

# Maria M. Hedblom

COGNITIVE SCIENTIST AND THEORETICAL COMPUTER SCIENTIST

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## Experience

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### Tenured Assistant Professor in Artificial Intelligence

8/2021 –

JÖNKÖPING UNIVERSITY, JÖNKÖPING ARTIFICIAL INTELLIGENCE LABORATORY

Jönköping, Sweden

- Working on several research projects, including industry collaborations.
- Teaching and developing courses for the M.Sc in AI Engineering (was nominated for Best Teacher in 2022).
- Organised several international conferences.
- At writing time, 13 (co-)authored publications and 3 edited conference proceedings were published during this position.

### Postdoctoral Researcher in Cognitive Robotics

2/2021 – 7/2021

UNIVERSITY OF BREMEN, INSTITUTE FOR ARTIFICIAL INTELLIGENCE

Bremen, Germany

- Working in the EASE project on cognitive robotics for everyday activities.
- Working in the MUHAI project on formal semantics for human-centred AI.
- Co-authored grant applications.
- Organised scientific conferences.

### Founding Member of an AI-Tech Start-up

10/2018 – 01/2020

NOVELTY FACTORY KG: PHOTOGENIQ

Vienna, Austria

- AI start-up project on computational creativity, working on taking generative ML into the creative industries.
- Tasks included: Successfully acquiring grant funding, performing market and user analyses, designing business models, preparing training data for GAN algorithms and general product development.

### Postdoctoral Researcher in Theoretical Computer Science

1/2018 – 1/2019

FREE UNIVERSITY OF BOZEN-BOLZANO, THE KRDB RESEARCH CENTRE FOR KNOWLEDGE AND DATA

Bozen-Bolzano, Italy

- Working on ontology-driven conceptual modelling.
- Performed usability tests on ontology algorithms to improve information retrieval and investigated the most appropriate formal representation of events.
- Co-authored grant applications (funds accumulating to approx. 100 000 € was acquired.)
- Organised several scientific conferences, gathering hundreds of people.
- Co-edited conference proceedings.

### Researcher and University Lecturer

8/2012 – 6/2017

FREE UNIVERSITY OF BOZEN-BOLZANO; OTTO-VON-GUERICKE UNIVERSITY MAGDEBURG; UNIVERSITY OF LINKÖPING

Europe

- Taught bachelor and master level courses in computer science, cognitive science and scientific writing.
- Supervision of students, some resulting in publications.

## Education

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### PhD. in Cognitively-Inspired AI

4/2014 – 3/2018

OTTO-VON-GUERICKE UNIVERSITY MAGDEBURG, INSTITUTE OF KNOWLEDGE AND LANGUAGE ENGINEERING

Magdeburg, Germany

- An interdisciplinary research agenda focused on spatiotemporal relationships and their role in human conceptualisations, natural language and metaphors with the purpose to see how it can be used to advance the state of AI.
- Graduated with Magna Cum Laude (*with great honours*), equal to a 1.0.
- Authored over 20 peer-reviewed publications with colleagues from several institutions.
- Co-authored research proposals and project reports.
- Presented research at over 20 conferences and spoke as an invited speaker at several research institutes.
- Co-organised and chaired over 10 scientific conferences and workshops.

### M.Sc. in Cognitive Science

8/2012 – 11/2013

UNIVERSITY OF LINKÖPING, DEPARTMENT OF COMPUTER AND INFORMATION SCIENCE

Linköping, Sweden

- Worked on the teaching staff.
- Wrote my master thesis at the University of Osnabrück, Germany.
- Main subjects: Computer Science, Linguistics and Psychology.

### B.Sc. in Cognitive Science

9/2009 – 9/2013

UNIVERSITY OF LINKÖPING, DEPARTMENT OF COMPUTER AND INFORMATION SCIENCE

Linköping, Sweden

- 9/2011-9/2012: International exchange year at the University of Osnabrück, Germany.
- 06/08 - 06/10: Sat as Chairman for *Kårrullen*; the university's largest culture association, yearly turnover: >10 000 €.
- Main subjects: Research Methodology, Computer Science and Psychology.

