



July 1983



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Prof. Dr. Ivan Habernal

Professional Appointments

Full Professor (W3)	since 04/2024
Research Center Trustworthy Data Science and Security and Ruhr-Universität Bochum, Germany	
Assistant Professor (W2) of Natural Language Processing	10/2023 — 03/2024
Paderborn University, Germany	
Interim Professorship (W2)	10/2022 — 03/2023
Ludwig-Maximilians-Universität München	
"Vertretungsprofessur" in Computational Linguistics (Hinrich Schütze, W3-Prof.)	
Independent Research Group Leader	01/2021 — 09/2023
Department of Computer Science, Technische Universität Darmstadt, Germany	
Senior Researcher	02/2020 — 12/2020
Department of Computer Science, Technische Universität Darmstadt, Germany	
Lead Data Scientist	09/2019 — 01/2020
bd4travel GmbH, Frankfurt am Main, Germany	
Data Scientist	07/2018 — 08/2019
Boehringer Ingelheim GmbH, Ingelheim am Rhein, Germany	
Post-Doctoral Researcher	01/2015 — 06/2018
Ubiquitous Knowledge Processing Lab, Technische Universität Darmstadt, Germany	
Post-Doctoral Researcher	09/2013 — 12/2014
Deutsches Institut für Internationale Pädagogische Forschung, Frankfurt, Germany	

Education

- Ph.D. in Computer Science**, University of West Bohemia, Czech Republic
 Dissertation: "Semantic Web Search Using Natural Language" 09/2012
- MSc. in Computer Science**, University of West Bohemia, Czech Republic
 Master Thesis: "Lexical Class Semantic Analysis" 06/2007

Grants

- Protecting Privacy and Sensitive Information in Texts* 2023
 Funding agency: National Research Center for Applied Cybersecurity ATHENE
Principal investigator (total 2 PIs)
 Requested funding for PI Habernal: $\approx 486\ 000\ \text{€}$
- Enabling multimodal and multilingual argument mining in court hearings* 2022
 Funding agency: The Hessian Centre for Artificial Intelligence
Principal investigator (total 2 PIs, 2 universities)
 Acquired funding: $\approx 11\ 140\ \text{€}$
- Reliable Anonymization Methods for Enabling Language Understanding Models to Assist with Air Traffic Controller Communication* 2022
 Funding agency: The Hessian Centre for Artificial Intelligence
Principal investigator (total 2 PIs, 2 universities)
 Acquired funding: $\approx 5\ 680\ \text{€}$
- PrivaLingo: Truly Privacy-Preserving Machine Translation* 2022
 Funding agency: Hessisches Ministerium des Innern und für Sport
Principal investigator (single PI)
 Acquired funding: $\approx 295\ 000\ \text{€}$
- HA 8018/2-1: Empirical Computational Argumentation in Legal Proceedings* 2022
 Funding agency: Deutsche Forschungsgemeinschaft
Principal investigator (total 2 PIs, 2 universities)
 Acquired funding for PI Habernal: $\approx 307\ 000\ \text{€}$
- RMU: Legal argument mining: Sind die Leitentscheidungen des Europäischen Gerichtshofs für Menschenrechte anders, vertiefter und besser begründet als seine weniger wichtigen Entscheidungen?* 2020
 Funding agency: RMU-Initiativfonds Forschung/Förderlinie 2
Principal investigator (total 4 PIs, 2 universities)
 Total acquired funding: $\approx 20\ 000\ \text{€}$
- DFG GU 798/20-1 ArguAna: Argumentation Analysis for the Web* 2016
 Funding agency: Deutsche Forschungsgemeinschaft
 Funding period: 1. 2. 2017 — 31. 1. 2020
 Proposal writing, main research staff
 Total acquired funding: $\approx 450\ 000\ \text{€}$
- AWS in Education Grants Program* 2015
Principal Investigator. Funding agency: Amazon
 Total acquired funding: \$10,000

