Publications Kern

1. Geiger, B., Schrunner, S. and Kern, R. 2019. An Information-Theoretic Measure for Pattern Similarity in

Analog Wafermaps. European Advanced Process Control and Manufacturing Conference (2019).

2. Toller, M., Geiger, B.C. and Kern, R. 2019. A Formally Robust Time Series Distance Metric. MileTS’19 @

SIGKDD (2019).

3. Santos, T., Walk, S., Kern, R., Strohmaier, M. and Helic, D. 2019. Self- and Cross-Excitation in Stack Exchange

Question & Answer Communities. The World Wide Web Conference on - WWW ’19 (New York,

New York, USA, 2019), 1634–1645.

4. Kowald, D., Traub, M., Theiler, D., Gursch, H., Lindstaedt, S., Kern, R. and Lex, E. 2019. Using the

Open Meta Kaggle Dataset to Evaluate Tripartite Recommendations in Data Markets. arXiv preprint

arXiv:1908.04017. (2019).

5. Cemernek, D., Wuttei, A. and Kern, R. 2019. Cyber-Physical Systems as Enablers in Manufacturing Communication

and Worker Support. Mensch und Computer 2019 -Workshopband (2019), 481–485.

6. Schrunner, S., Jenul, A., Scheiber, M., Zernig, A., Kaestner, A. and Kern, R. 2019. A Health Factor for Process

Patterns - Enhancing Semiconductor Manufacturing by Pattern Recognition in Analog Wafermaps. 2019

IEEE International Conference on Systems, Man and Cybernetics (SMC). (2019), 3555–3560.

7. Toller, M., Santos, T. and Kern, R. 2019. SAZED: parameter-free domain-agnostic season

length estimation in time series data. Data Mining and Knowledge Discovery. (Jul. 2019).

DOI:https://doi.org/10.1007/s10618-019-00645-z.

8. Al-Ubaidi, T., Kern, R., Granitzer, M., Khodachenko, M., Helbert, J., Cox, N., Soucek, J., Fonte, S., Christou,

A. and Alexeev, I. 2019. An introduction to JRA4-Machine Learning in Europlanet-2024. EPSC. 2019, (2019),

EPSC–DPS2019.

9. Remonda, A., Krebs, S., Veas, E.E., Luzhnica, G. and Kern, R. 2019. Formula RL: Deep Reinforcement

Learning for Autonomous Racing using Telemetry Data. 2nd Scaling-Up Reinforcement Learning (SURL)

(2019).

10. Santos, T., Schrunner, S., Geiger, B.C., Pfeiler, O., Zernig, A., Kaestner, A. and Kern, R. 2019. Feature

Extraction from Analog Wafermaps: A Comparison of Classical Image Processing and a Deep

Generative Model. IEEE Transactions on Semiconductor Manufacturing. 32, 2 (May 2019), 190–198.

DOI:https://doi.org/10.1109/TSM.2019.2911061.

11. Lovrić, M., Molero, J.M. and Kern, R. 2019. PySpark and RDKit: Moving towards Big Data in Cheminformatics.

Molecular Informatics. 38, 6 (2019). DOI:https://doi.org/10.1002/minf.201800082.

12. Winter, K. and Kern, R. 2019. Know-Center at SemEval-2019 Task 5: Multilingual Hate SpeechDetection

on Twitter using CNNs. Proceedings of the Thirteenth International Workshop on Semantic Evaluation

(2019), 431–435.

13. Santos, T., Walk, S., Kern, R., Strohmaier, M. and Helic, D. 2019. Activity Archetypes in Question-and-

Answer (Q8A) Websites—A Study of 50 Stack Exchange Instances. ACM Transactions on Social Computing.

2, 1 (Feb. 2019), 1–23. DOI:https://doi.org/10.1145/3301612.

14. Steinbauer, F., Kern, R. and Kröll, M. 2019. Chatbots Assisting German Business Management Applications.

International Conference on Industrial, Engineering and Other Applications of Applied Intelligent

Systems (2019), 717–729.

15. Al-Ubaidi, T., Khodachenko, M., Kern, R., Granitzer, M., & Poedts, S. (2018). Advanced Techniques for

Signal Search and Automatic Classification of Observational Space Data. European Planetary Science

Congress, 12, EPSC2018-844.

16. Andrusyak, B., Rimel, M., & Kern, R. (2018). Detection of Abusive Speech for Mixed Sociolects of Russian

and Ukrainian Languages. RASLAN 2018 Recent Advances in Slavonic Natural Language Processing, 77.