## Organisational Roles

Selected organisational commitments in the past five years, the complete list is available on my website.  
Date refers to the date of the event, not the duration of the job.

9/2023	<b>Proceedings chair</b> , 12th Formal Ontology in Information Systems (FOIS).	<i>Sherbrooke, Canada</i>
9/2023	<b>Co-chair</b> , Cognition And OntologieS (CAOS VII). Workshop at FOIS 2023.	<i>Sherbrooke, Canada</i>
9/2023	<b>Co-organiser</b> , EPIA track: AI, Generation and Creativity (AIGC).	<i>Faial, Portugal</i>
6/2023	<b>Co-organiser</b> , 35th Workshop of the Swedish AI Society (SAIS).	<i>Karlskrona, Sweden</i>
9/2024	<b>Organiser</b> , The Seventh Image Schema Day Workshop (ISD7). Workshop ad KR 2023	<i>Rhodes, Greece</i>
8/2022	<b>Local organiser / General chair</b> , The Joint Ontology Workshops.	<i>Jönköping, Sweden</i>
8/2022	<b>Co-chair</b> , Cognition And OntologieS (CAOS VI). Workshop at JOWO 2022.	<i>Jönköping, Sweden</i>
6/2022	<b>Program Chair</b> , The 13th International Conference on Computational Creativity (ICCC22).	<i>Bozen, Italy</i>
4/2022	<b>Organiser</b> , The Sixth Image Schema Day Workshop (ISD6).	<i>Jönköping, Sweden</i>
9/2021	<b>Chair</b> , Cognition And OntologieS (CAOS V). Workshop at JOWO@BOSK 2021.	<i>Bozen, Italy</i>
3/2021	<b>Co-organiser and Moderator</b> , TransAIR. Workshop on Robotics.	<i>Virtual / Bremen, DE</i>
2020-21	<b>Publicity-Chair</b> , 11th Formal Ontology in Information Systems (FOIS).	<i>Bozen, Italy</i>
11/2019	<b>Co-Chair</b> , Tricolore 2019	<i>Bozen, Italy</i>
9/2019	<b>Web-Chair</b> , Conference on Knowledge Engineering and Knowledge Management (EKAW).	<i>Bozen, Italy</i>
9/2019	<b>Co-Chair</b> , Cognition and OntologieS (CAOS 4). Workshop at JOWO 2019.	<i>Graz, Austria</i>
12/2018	<b>Local Organiser</b> , TriCoLore: ISD4, C3GI and SCORE.	<i>Bozen, Italy</i>
9/2018	<b>Co-Chair</b> , Early Career Symposium (ECS) at FOIS 2018.	<i>Cape Town, SA</i>
9/2018	<b>Co-Chair</b> , Cognition and OntologieS (CAOS 3). Workshop at JOWO 2018.	<i>Cape Town, SA</i>

## Editor and Committee Roles

Selected editor and program committee member roles.