Invited Talks

<i>Privacy in Natural Language Processing</i> Institute of Artificial Intelligence, Leibniz University Hannover, Germany	01/2024
<i>Privacy in Natural Language Processing: Are we there yet?</i> Austrian Research Institute for Artificial Intelligence, 2023 Fall Lecture Series, Vienna	12/2023
<i>Privacy in Generative AI: A myth or just hard?</i> 2023 Annual Conference of efl – the Data Science Institute, Frankfurt am Main	11/2023
<i>Towards Privacy-Preserving Natural Language Processing</i> Keynote Talk at Text, Speech and Dialogue conference (TSD 2023), Czech Republic	09/2023
<i>We should care about privacy-preserving NLP</i> Data Science Conference, Boehringer Ingelheim, Germany	07/2023
<i>Towards Privacy-preserving Natural Language Processing</i> Aalto University, Helsinki, Finland	03/2023
<i>Privacy-Preserving and Legal NLP</i> Thomson Reuters, Switzerland	12/2022
<i>Mining Legal Arguments in Court Decisions</i> ETH Zürich, Switzerland	11/2022
<i>Trade-Offs in Privacy-preserving NLP</i> Microsoft AI Cambridge, UK	05/2022
<i>Training Privacy-preserving NLP Models</i> Universidad de Granada, Spain	11/2021
<i>If all you have is a hammer, everything looks like a nail: SGD-DP in privacy-preserving NLP</i> School of Computing and Information Science, University of Maine	10/2021
<i>AI and Algorithms – International Summer School on “AI and Criminal Justice”</i> Luiss School of Law, Rome, Italy	07/2021
<i>Privacy-Preserving Text Classification for Graph Datasets</i> Royal Holloway, University of London	03/2021
<i>Computational Argumentation: A Journey Beyond Semantics, Logic, Opinions, and Easy Tasks</i> Computational Semantics beyond Events and Roles at NAACL 2018, New Orleans	06/2018
<i>Did you also spend the last weekend playing your NLP game?</i> Games4NLP workshop at LREC 2018, Miyazaki, Japan	05/2018
<i>Recent Trends in Computational Argumentation</i> Zayed University, Dubai, UAE	10/2017

Existing Resources for Debating Technologies

Dagstuhl Seminar on Debating Technologies, Wadern, Germany 12/2015

Machine learning for argumentation mining

2nd Workshop on Argumentation Mining, NAACL 2015, Denver, USA 06/2015

Conferences Organized

Area Chair 2024
 NAACL 2024: 2024 Annual Conference of the North American Chapter of the Association for Computational Linguistics

Area Chair 2024
 COLING-LREC 2024: The 2024 Joint International Conference on Computational Linguistics, Language Resources and Evaluation, Torino, Italy

Organizer 2024
 PrivateNLP 2024: Fifth Workshop on Privacy in Natural Language Processing, co-located with NAACL 2024, Mexico

Area Chair 2024
 EACL 2024: European Chapter of the Association for Computational Linguistics

Area Chair 2023
 ACL 2023: The 61st Annual Meeting of the Association for Computational Linguistics

Organizer 2023
 Privacy-Preserving NLP Tutorial, co-located with EACL 2023: European Chapter of the Association for Computational Linguistics

Senior Area Chair 2023
 EACL 2023: European Chapter of the Association for Computational Linguistics

Organizer 2022
 PrivateNLP 2022: Fourth Workshop on Privacy in Natural Language Processing, co-located with NAACL 2022, Seattle, Washington

Area Chair in ACL Rolling Review 2021 — 2022
 ACL 2022 and NAACL 2022: Privacy-preserving NLP

Area Chair 2021
 EMNLP 2021: The 2021 Conference on Empirical Methods in Natural Language Processing; Area: Sentiment analysis and argument mining

Area Chair 2021
 SEM 2021: The 10th Joint Conference on Lexical and Computational Semantics; Area: Semantics for NLP Applications

Tutorial Chair 2020 — 2021
 EACL 2021: European Chapter of the Association for Computational Linguistics; jointly with NAACL 2021,

ACL-JCNLP 2021, and EMNLP 2021

Co-organizer (w/ Program Chairs)

2018 — 2019

ACL 2019: 57th Annual Meeting of the Association for Computational Linguistics, Sydney, Australia; ACL is the most significant venue in computational linguistics

Main organizer

2017 — 2018

SemEval 2018: The Argument Reasoning Comprehension Task, NAACL 2018, New Orleans, USA

Program Chair

2016 — 2017

4th Workshop on Argument Mining, EMNLP 2017, Copenhagen, Denmark

Guest speaker organization: Christian Kock (Professor of Rhetoric at the Department of Media, Cognition and Communication at the University of Copenhagen)