17. Rexha, A., Kröll, M., Dragoni, M., & Kern, R. (2018). The CLAUSY System at ESWC-2018 Challenge on

Semantic Sentiment Analysis. In D. Buscaldi, A. Gangemi, & D. Reforgiato Recupero (Eds.), Semantic Web

Challenges (pp. 186–196). Cham: Springer International Publishing.

18. Schrunner, S., Bluder, O., Zernig, A., Kaestner, A., & Kern, R. (2018). A Comparison of Supervised

Approaches for Process Pattern Recognition in Analog Semiconductor Wafer Test Data. In 2018

17th IEEE International Conference on Machine Learning and Applications (ICMLA) (pp. 820–823).

http://doi.org/10.1109/ICMLA.2018.00131

19. Neuhold, R., Gursch, H., Kern, R., & Cik, M. (2018). Driver’s dashboard – using social media data as

additional information for motorway operators. IET Intelligent Transport Systems, 12(9), 1116–1122.

http://doi.org/10.1049/iet-its.2018.5337

20. Santos, T., & Kern, R. (2018). Understanding wafer patterns in semiconductor production with variational

auto-encoders. In ESANN 2018 proceedings, European Symposium on Artificial Neural Networks, Computational

Intelligence and Machine Learning. 6doc.com.

21. Bassa, A., Kroll, M., & Kern, R. (2018). GerIE - An Open Information Extraction System for the German

Language. Journal of Universal Computer Science, 24(1), 2–24.

22. Rexha, A., Kröll, M., Ziak, H., & Kern, R. (2018). Authorship identification of documents with high content

similarity. Scientometrics, 115(1), 223–237. http://doi.org/10.1007/s11192-018-2661-6

23. Stanisavljevic, D., Rosenberger, M., Lechner, G., Körner, S., Kern, R., Jeitler, B., & Stocker, A. (2018). Ein

Industrie 4.0-Use Case in der Motorenproduktion. In R. Dachselt & G. Weber (Eds.), Mensch und Computer

2018 - Workshopband. Bonn: Gesellschaft für Informatik e.V.

24. Gursch, H., Silva, N., Reiterer, B., Paletta, L., Bernauer, P., Fuchs, M., … Kern, R. (2018). Flexible Scheduling

for Human Robot Collaboration in Intralogistics Teams. In R. Dachselt & G. Weber (Eds.), Mensch

und Computer 2018 - Workshopband (pp. 849–852). Bonn, Germany: Gesellschaft für Informatik e.V.

http://doi.org/10.18420/muc2018-ws18-0528

25. Urak, G., Ziak, H., & Kern, R. (2018). Source selection of long tail sources for federated search in an

uncooperative setting. In Proceedings of the 33rd Annual ACM Symposium on Applied Computing (pp.

720–727).

26. Rexha, A., Kröll, M., Ziak, H., & Kern, R. (2017). Extending Scientific Literature Search by Including the

Author’s Writing Style. In BIR@ ECIR (pp. 93–100).

27. Horn, C., Gursch, H., Kern, R., & Cik, M. (2017). QZtool - Automatically generated origin-destination

matrices from cell phone trajectories. In A. N. Stanton, S. Landry, G. Di Bucchianico, & A. Vallicelli (Eds.),

Advances in Intelligent Systems and Computing (Vol. 484, pp. 823–833). Cham: Springer International

Publishing. http://doi.org/10.1007/978-3-319-41682-3\_68

28. Cemernek, D., Gursch, H., & Kern, R. (2017). Big Data as a Promoter of Industry 4.0: Lessons of the

Semiconductor Industry. In IEEE 15th International Conference of Industrial Informatics - INDIN’2017

(pp. 239–244). Emden, Germany: IEEE.

29. Gursch, H., Cemernek, D., & Kern, R. (2017). Multi-Loop Feedback Hierarchy Involving Human Workers

in Manufacturing Processes. In Mensch und Computer 2017-Workshopband. Gesellschaft für Informatik

eV.

30. Toller, M., & Kern, R. (2017). Robust Parameter-Free Season Length Detection in Time Series. In MILETS17

at KDD17.

31. Ziak, H., & Kern, R. (2017). Evaluation of Contextualization and Diversification Approaches in Aggregated

Search. In 14th International Workshop on Technologies for Information Retrieval (pp. 103–107).

32. Kern, R., Falk, S., & Rexha, A. (2017). Know-Center at SemEval-2017 Task 10: Sequence Classification

with the CODE Annotator. In Proceedings of the 11th International Workshop on Semantic Evaluation

(SemEval-2017) (pp. 961–964).