11/2022	– <b>Associate Editor</b> , CEUR Workshop Proceedings (the world's biggest open-access publisher in CS)	<i>CEUR-WS</i>
1/2022	– <b>Editorial board member</b> , Journal of Applied Ontology	<i>IOS Press</i>
2023	<b>Reviewer</b> , Semantic Web Journal	<i>IOS Press</i>
2022	<b>Reviewer</b> , Cognitive Systems Research	<i>Elsevier</i>
2022	<b>Reviewer</b> , IEEE Transactions on Cognitive and Developmental Systems	<i>IEEE</i>
07/2023	<b>Program Committee Member</b> , The 13th Formal Ontology and Information Science (FOIS 2023)	<i>Sherbrooke, Canada</i>
6/2023	<b>Senior Program Committee Member</b> , The 14th International Conference on Computational Creativity (ICCC 2023)	<i>Waterloo, Canada</i>
5/2022	<b>Program Committee Member</b> , European Semantic Web Conference (ESWC 2022)	<i>Hersonissos, Greece</i>
5/2022	<b>Program Committee Member</b> , 1st Workshop on Modular Knowledge (MK2022)	<i>Hersonissos, Greece</i>
12/2021	<b>Program Committee Member</b> , The Eleventh International Conference on Knowledge Capture (K-Cap 2021)	<i>Virtual</i>
2021	<b>Mentor</b> , Google Summer of Code. Part of the Red Hen Lab.	<i>Virtual</i>
11/2021	<b>Program Committee Member</b> , Technology, Mind and Society. by the American Psychological Association.	<i>Virtual</i>
10/2017-	<b>Hanse-Wissenschaftskolleg (HWK) Study Group Member</b> , Modeling Conceptual Knowledge and	<i>Delmenhorst, Germany</i>
03/2022	Conceptual Change	
6/2021	<b>Program Committee Member</b> , European Semantic Web Conference (ESWC 2021)	<i>Hersonissos, Greece</i>
5/2020	<b>Program Committee Member</b> , European Semantic Web Conference (ESWC 2020)	<i>Heraklion, Greece</i>
11/2019	<b>Program Committee Member</b> , K-Cap 2019: The Tenth International Conference on Knowledge Capture	<i>Marina del Rey, CA, US</i>
9/2019	<b>Program Committee Member</b> , SHAPES 5.0: The Shape of Things	<i>Graz, Austria</i>
11/2018	<b>Program Committee Member</b> , EKAW 2018: International Conference on Knowledge Engineering and Knowledge Management	<i>Nancy, France</i>
9/2018	<b>Program Committee Member</b> , EPINON 2018: Second International Workshop on Epistemology in Ontologies @FOIS	<i>Cape Town, SA</i>
7/2018	<b>Program Committee Member</b> , CreaCogMod 2018: Computational Methods and Systems for the Cognitive Modelling and Support of Creativity and Creative Problem Solving @COGSCI	<i>Madison, Wis, US</i>
9/2017	<b>Program Committee Member</b> , EPINON 2017: First International Workshop on Epistemology in Ontologies @JOWO	<i>Bolzano, Italy</i>

## Teaching

Courses in which I develop the whole or part of the content, acted as the main lecturer or was responsible for a large component of the course.

**JU:** Jönköping University, Sweden; **Uni-Bremen:** University of Bremen, Germany; **UNIBZ:** Free University of Bozen-Bolzano, Italy; **OVGU:** Otto-von-Guericke University Magdeburg, Germany; **LIU:** University of Linköping, Sweden

2021-	<b>PhD thesis co-supervision</b> , Co-supervisor to Kaviya Dhanabalachandran at University of Bremen.	<i>Uni-Bremen</i>
2022/23	<b>Master thesis supervision</b> , Supervised / examined two master theses in the AI Engineering Master.	<i>JU</i>
2022/23	<b>Ethics of Artificial Intelligence</b> , Developed the course for AI Engineering masters. Held together with Prof. Riveiro.	<i>JU</i>
2021/22/23	<b>Research Methods for Intelligent Systems</b> , Course for AI Engineering masters.	<i>JU</i>
2021	<b>Knowledge Representation and the Semantic Web</b> , Co-developed the course for AI Engineering masters. Held together with Dr. Tan.	<i>JU</i>
2021/22/23	<b>Mentoring at Google Summer of Code</b> , Mentoring for The International Distributed Little Red Hen Lab	<i>Virtual</i>
2017	<b>Thesis supervision</b> , Master thesis supervision on conceptual modelling.	<i>UNIBZ</i>
2017	<b>Technical and scientific communication</b> , Course for computer science masters. Together with Prof. Guizzardi.	<i>UNIBZ</i>
2017	<b>Survey of research on the frontiers of computer science</b> , Course for computer science masters. Together with M. Thosar.	<i>OVGU</i>
2015	<b>Seminar on computational creativity</b> , Course for computer science masters. Together with Dr. Neuhaus.	<i>OVGU</i>
2014-15	<b>Study project on image schema formalisation</b> , For computer science masters. Together with Prof. Kutz.	<i>OVGU</i>
2013	<b>Programming and logic</b> , Course for cognitive science bachelors. Role: laboratory assistant.	<i>LIU</i>
2012	<b>Introduction to cognitive science</b> , Course for cognitive science bachelors. Role: laboratory assistant.	<i>LIU</i>
2012	<b>Cognitive modelling</b> , Course for cognitive science bachelors. Role: laboratory assistant.	<i>LIU</i>
2012	<b>Programming and discrete mathematics</b> , Course for cognitive science bachelors. Role: laboratory assistant.	<i>LIU</i>