Area Co-chair

2016

Sentiment Analysis & Computational Argumentation, COLING 2016, Osaka, Japan

Teaching

Supervision

Graduated doctoral students:

Timour Igamberdiev (Doctoral Student), *magna cum laude* 2020 — 2023

Current:

Qiankun Zheng (Doctoral Student) 2024 —

Mahammad Namazov (Doctoral Student) 2024 —

Timour Igamberdiev (Postdoctoral Researcher) 2023 —

Sebastian Ochs (Doctoral Student) 2023 —

Lena Held (Doctoral Student) 2022 —

Jesper Schlegel (Master Thesis) 2023

Leonard Bongard (Master Thesis) 2023

Niclas Kaufmann (Master Thesis) 2023

Sowmya Kamath (Master Thesis) 2023

Finished:

Marius Büttner (Master Thesis) 2023

Martin Kerscher (Master Thesis) 2023

Nina Mouhammad (Master Thesis), currently Ph.D. candidate 2022

Christopher Weiß (Master Thesis) 2022

Cleo Matzken (Master Thesis) 2022

Lijie Hu (Internship) 2022

Sudarshan Sivakumar (Internship) 2022

Lars Wolf (Master Thesis) 2022

Ying Yin (Master Thesis) 2022

Johanna Frenz (Bachelor Thesis) 2022

Sarah Lettmann (Master Thesis) 2021

Lena Held (Master Thesis) 2021

Manuel Senge (Bachelor Thesis) 2021

Daniel Faber (Master Thesis) 2021

Fabian Kaiser (Research Scholarship)	2020
Christopher Klamm (Master Thesis), currently Ph.D. candidate	2017
Patrick Pauli (Master Thesis)	2017
Christian Pollak (Master Thesis)	2016
Raffael Hannemann (Master Thesis)	2015
Omnia Zayed (Internship), Ph.D. in 2021	2015
Dicle Öztürk (Internship)	2015
Anil Narassiguin (Internship), Ph.D. in 2018	2014
Michal Patočka (Master Thesis)	2013
Tomáš Ptáček (Master Thesis, with awards), Ph.D. in 2017	2012

Courses

<i>Privacy-Preserving Natural Language Processing</i> Lecturer, Paderborn University	SoSe 2024
<i>Natural Language Processing with Deep Learning</i> Lecturer, Paderborn University	WS 2023
<i>Seminar on selected topics from Privacy-Preserving Natural Language Processing</i> Lecturer, Paderborn University	WS 2023
<i>Einführung in die Computerlinguistik</i> Lecturer; 6 CP course; 50+ students LMU München	WS 2022
<i>Deep Learning for Natural Language Processing</i> Lecturer; 6 CP course; 100+ students LMU München	WS 2022
<i>Deep Learning for Natural Language Processing</i> Lecturer; 6 CP course; 250+ students Technische Universität Darmstadt https://github.com/dl4nlp-tuda/deep-learning-for-nlp-lectures	2021 — 2023
<i>Text Analytics for Social Good</i> Seminar, Technische Universität Darmstadt	2020
<i>Theoretical Informatics</i> University of West Bohemia	2007 — 2009
Guest lectures	
<i>Guest lectures: Foundations of Language Technology</i> TU Darmstadt	2020 — 2021
<i>Guest lecture: Deep Learning for Computational Argumentation</i> Deep Learning for NLP, TU Darmstadt	07/2017
<i>Guest lecture: Argumentation Mining</i> Natural Language Processing and eLearning, TU Darmstadt	05/2015