33. Seifert, C., Bailer, W., Orgel, T., Gartner, L., Kern, R., Ziak, H., … Granitzer, M. (2017). Ubiquitous

Access to Digital Cultural Heritage. Journal on Computing and Cultural Heritage (JOCCH), 10(1).

http://doi.org/10.1145/3012284

34. Rexha, A., Kröll, M., Kern, R., & Dragoni, M. (2017). An embedding approach for microblog polarity classification.

In CEUR Workshop Proceedings (Vol. 1874).

35. Felber, T., & Kern, R. (2017). Graz University of Technology at CL-SciSumm 2017: Query Generation

Strategies. In The 3rd Computational Linguistics Scientific Document Summarization Shared Task (CLSciSumm

2017) (pp. 67–72).

36. Dragoni, M., Rexha, A., Ziak, H., & Kern, R. (2017). A semantic federated search engine for domainspecific

document retrieval. In Proceedings of the ACM Symposium on Applied Computing (Vol. Part

F1280). http://doi.org/10.1145/3019612.3019833

37. Schrunner, S., Bluder, O., Zernig, A., Kaestner, A., & Kern, R. (2017). Markov Random Fields for Pattern

Extraction in Analog Wafer Test Data. In International Conference on Image Processing Theory, Tools and

Applications (IPTA 2017).

38. Klampfl, S., & Kern, R. (2016). Reconstructing the Logical Structure of a Scientific Publication using Machine

Learning. In C. L. Harald Sack, Stefan Dietze, Anna Tordai (Ed.), The Semantic Web: ESWC 2016

Challenges.

39. Rexha, A., Kröll, M., Dragoni, M., & Kern, R. (2016). Exploiting propositions for opinion mining. Communications

in Computer and Information Science (Vol. 641). http://doi.org/10.1007/978-3-319-46565-4\_9

40. Pimas, O., Rexha, A., Kröll, M., & Kern, R. (2016). Profiling Microblog Authors Using Concreteness and

Sentiment. In K. Balog, L. Cappellato, N. Ferro, & C. Macdonald (Eds.), CLEF 2016 Evaluation Labs and

Workshop – Working Notes Papers, 5-8 September, Évora, Portugal. CEUR-WS.org.

41. Rexha, A., Klampfl, S., Kröll, M., & Kern, R. (2016). Towards a More Fine Grained Analysis of Scientific

Authorship: Predicting the Number of Authors Using Stylometric Features. In Proceedings of the Third

Workshop on Bibliometric-enhanced Information Retrieval co-located with the 38th European Conference

on Information Retrieval (ECIR 2016), Padova, Italy, March 20, 2016. (pp. 26–31).

42. Ziak, H., & Kern, R. (2016). KNOW At The Social Book Search Lab 2016 Suggestion Track. In Working

Notes of CLEF 2016 - Conference and Labs of the Evaluation forum.

43. Andi Rexha, M. K., & Kern, R. (2016). Social Media Monitoring for Companies: A 4W Summarisation

Approach. In D. S. Moffett & D. B. Galbraith (Eds.), Proceedings of the 17th European Conference on

Knowledge Management (ECKM) (pp. 757–762). Reading, UK: Academic Conferences and Publishing

International Limited.

44. Falk, S., Rexha, A., & Kern, R. (2016). Know-Center at SemEval-2016 Task 5: Using Word Vectors with

Typed Dependencies for Opinion Target Expression Extraction. SemEval@ NAACL-HLT.

45. Mutlu, B., Sabol, V., Gursch, H., & Kern, R. (2016). From Data to Visualisations and Back: Selecting

Visualisations Based on Data and System Design Considerations. CoRR, abs/1609.0.

46. Ziak, H., Rexha, A., & Kern, R. (2016). KNOW At The Social Book Search Lab 2016 Mining Track. In

Working Notes of CLEF 2016 - Conference and Labs of the Evaluation forum.

47. Santos, T., & Kern, R. (2016). A Literature Survey of Early Time Series Classification and Deep Learning.

In R. Kern, G. Reiner, & O. Bluder (Eds.), International Workshop on Science, Application and Methods in

Industry 4.0 (pp. 31–38). Aachen.

48. Ziak, H., & Kern, R. (2016). Query Splitting For Context-Driven Federated Recommendations. In 13th

International Workshop on Text-based Information Retrieval (TIR 16) at DEXA.