## Invited Speaker

### Invited Researcher at the KRBD

FREE UNIVERSITY OF BOZEN-BOLZANO

Offered a visiting scholar grant to conduct joint research.

*Bolzano, Italy*

*January, 2023*

### Invited speaker at the IAI

UNIVERSITY OF BREMEN

Talk: Semantically, Piece by Piece: On the value of using conceptual micropatterns in intelligent systems

*Bremen, Germany*

*September 5th, 2022*

### Start-up Accelerator Program

SCIENCE PARK

Talk: A Tiny Taste of Ethics of AI

*Jönköping, Sweden*

*June 8th, 2022*

### EASE fall school

UNIVERSITY OF BREMEN

Talk: From Sense to Reason – Using Image Schemas to Intelligently Reason about Objects and Events

*Bremen, Germany (Virtual)*

*November 10th, 2021*

### AI-Dagen

ELMIA CONFERENCE VENUE

Invited to moderate the event as a AI scientist

*Jönköping, Sweden*

*September 30th, 2021*

### Invited presenter at the institute

JÖNKÖPING AI LAB

Talk: Image Schemas: Puzzle pieces of thought to ground meaning in AI

*Jönköping, Sweden*

*October 27th, 2020*

### MUHAI kick-off meeting

VENICE INTERNATIONAL UNIVERSITY

Talk: What's the meaning of this? Representing meaning with image schemas

*Venice, Italy*

*October 5-9, 2020*

### Invited presenter at the institute

IIIA-CSIC

Talk: From embodied cognition to formal representation

*Bellaterra, Spain*

*February 7, 2017*

### Invited presenter at the institute

TECHNISCHE UNIVERSITÄT DRESDEN

Talk: Image schemas in computational concept invention

*Dresden, Germany*

*January 5, 2017*

### Invited presenter at the institute

IIIA-CSIC

Talk: Concept invention for AI using the cognitive theories of image schemas and conceptual blending

*Bellaterra, Spain*

*April 14, 2016*

## Selected Skills

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<b>Research</b>	Statistical Analysis, Quantitative-, Qualitative- and Ethnographic Methodology, Communication and Semantic Analysis, Ontology and Logic, Cognitive and Conceptual Modelling, Eye-Tracking,
<b>Computer</b>	Microsoft Office, PowerPoint, Prezi, Python Programming, LaTeX, Wordpress, Photoshop
<b>Soft</b>	Teaching, Interpersonal Communication, Leadership, Adaptability, Teamwork, Positive Outlook, Logical Thinking
<b>Languages</b>	<b>C2:</b> Swedish, English; <b>B2:</b> German; <b>A2:</b> Spanish, Italian, Japanese

## Publications

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### (Main) Editor of Conference Proceedings

Sales, T., **Hedblom, M.**, Tan, H. (Eds.). (2022). *Proceedings of the Joint Ontology Workshops 2022, Episode VIII: The Svear Sommar of Ontology*. Jönköping, Sweden. August 15-19, 2022. CEUR proceedings Vol-3249