Zeit Wissen

Richtig Streiten – Die Kunst, zu argumentieren und sich zu behaupten

12/2016

Schweizer Radio und Fernsehen

Zukunft ohne Kopfzerbrechen? Wie Maschinen bald für uns denken

01/2017

hoch3-FORSCHEN

For powerful arguments

11/2016

Languages

English, German, Czech

Publications

Google Scholar profile: <https://scholar.google.com/citations?user=ERp8VTsAAAAJ>

Journals

- [Hab+23] **Ivan Habernal**, Daniel Faber, Nicola Recchia, Sebastian Bretthauer, Iryna Gurevych, Indra Spiecker genannt Döhmann, and Christoph Burchard. “Mining Legal Arguments in Court Decisions”. In: *Artificial Intelligence and Law* (2023). DOI: 10.1007/s10506-023-09361-y.
- [HG17] **Ivan Habernal** and Iryna Gurevych. “Argumentation Mining in User-Generated Web Discourse”. In: *Computational Linguistics* 43.1 (2017), pp. 125–179.
- [HK13] **Ivan Habernal** and Miloslav Konopík. “SWSNL: Semantic Web Search Using Natural Language”. In: *Expert Systems with Applications* 40.9 (2013), pp. 3649–3664.
- [HPS14] **Ivan Habernal**, Tomáš Ptáček, and Josef Steinberger. “Supervised sentiment analysis in Czech social media”. In: *Information Processing & Management* 50.5 (2014), pp. 693–707.

Pre-prints

- [HH23] Lena Held and Ivan **Habernal**. “LaCour!: Enabling Research on Argumentation in Hearings of the European Court of Human Rights”. In: *arXiv preprint* (2023). DOI: 10.48550/arXiv.2312.05061.

Selected peer-reviewed conference papers

- [BH24] Marius Büttner and **Ivan Habernal**. “Answering legal questions from laymen in German civil law system”. In: *Proceedings of the 18th Conference of the European Chapter of the Association for Computational Linguistics (Volume 1: Long Papers)*. Ed. by Yvette Graham and Matthew Purver. St. Julians, Malta: Association for Computational Linguistics, 2024, pp. 2015–2027.
- [Hu+24] Lijie Hu, **Ivan Habernal**, Lei Shen, and Di Wang. “Differentially Private Natural Language Models: Recent Advances and Future Directions”. In: *Findings of the Association for Computational Linguistics: EACL 2024*. Ed. by Yvette Graham and Matthew Purver. St. Julians, Malta: Association for Computational Linguistics, 2024, pp. 478–499.
- [Iga+24] Timour Igamberdiev, Doan Nam Long Vu, Felix Kuennecke, Zhuo Yu, Jannik Holmer, and **Ivan Habernal**. “DP-NMT: Scalable Differentially Private Machine Translation”. In: *Proceedings of the 18th Conference of the European Chapter of the Association for Computational Linguistics: System Demonstrations*. Ed. by Nikolaos Aletras and Orphee De Clercq. St. Julians, Malta: Association for Computational Linguistics, Mar. 2024, pp. 94–105.
- [WKH24] Christopher Weiss, Frauke Kreuter, and **Ivan Habernal**. “To share or not to share: What risks would laypeople accept to give sensitive data to differentially-private NLP systems?”. In: *Proceedings of the 2024 Joint International Conference on Computational Linguistics, Language Resources and Evaluation (LREC-COLING 2024)*. Torino, Italy, 2024, (to appear).
- [IH23] Timour Igamberdiev and **Ivan Habernal**. “DP-BART for Privatized Text Rewriting under Local Differential Privacy”. In: *Findings of the Association for Computational Linguistics: ACL 2023*. Toronto, Canada: Association for Computational Linguistics, 2023, pp. 13914–13934. DOI: 10.18653/v1/2023.findings-acl.874.