49. Gursch, H., Körner, S., Krasser, H., & Kern, R. (2016). Parameter Forecasting for Vehicle Paint Quality

Optimisation. In B. Weyers & A. Dittmar (Eds.), Mensch und Computer 2016 – Workshopband. Aachen:

Gesellschaft für Informatik e.V. http://doi.org/10.18420/muc2016-ws04-0003

50. Rexha, A., Dragoni, M., Kern, R., & Kröll, M. (2016). An Information Retrieval Based Approach for Multilingual

Ontology Matching. In E. Métais, F. Meziane, M. Saraee, V. Sugumaran, & S. Vadera (Eds.), Natural

Language Processing and Information Systems: 21st International Conference on Applications of Natural

Language to Information Systems, NLDB 2016, Salford, UK, June 22-24, 2016, Proceedings (pp. 433–439).

Cham: Springer International Publishing. http://doi.org/10.1007/978-3-319-41754-7\_45

51. Gursch, H., Ziak, H., Kröll, M., & Kern, R. (2016). Context-driven federated recommendations for knowledge

workers. In Proceedings of the European Conference on Knowledge Management, ECKM (Vol. 2016–

Janua).

52. Gursch, H., & Kern, R. (2016). Internet of Things meets Big Data: An Infrastructure to Collect, Connect,

and Analyse Sensor Data. In VDE Kongress 2016: Internet der Dinge (pp. 1–6). VDE Verlag GmbH, Berlin

- Offenbach.

53. Klampfl, S., Rexha, A., & Kern, R. (2016). Identifying Referenced Text in Scientific Publications by Summarisation

and Classification Techniques. In G. Cabanac, M. K. Chandrasekaran, I. Frommholz, K. Jaidka,

M.-Y. Kan, P. Mayr, & D. Wolfram (Eds.), Proceedings of the Joint Workshop on Bibliometric-enhanced

Information Retrieval and Natural Language Processing for Digital Libraries (BIRNDL).

54. Pimas, O., Klampfl, S., Kohl, T., Kern, R., & Kröll, M. (2016). Generating Tailored Classification Schemas for

German Patents. In E. Métais, F. Meziane, M. Saraee, V. Sugumaran, & S. Vadera (Eds.), Natural Language

Processing and Information Systems: 21st International Conference on Applications of Natural Language

to Information Systems, NLDB 2016, Salford, UK, June 22-24, 2016, Proceedings (pp. 230–238). Cham:

Springer International Publishing. http://doi.org/10.1007/978-3-319-41754-7\_20

55. Urak, G., Ziak, H., & Kern, R. (2016). Do Ambiguous Words Improve Probing for Federated Search?

In N. Fuhr, L. Kovács, T. Risse, & W. Nejdl (Eds.), Research and Advanced Technology for Digital Libraries:

20th International Conference on Theory and Practice of Digital Libraries, TPDL 2016, Hannover,

Germany, September 5–9, 2016, Proceedings (pp. 438–441). Cham: Springer International Publishing.

http://doi.org/10.1007/978-3-319-43997-6\_39

56. Rexha, A., Kröll, M., & Kern, R. (2016). Polarity Classification for Target Phrases in Tweets: A Word2Vec

approach. In Semantic Sentiment Analysis Workshop.

57. Klampfl, S., & Kern, R. (2015). Machine Learning Techniques for Automatically Extracting Contextual

Information from Scientific Publications. In Semantic Web Evaluation Challenge (Semantic Publishing

Challenge, ESWC 2015).

58. Schulze, G., Horn, C., & Kern, R. (2015). Map-Matching Cell Phone Trajectories of Low Spatial and Temporal

Accuracy. In 2015 IEEE 18th International Conferenc e on Intelligent Transportation Systems (pp.

2707–2714). IEEE. http://doi.org/10.1109/ITSC.2015.435

59. Ziak, H., & Kern, R. (2015). Evaluation of Pseudo Relevance Feedback Techniques for Cross Vertical Aggregated

Search. In Lecture Notes in Computer Science (pp. 91–102). Springer. http://doi.org/10.1007/978-3-

319-24027-5\_8

60. Rubien, R., Ziak, H., & Kern, R. (2015). Efficient Search Result Diversification via Query Expansion Using

Knowledge Bases. In Proceedings of 12th International Workshop on Text-based Information Retrieval

(TIR).

61. Pimas, O., Kröll, M., & Kern, R. (2015). Know-Center at PAN 2015 author identification. Working Notes

Papers of the CLEF.