**Hedblom, M.**, Kantosalo, A., Confalonieri, R., Kutz, O., Veale, T. (Eds.). (2022). *Proceedings of the 13th International Conference on Computational Creativity*. Bozen-Bolzano, Italy. June 27-July 1, 2022. ISBN: 978-989-54160-4-2

**Hedblom, M.**, Kutz, O. (Eds.). (2022). *Proceedings of the Sixth Image Schema Day 2022: Jönköping, Sweden*. March 24-25th, 2022. CEUR proceedings Vol-3140

Kutz, O., **Hedblom M. M.**, Besold, T.R., Confalonieri, R., León, C., Veale, T. and Bateman, J. *Proceedings of TriCoLore 2018: The 7th International Workshop on Computational Creativity, Concept Invention, and General Intelligence (C3GI 2018), The 4th Image Schema Day (ISD4), and SCORE: From Image Schemas to Cognitive Robotics*, Bozen-Bolzano, Italy. December 13-15, 2018. CEUR proceedings Vol-2347

### Books and Book Chapters

**Hedblom, M.M.**, *Methodological reflection of the documentanalysis of .co.kr from the %WRONG Browser series*. In Hinterwaldner et al (eds): *Navigation*, SPP Heft, Universitätsverlag LMU, München 2022. ISBN: 978-3-487-16315-4. **doi:** 10.5282/ubm/epub.93518

**Hedblom, M.M.**, *Image Schemas and Concept Invention: Cognitive, Logical, and Linguistic Investigations*. Cognitive Technologies book series, Springer Verlag ISBN 978-3-030-47328-0

**Hedblom, M.M.**, Kutz, O. and Neuhaus, F., *Image schemas in Concept Invention*. In Confalonieri et al. (Eds.), *Concept Invention: Foundations, Implementation, Social Aspects and Applications*, Springer Verlag (2018). **doi:** 10.1007/978-3-319-65602-1\_4

### Articles in Peer-Reviewed Scientific Journals

Pomarlan, M., **Hedblom, M.M.**, and Porzel, R., *Curiously Exploring Affordance Spaces of a Pouring Task*. *Expert Systems* (December, 2022) **doi:**10.1111/exsy.13213

Höffner, S, Porzel, R., **Hedblom, M.M.**, Pomarlan, M., Cangalovic, V. S., Pfau, J., Bateman, J. and Malaka, R., *Deep Understanding of Everyday Activity Commands for Household Robots*. *Semantic Web Journal* 13(5):985-909 (August, 2022). **doi:** 10.3233/SW-222973

**Hedblom, M.M.**, Kutz, O., Peñaloza, R. and Guizzardi, G., *Image schema combinations and complex events*. *Künstliche Intelligenz (Special issue on Cognitive Reasoning)* 33: 279–291 (July, 2019). **doi:** 10.1007/s13218-019-00605-1

Besold, T. R., **Hedblom, M.M.** and Kutz, O., *A narrative in three acts: Using combinations of image schemas to model events*. *Biological Inspired Cognitive Architectures* 19:10-20 (2017). **doi:** 10.1016/j.bica.2016.11.001

**Hedblom, M.M.**, Kutz, O. and Neuhaus, F., *Image schemas in computational conceptual blending*. *Cognitive Systems Research* 39:42–57 (2016). **doi:** 10.1016/j.cogsys.2015.12.010

**Hedblom, M.M.**, Kutz, O. and Neuhaus, F., *Choosing the Right Path: Image Schema Theory as a Foundation for Concept Invention*. *Journal of Artificial General Intelligence* 6(1):21–54 (2015). **doi:** 10.1515/jagi-2015-0003

### Articles in Peer-Reviewed Conference Proceedings

Pomarlan, M., **Hedblom, M.M.**, De Giorgis, S., Diab, M., and Tsiogkas, N. *Thinking in front of the box: Towards intelligent robotic action selection for navigation in complex environments using image-schematic reasoning*. In Proc. of 8th JOWO. Jönköping, Sweden (August, 2022)

