Luca Ludovico, Adriano Baratè, Federico Avanzini, and Sergio Mascetti. “Iterative Design of Sonification Techniques to Support People with Visual Impairments in Obstacle Avoidance”. In: *Transactions on Accessible Computing* (2021)
- 2020 João Guerreiro, Daisuke Sato, Dragan Ahmetovic, Eshed Ohn-Bar, Kris Kitani, and Asakawa Chieko. “Virtual Navigation for Blind People: Transferring Route Knowledge to the Real-World”. In: *International Journal of Human-Computer Studies* (2020). ISSN: 1071-5819
- 2019 Dragan Ahmetovic, Sergio Mascetti, Cristian Bernareggi, João Guerreiro, Uran Oh, and Chieko Asakawa. “Deep Learning Compensation of Rotation Errors during Navigation Assistance for People with Visual Impairments or Blindness”. In: *Transactions on Accessible Computing* (2019). ISSN: 1936-7228
- Masayuki Murata, Dragan Ahmetovic, Daisuke Sato, Hironobu Takagi, Kris M Kitani, and Chieko Asakawa. “Smartphone-based localization for blind navigation in building-scale indoor environments”. In: *Pervasive and Mobile Computing* 57 (2019), pp. 14–32
- Daisuke Sato, Uran Oh, João Guerreiro, Dragan Ahmetovic, Kakuya Naito, Hironobu Takagi, Kris M. Kitani, and Chieko Asakawa. “NavCog3: Large-Scale Blind Indoor Navigation Assistant with Semantic Features in the Wild”. In: *Transactions on Accessible Computing* (2019). ISSN: 1936-7228
- 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, 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

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, 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

Conference Proceedings

2021 Dragan Ahmetovic, Nahyun Kwon, Uran Oh, Cristian Bernareggi, and Sergio Mascetti. "Touch Screen Exploration of Visual Artwork for Blind People". In: *The Web Conference (WWW)*. ACM. 2021

Dragan Ahmetovic, Daniele Riboli, Cristian Bernareggi, and Sergio Mascetti. "RePlay: Touchscreen Interaction Substitution Method for Accessible Gaming". In: *International Conference on Human Computer Interaction with Mobile Devices and Services (MobileHCI)*. ACM. 2021

Dragan Ahmetovic, Cristian Bernareggi, Kristian Keller, and Sergio Mascetti. "MusA: Artwork Accessibility through Augmented Reality for People with Low Vision". In: *International Cross-Disciplinary Conference on Web Accessibility (W4A)*. ACM. 2021

Dragan Ahmetovic, Cristian Bernareggi, Sergio Mascetti, and Federico Pini. "Multi-touch Exploration and Sonification of Line Segments". In: *International Cross-Disciplinary Conference on Web Accessibility (W4A)*. ACM. 2021

Dragan Ahmetovic, Cristian Bernareggi, Irene Mantegazza, and Sergio Mascetti. "Word-Melodies: an Inclusive Mobile App Supporting the Acquisition of Literacy Skills". In: *International Cross-Disciplinary Conference on Web Accessibility (W4A)*. ACM. 2021

Dragan Ahmetovic, Cristian Bernareggi, Marco Bracco, Nadir Murru, Tiziana Armano, and Anna Capietto. "LaTeX as an Inclusive Accessibility Instrument for Highschool Mathematical Education". In: *International Cross-Disciplinary Conference on Web Accessibility (W4A)*. ACM. 2021

Dragan Ahmetovic, Cristian Bernareggi, Mattia Ducci, Andrea Gerino, and Sergio Mascetti. "Remote Usage Data Collection and Analysis for Mobile Accessibility Applications". In: *International Conference on Pervasive Computing and Communications (PerCom) - Mobile and Pervasive Assistive Technologies Workshop (MPAT)*. IEEE. 2021

Dragan Ahmetovic, Antonio Pugliese, Sergio Mascetti, Valentina Begnozzi, Elena Boccalandro, Roberta Gualtierotti, and Flora Peyvandi. "Rehabilitation through Accessible Mobile Gaming and Wearable Sensors". In: *ACM SIGACCESS Conference on Computers and Accessibility (ASSETS)*. 2021

2020 Dragan Ahmetovic, Daisuke Sato, Uran Oh, Tatsuya Ishihara, Kris Kitani, and Chieko Asakawa. "ReCog: Supporting Blind People in Recognizing Personal Objects". In: *ACM Human Factors in Computing Systems (CHI)*. ACM. 2020