- [MEH23] Cleo Matzken, Steffen Eger, and **Ivan Habernal**. “Trade-Offs Between Fairness and Privacy in Language Modeling”. In: *Findings of the Association for Computational Linguistics: ACL 2023*. Toronto, Canada: Association for Computational Linguistics, 2023, pp. 6948–6969. DOI: 10.18653/v1/2023.findings-acl.434.
- [Mou+23] Nina Mouhammad, Johannes Daxenberger, Benjamin Schiller, and **Ivan Habernal**. “Crowd-sourcing on Sensitive Data with Privacy-Preserving Text Rewriting”. In: *Proceedings of the 17th Linguistic Annotation Workshop*. Toronto, Canada: Association for Computational Linguistics, 2023, pp. 73–84.
- [Saw+23] Ramit Sawhney, Atula Tejaswi Neerkaje, **Ivan Habernal**, and Lucie Flek. “How Much User Context Do We Need? Privacy by Design in Mental Health NLP Application”. In: *Proceedings of the International AAAI Conference on Web and Social Media*. 17. Limassol, Cyprus: AAAI Press, 2023, pp. 766–776. DOI: 10.1609/icwsm.v17i1.22186.
- [BHH22] Leonard Bongard, Lena Held, and **Ivan Habernal**. “The Legal Argument Reasoning Task in Civil Procedure”. In: *Proceedings of the Natural Legal Language Processing Workshop 2022*. Abu Dhabi, United Arab Emirates: Association for Computational Linguistics, 2022, pp. 194–207.
- [Hab22] **Ivan Habernal**. “How reparametrization trick broke differentially-private text representation learning”. In: *Proceedings of the 60th Annual Meeting of the Association for Computational Linguistics (Volume 2: Short Papers)*. Dublin, Ireland: Association for Computational Linguistics, 2022, pp. 771–777. DOI: 10.18653/v1/2022.acl-short.87.
- [IAH22] Timour Igamberdiev, Thomas Arnold, and **Ivan Habernal**. “DP-Rewrite: Towards Reproducibility and Transparency in Differentially Private Text Rewriting”. In: *The 29th International Conference on Computational Linguistics*. Gyeongju, Republic of Korea: International Committee on Computational Linguistics, 2022, pp. 2927–2933.
- [IH22] Timour Igamberdiev and **Ivan Habernal**. “Privacy-Preserving Graph Convolutional Networks for Text Classification”. In: *Proceedings of the Language Resources and Evaluation Conference*. Marseille, France: European Language Resources Association, 2022, pp. 338–350.
- [SIH22] Manuel Senge, Timour Igamberdiev, and **Ivan Habernal**. “One size does not fit all: Investigating strategies for differentially-private learning across NLP tasks”. In: *Proceedings of the 2022 Conference on Empirical Methods in Natural Language Processing*. Abu Dhabi, UAE, 2022, pp. 7340–7353. DOI: 10.18653/v1/2022.emnlp-main.496.
- [YH22] Ying Yin and **Ivan Habernal**. “Privacy-Preserving Models for Legal Natural Language Processing”. In: *Proceedings of the Natural Legal Language Processing Workshop 2022*. Abu Dhabi, United Arab Emirates: Association for Computational Linguistics, 2022, pp. 172–183.
- [Hab21] **Ivan Habernal**. “When differential privacy meets NLP: The devil is in the detail”. In: *Proceedings of the 2021 Conference on Empirical Methods in Natural Language Processing*. Punta Cana, Dominican Republic: Association for Computational Linguistics, 2021, pp. 1522–1528. DOI: 10.18653/v1/2021.emnlp-main.114.
- [GHG20] Max Glockner, **Ivan Habernal**, and Iryna Gurevych. “Why do you think that? Exploring faithful sentence-level rationales without supervision”. In: *Findings of the Association for Computational Linguistics: EMNLP 2020*. Online: Association for Computational Linguistics, 2020, pp. 1080–1095.
- [Hab+18a] **Ivan Habernal**, Henning Wachsmuth, Iryna Gurevych, and Benno Stein. “Before Name-Calling: Dynamics and Triggers of Ad Hominem Fallacies in Web Argumentation”. In: *Proceedings of the 2018 Conference of the North American Chapter of the Association for Computational Linguistics: Human Language Technologies, Volume 1 (Long Papers)*. New Orleans, Louisiana: Association for Computational Linguistics, 2018, pp. 386–396.