Dhanabalachandran, K., **Hedblom, M.M.**, and Beetz, M., *A Balancing Act: Ordering Algorithm and Image-Schematic Action Descriptors for Stacking Object for Household Robots*, In Proc. of 8th JOWO. Jönköping, Sweden (August, 2022)

Righetti, G., Porello, D., Troquard, N., Kutz, O., **Hedblom M.M.** and Galliani, P., *Asymmetric Hybrids: Dialogues for Computational Concept Combination*. In Proc. of the 31st IJCAI - Sister Conferences Best Paper Track, pp.5329-5333. Vienna, Austria (July, 2022). doi: 10.24963/ijcai.2022/745

**Hedblom, M.M.**, and Neuhaus, F., *Visualising Image Schemas: A Preliminary Look on the Diagrammatic Image Schema Language (DISL)*, In Proc. of ISD6. Jönköping, Sweden (April, 2022)

Dhanabalachandran, K., **Hedblom, M.M.**, and Beetz, M., *Getting On Top of Things: An Extended Abstract on Robotic Object Stacking using Image-Schematic Reasoning*, In Proc. of ISD6. Jönköping, Sweden (April, 2022)

Pomarlan, M., **Hedblom, M.M.**, and Porzel, R., *Panta Rhei: Curiosity-Driven Exploration to Learn the Image-Schematic Affordances of Pouring Liquids*, In Proc. of the 29th AISC, CEUR-WS Vol 3105. Dublin, Ireland (Virtual conference) (December, 2021)

Dhanabalachandran, K., Hassouna, V., **Hedblom, M.M.**, Kuempel, M., Leusmann, N., and Beetz, M., *Cutting Events: Towards Autonomous Plan Adaption by Robotic Agents through Image-Schematic Event Segmentation*, In Proc. of The 11th Int. Conf. on Knowledge Capture (K-CAP), Virtual conference (December, 2021) doi: 10.1145/3460210.3493585

Righetti, G., Porello, D., Troquard, N., Kutz, O., **Hedblom M.M.** and Galliani, P., *Asymmetric Hybrids: Dialogues for Computational Concept Combination*. In Brodaric, B., Neuhaus, F. (eds) Formal Ontology and Information Systems (FOIS 2021) IOS Press. Bolzano, Italy (September, 2021). doi: 10.3233/FAIA210373 (Winner of the Best Paper Award)

**Hedblom M.M.**, Righetti, G., and Kutz, O., *Deciphering The Cookie Monster: A case study in impossible combinations*. In Proc. of Int. Conf. on Computational Creativity (ICCC 2021), p. 222-225. Mexico City, Mexico (Virtual conference) (September, 2021).

**Hedblom, M.M.**, Pomarlan, M., Porzel, R., Malaka, R., and Beetz, M., *Dynamic Action Selection Using Image Schema-based Reasoning for Robots*. In Proc. of 7th JOWO. Bolzano Italy (September, 2021)

**Hedblom, M.M.** and Kutz, O., *Conceptual Puzzle Pieces: An image schema experiment on object conceptualisation*. In Bella G., Bouquet P. (eds) Modeling and Using Context. CONTEXT 2019. LNCS, vol 11939. Springer, p. 98-111. Trento, Italy (November, 2019). doi: 10.1007/978-3-030-34974-5\_9

**Hedblom, M.M.** and Kutz, O., *gninaeM neddiH: Using image schema violations to expose hidden semantical structures in metaphors*. In Proc. of 5th JOWO. Graz, Austria (September, 2019)

**Hedblom, M.M.**, Kutz, O., Peñaloza R. and Guizzardi, G., *Hold—Drop—Smash: Image Schema Combinations and Complex Events*. In Proc. at AIC 2019. Manchester, UK (September, 2019)

Guizzardi, G., Figueiredo, G., **Hedblom, M.M.**, and Poels, G., *Ontology-Based Model Abstraction*. In Proc. IEEE Thirteen International Conference on Research Challenges in Information Science (RCIS), Brussel, Belgium (May, 2019). pp. 1-13 doi:10.1109/RCIS.2019.887

Verdonck, M., **Hedblom, M.M.**, Guizzardi, G., Figueiredo, G., Gailly, F., and Poels, G., *An Empirical Study Concerning Ontology-Driven Modularization and Ontology-Neutral Modularization Techniques*. In Proc. of VMBO (2019).