Dragan Ahmetovic, Tiziana Armano, Cristian Bernareggi, Anna Capietto, Sandro Coriasco, Boris Doubrov, Alexandr Kozlovskiy, and Nadir Murru. "Automatic tagging of formulae in PDF documents and assistive technologies for visually impaired people: the LaTeX package accessibility 3.0". In: *International Conference on Computers Helping People with Special Needs (ICHP)*. Springer. 2020

Cristian Bernareggi, Mattia Ducci, Alessandro Mazzei, Dragan Ahmetovic, Tiziana Armano, Anna Capietto, Sandro Coriasco, and Nadir Murru. "SpeechMatE: a Speech-driven Maths Editor for motor-impaired people". In: *International Conference on Computers Helping People with Special Needs (ICHP)*. Springer. 2020

Dragan Ahmetovic, Cristian Bernareggi, Sergio Mascetti, and Federico Pini. "SoundLines: Exploration of Line Segments through Sonification and Multi-touch Interaction". In: *ACM SIGACCESS Conference on Computers and Accessibility (ASSETS)*. 2020

- Dragan Ahmetovic, Claudio Bettini, Mariano Ciucci, Filippo Dacarro, Paolo Dubini, Alberto Gotti, Gerard O'Reilly, Alessandra Marino, Sergio Mascetti, and Denis Sarigiannis. "Emergency navigation assistance for industrial plants workers subject to situational impairment". In: *ACM SIGACCESS Conference on Computers and Accessibility (ASSETS)*. 2020
- 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: *International Conference on Pervasive Computing and Communications (PerCom)*. IEEE. 2019
- Dragan Ahmetovic, João Guerreiro, Eshed Ohn-Bar, Kris M Kitani, and Chieko Asakawa. "Impact of Expertise on Interaction Preferences for Navigation Assistance of Visually Impaired Individuals". In: *International Cross-Disciplinary Conference on Web Accessibility (W4A)*. 2019
- Dragan Ahmetovic, Cristian Bernareggi, João Guerreiro, Sergio Mascetti, and Anna Capietto. "AudioFunctions.web: Multimodal Exploration of Mathematical Function Graphs". In: *International Cross-Disciplinary Conference on Web Accessibility (W4A)*. 2019
- João Guerreiro, Dragan Ahmetovic, Daisuke Sato, Kris Kitani, and Chieko Asakawa. "Airport Accessibility and Navigation Assistance for People with Visual Impairments". In: *ACM Human Factors in Computing Systems (CHI)*. 2019
- Sergio Mascetti, Dragan Ahmetovic, and Cristian Bernareggi. "Research to Market Transition of Mobile Assistive Technologies for People with Visual Impairments". In: *ACM SIGACCESS Conference on Computers and Accessibility (ASSETS)*. ACM. 2019
- Cristian Bernareggi, Dragan Ahmetovic, and Sergio Mascetti. "MuGraph: Haptic Exploration and Editing of 3D Chemical Diagrams". In: *ACM SIGACCESS Conference on Computers and Accessibility (ASSETS)*. ACM. 2019
- Giorgio Presti, Dragan Ahmetovic, Mattia Ducci, Cristian Bernareggi, Luca Ludovico, Adriano Baratè, Federico Avanzini, and Sergio Mascetti. "WatchOut: Obstacle Sonification for People with Visual Impairment or Blindness". In: *ACM SIGACCESS Conference on Computers and Accessibility (ASSETS)*. ACM. 2019
- Dragan Ahmetovic, Niccolò Cantù, Cristian Bernareggi, João Guerreiro, Sergio Mascetti, and Anna Capietto. "Multimodal Exploration of Mathematical Function Graphs with Audio-Functions.web". In: *International Cross-Disciplinary Conference on Web Accessibility (W4A)*. 2019
- Sergio Mascetti, Giovanni Leontini, Cristian Bernareggi, and Dragan Ahmetovic. "Word-Melodies: supporting children with visual impairment in learning literacy". In: *ACM SIGACCESS Conference on Computers and Accessibility (ASSETS)*. ACM. 2019
- João Guerreiro, Hernisa Kacorri, Jeffrey 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
- 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
- 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

- 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
- 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
- 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
- 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
- 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
- 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
- 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 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
- João 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
- 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 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
- 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
- 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 (ICHP)*. Springer. 2016. ISBN: 978-3-319-41267-2

- 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
- 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
- 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
- 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
- 2013 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 Workshops (MDM)*. IEEE. 2013. ISBN: 978-0-7695-4973-6
- 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
- 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