- [Hab+18b] **Ivan Habernal**, Henning Wachsmuth, Iryna Gurevych, and Benno Stein. "SemEval-2018 Task 12: The Argument Reasoning Comprehension Task". In: *Proceedings of The 12th International Workshop on Semantic Evaluation*. New Orleans, Louisiana: Association for Computational Linguistics, 2018, pp. 763–772.
- [Hab+18c] **Ivan Habernal**, Henning Wachsmuth, Iryna Gurevych, and Benno Stein. "The Argument Reasoning Comprehension Task: Identification and Reconstruction of Implicit Warrants". In: *Proceedings of the 2018 Conference of the North American Chapter of the Association for Computational Linguistics: Human Language Technologies, Volume 1 (Long Papers)*. New Orleans, Louisiana: Association for Computational Linguistics, 2018, pp. 1930–1940.
- [Hab18] **Ivan Habernal**. "Computational Argumentation: A Journey Beyond Semantics, Logic, Opinions, and Easy Tasks". In: *Proceedings of the Workshop on Computational Semantics beyond Events and Roles*. New Orleans, USA: Association for Computational Linguistics, 2018, p. 38.
- [HPG18] **Ivan Habernal**, Patrick Pauli, and Iryna Gurevych. "Adapting Serious Game for Fallacious Argumentation to German: Pitfalls, Insights, and Best Practices". In: *Proceedings of the Eleventh International Conference on Language Resources and Evaluation (LREC 2018)*. Miyazaki, Japan: European Language Resources Association (ELRA), 2018, pp. 3329–3335.
- [Dax+17] Johannes Daxenberger, Steffen Eger, **Ivan Habernal**, Christian Stab, and Iryna Gurevych. "What is the Essence of a Claim? Cross-Domain Claim Identification". In: *Proceedings of the 2017 Conference on Empirical Methods in Natural Language Processing (EMNLP)*. Copenhagen, Denmark, 2017, pp. 2045–2056.
- [Hab+17] **Ivan Habernal**, Raffael Hannemann, Christian Pollak, Christopher Klamm, Patrick Pauli, and Iryna Gurevych. "Argotario: Computational Argumentation Meets Serious Games". In: *Proceedings of the 2017 Conference on Empirical Methods in Natural Language Processing: System Demonstrations*. Copenhagen, Denmark: Association for Computational Linguistics, 2017, pp. 7–12.
- [Wac+17] Henning Wachsmuth, Nona Naderi, **Ivan Habernal**, Yufang Hou, Graeme Hirst, Iryna Gurevych, and Benno Stein. "Argumentation Quality Assessment: Theory vs. Practice". In: *Proceedings of the 55th Annual Meeting of the Association for Computational Linguistics (Volume 2: Short Papers)*. Vancouver, Canada: Association for Computational Linguistics, 2017, pp. 250–255.
- [Hab+16] **Ivan Habernal**, Maria Sukhareva, Fiana Raiber, Anna Shtok, Oren Kurland, Hadar Ronen, Judit Bar-Ilan, and Iryna Gurevych. "New Collection Announcement: Focused Retrieval Over the Web". In: *Proceedings of the 39th International ACM SIGIR Conference on Research and Development in Information Retrieval*. Pisa, Italy: ACM, 2016, pp. 701–704.
- [HG16a] **Ivan Habernal** and Iryna Gurevych. "What makes a convincing argument? Empirical analysis and detecting attributes of convincingness in Web argumentation". In: *Proceedings of the 2016 Conference on Empirical Methods in Natural Language Processing*. Austin, Texas: Association for Computational Linguistics, 2016, pp. 1214–1223.
- [HG16b] **Ivan Habernal** and Iryna Gurevych. "Which argument is more convincing? Analyzing and predicting convincingness of Web arguments using bidirectional LSTM". In: *Proceedings of the 54th Annual Meeting of the Association for Computational Linguistics (Volume 1: Long Papers)*. Berlin, Germany: Association for Computational Linguistics, 2016, pp. 1589–1599.
- [HZG16] **Ivan Habernal**, Omnia Zayed, and Iryna Gurevych. "C4Corpus: Multilingual Web-size corpus with free license". In: *Proceedings of the 10th International Conference on Language Resources and Evaluation (LREC 2016)*. Portoroz, Slovenia: European Language Resources Association (ELRA), 2016, pp. 914–922.