**Hedblom, M.M.**, Kutz, O., Peñaloza, R. and Guizzardi, G., *What's Cracking? How image schema combinations can model conceptualisations of events*. In Proc. of TriCoLore (December, 2018).

Kutz, O., Troquard, N., **Hedblom, M.M.** and Porello, D., *The Mouse and the Ball: Towards a cognitively-based and ontologically-grounded logic of agency*. In Proc. of FOIS (2018).

**Hedblom M.M.**, Peñaloza, R., Kutz, O. and Guizzardi, G., *Under the Super-Suit: What Superheroes Can Reveal About Inherited properties in Conceptual Blending*. In Proc. of ICCS, Salamanca, Spain, (2018) p. 216-223.

Figueiredo, G., Duchardt, A., **Hedblom, M.M.**, and Guizzardi, G., *Breaking into Pieces: An Ontological Approach to Conceptual Model Complexity Management*. In Proc. of RCIS. Nantes, France (2018). doi: 10.1109/RCIS.2018.8406642

**Hedblom, M.M.**, Gromann, D. and Kutz, O., *In, Out and Through: Formalising some dynamic aspects of the image schema Containment*. In Proc. of KKR@SAC, Pau, France, (2018) p. 918-925. doi: 10.1145/3167132.3167233

Gromann, D. and **Hedblom, M.M.**, *Body-Mind-Language: Multilingual Knowledge Extraction Based on Embodied Cognition*. In Proc. of AIC, CEUR-WS: Vol-2090, Lanarca, Cyprus (2017).

Gromann, D. and **Hedblom, M.M.**, *Image Schemas and Conceptual Dependency Primitives: A Comparison, Jamie Macbeth*. In Proc. of JOWO, Bolzano, Italy (2017).

**Hedblom, M.M.**, *Beneath the Paint: A Visual Journey through Conceptual Metaphor Violation*. In Proc. of 5th JOWO. Bolzano, Italy (2017).

**Hedblom, M.M.**, Kutz, O., Mossakowski, T., and Neuhaus, F., *Between Contact and Support: Introducing a logic for image schemas and directed movement*. In Proc. of AI\*IA. Bari, Italy (2017).

Gromann, D. and **Hedblom, M.M.**, *Kinesthetic Mind Reader: A Method to Identify Image Schemas in Natural Language*. In Proc. of Advancements in Cognitive Systems (ACS), Troy, New York, US (2017).

Gromann, D., **Hedblom, M.M.**, *Breaking Down Finance: A method for concept simplification by identifying movement structures from the image schema PATH-following*. In Proc. of 4th JOWO. Annecy, France (2016).

Kutz, O., Neuhaus, F., **Hedblom, M.M.**, Mossakowski, T. and Codescu, M., *Ontology Patterns with DOWL: The Case of Blending*. In Proc. of the 29th Description Logic (DL) Workshop, Cape Town (2016).

**Hedblom, M.M.** and Kutz, O., *Shape up, baby! Perception, image schemas and shapes in concept formation*. In Proc. of Shapes 3.0 Workshop, Lanarca (2015).

**Hedblom, M.M.**, Kutz, O. and Neuhaus, F., *Image schemas as families of theories*. In Proc. of C3GI Workshop, held at UNILOG, p. 19-33. Istanbul, Turkey (2015).

**Hedblom, M.M.**, Kutz, O., and Neuhaus, F., *On the cognitive and logical role of image schemas in computational conceptual blending*. In Proc. of 2nd Artificial Intelligence and Cognition workshop (AIC). Torino, p. 110-121 (2014).