- [Suk+16] Maria Sukhareva, Judith Eckle-Kohler, **Ivan Habernal**, and Iryna Gurevych. "Crowdsourcing a large dataset of domain-specific context-sensitive semantic verb relations". In: *Proceedings of the 10th International Conference on Language Resources and Evaluation (LREC 2016)*. Portoroz, Slovenia: European Language Resources Association (ELRA), 2016, pp. 2131–2137.
- [HG15] **Ivan Habernal** and Iryna Gurevych. "Exploiting Debate Portals for Semi-Supervised Argumentation Mining in User-Generated Web Discourse". In: *Proceedings of the 2015 Conference on Empirical Methods in Natural Language Processing*. Lisbon, Portugal: Association for Computational Linguistics, 2015, pp. 2127–2137.
- [HEG14] **Ivan Habernal**, Judith Eckle-Kohler, and Iryna Gurevych. "Argumentation Mining on the Web from Information Seeking Perspective". In: *Proceedings of the Workshop on Frontiers and Connections between Argumentation Theory and Natural Language Processing*. Ed. by Elena Cabrio, Serena Villata, and Adam Wyner. Bertinoro, Italy: CEUR-WS, 2014, pp. 26–39.
- [PHH14] Tomáš Ptáček, **Ivan Habernal**, and Jun Hong. "Sarcasm Detection on Czech and English Twitter". In: *Proceedings of COLING 2014, the 25th International Conference on Computational Linguistics: Technical Papers*. Dublin, Ireland: Dublin City University and Association for Computational Linguistics, 2014, pp. 213–223.
- [BH13] Tomáš Brychcín and **Ivan Habernal**. "Unsupervised Improving of Sentiment Analysis Using Global Target Context". In: *Proceedings of the International Conference Recent Advances in Natural Language Processing RANLP 2013*. Hissar, Bulgaria, 2013, pp. 122–128.
- [HB13] **Ivan Habernal** and Tomáš Brychcín. "Semantic Spaces for Sentiment Analysis". In: *Text, Speech and Dialogue*. Vol. 8082. Lecture Notes in Computer Science. Berlin Heidelberg: Springer, 2013, pp. 482–489.
- [HPS13] **Ivan Habernal**, Tomáš Ptáček, and Josef Steinberger. "Sentiment Analysis in Czech Social Media Using Supervised Machine Learning". In: *Proceedings of the 4th Workshop on Computational Approaches to Subjectivity, Sentiment and Social Media Analysis*. Atlanta, Georgia: Association for Computational Linguistics, 2013, pp. 65–74.
- [HK07] **Ivan Habernal** and Miloslav Konopík. "JAAE: The Java Abstract Annotation Editor". In: *8th Annual Conference of the International Speech Communication Association (INTERSPEECH 2007)*. Antwerp, Belgium, 2007, pp. 1298–1301.
- [HK08] **Ivan Habernal** and Miloslav Konopík. "Active Tags for Semantic Analysis". In: *Proceedings of the 11th International Conference on Text, Speech and Dialogue*. Brno, Czech Republic: Springer, 2008, pp. 69–76. ISBN: 978-3-540-87391-4.
- [HK09] **Ivan Habernal** and Miloslav Konopík. "Semantic Annotation for the LingvoSemantics Project". In: *Proceedings of the 12th International Conference on Text, Speech and Dialogue*. Plzen, Czech Republic: Springer, 2009, pp. 299–306. ISBN: 978-3-642-04208-9.
- [HK10a] **Ivan Habernal** and Miloslav Konopík. "Hybrid Semantic Analysis System – ATIS Data Evaluation". In: *Proceedings of the 6th International Conference on Advanced Data Mining and Applications*. Chongqing, China: Springer, 2010, pp. 376–386. ISBN: 978-3-642-17313-4.
- [HK10b] **Ivan Habernal** and Miloslav Konopík. "On the way towards standardized semantic corpora for development of semantic analysis systems". In: *SEMAPRO 2010: The Fourth International Conference on Advances in Semantic Processing*. Florence, Italy: IARIA, 2010, pp. 96–99. ISBN: 978-1-61208-104-5.
- [KH09] Miloslav Konopík and **Ivan Habernal**. "Hybrid Semantic Analysis". In: *Proceedings of the 12th International Conference on Text, Speech and Dialogue*. Plzen, Czech Republic: Springer, 2009, pp. 307–314. ISBN: 978-3-642-04208-9.

- [KHB10] Miloslav Konopík, **Ivan Habernal**, and Tomáš Brychcín. “N-gram language models in JLASER neural network speech recognizer”. In: *2010 International Conference on Applied Electronics*. 2010, pp. 1–4.

Book chapters

- [HDG16] **Ivan Habernal**, Johannes Daxenberger, and Iryna Gurevych. “Mass Collaboration on the Web: Textual Content Analysis by Means of Natural Language Processing”. In: *Mass Collaboration and Education*. Ed. by Ulrike Cress, Johannes Moskaliuk, and Heisawn Jeong. Vol. 16. Computer-Supported Collaborative Learning Series. Springer International Publishing, 2016, pp. 367–390. ISBN: 978-3-319-13535-9.
- [HKR12] **Ivan Habernal**, Miloslav Konopík, and Ondřej Rohlík. “Question Answering”. In: *Next Generation Search Engines. Advanced models for information retrieval*. Ed. by Christophe Jouis, Ismail Biskri, Jean-Gabriel Ganascia, and Magali Roux. IGI Global, 2012. Chap. 14, pp. 304–343.