62. Frey, M., & Kern, R. (2015). Efficient Table Annotation for Digital Articles. D-Lib Magazine, 21(11/12).

http://doi.org/10.1045/november2015-frey

63. Gursch, H., Ziak, H., & Kern, R. (2015). Unified Information Access for Knowledge Workers via a Federated

Recommender System. In Mensch und Computer 2015–Workshopband.

64. Rexha, A., Klampfl, S., Kröll, M., & Kern, R. (2015). Towards Authorship Attribution for Bibliometrics using

Stylometric Features. In Mining Scientific Papers: Computational Linguistics and Bibliometrics.

65. Horn, C., & Kern, R. (2015). Deriving public transportation timetables with large-scale cell phone data. In

Procedia Computer Science (Vol. 52). http://doi.org/10.1016/j.procs.2015.05.026

66. Klampfl, S., Jack, K., & Kern, R. (2014). A Comparison of Two Unsupervised Table Recognition Methods

from Digital Scientific Articles. D-Lib Magazine, 20(11), 7.

67. Gursch, H., Zoier, M., Zechner, M., & Kern, R. (2014). Beyond Search – How Modern Information Retrieval

Techniques Make Knowledge Accessible. In Conference Proceedings - Grazer Symposium Virtuelles

Fahrzeug.

68. Zoier, M., Rosenberger, M., Marko, N., Softic, S., Kaiser, C., Fachbach, B., … Stocker, A. (2014). Konzeption

einer Architektur für flexible Suche und Informationsvernetzung in der Fahrzeugentwicklung. In 3. DGIKonferenz

2014.

69. López-García, P., Kern, R., Jack, K., & Hristakeva, M. (2014). citation needed: Filling in Wikipedia’s Citation

Shaped Holes. In Bibliometric-enhanced Information Retrieval @ ECIR European conference on

Information Retireval.

70. Kroell, M., Schulze, G., & Kern, R. (2014). A Study of Scientific Writing: Comparing Theoretical Guidelines

with Practical Implementation. In COLING Workshop on Synchronic and Diachronic Approaches to

Analyzing Technical Language.

71. López-garcía, P., Schulz, S., & Kern, R. (2014). Automatic Summarization for Terminology Recommendation:

the case of the NCBO Ontology Recommender. In International SWAT4LS Workshop.

72. Kröll, M., Klampfl, S., & Kern, R. (2014). Towards a Marketplace for the Scientific Community: Accessing

Knowledge from the Computer Science Domain. D-Lib Magazine, 20(11), 10.

73. Klampfl, S., Granitzer, M., Jack, K., & Kern, R. (2014). Unsupervised document structure analysis of digital

scientific articles. International Journal on Digital Libraries, 14(3–4), 83–99. http://doi.org/10.1007/s00799-

014-0115-1

74. Stegmaier, F., Seifert, C., Kern, R., Höfler, P., Bayerl, S., Granitzer, M., … Zwicklbauer, S. (2014). Unleashing

semantics of research data. Lecture Notes in Computer Science (including subseries Lecture Notes in

Artificial Intelligence and Lecture Notes in Bioinformatics) (Vol. 8163 LNCS). http://doi.org/10.1007/978-

3-642-53974-9\_10

75. Stocker, A., Zoier, M., Softic, S., Paschke, S., Bischofter, H., & Kern, R. (2014). Is Enterprise Search Useful

at All?: Lessons Learned from Studying User Behavior. In Proceedings of the 14th International Conference

on Knowledge Technologies and Data-driven Business (p. 22:1–22:8). New York, NY, USA: ACM.

http://doi.org/10.1145/2637748.2638425

76. Schlötterer, J., Seifert, C., Kern, R., & Granitzer, M. (2014). From Tail to Head: Browser Based Suggestion

of Long-tail Resources.

77. Kern, R., Jack, K., & Granitzer, M. (2014). Recommending Scientific Literature: Comparing Use-Cases and

Algorithms. CoRR, abs/1409.1.

78. Seifert, C., Ulbrich, E., Kern, R., & Granitzer, M. (2013). Text representation for efficient document annotation.

Journal of Universal Computer Science, 19(3).

79. Seifert, C., Granitzer, M., Höfler, P., Mutlu, B., Sabol, V., Schlegel, K., … Kern, R. (2013). Crowdsourcing fact

extraction from scientific literature. Lecture Notes in Computer Science (including subseries Lecture Notes

in Artificial Intelligence and Lecture Notes in Bioinformatics) (Vol. 7947 LNCS). http://doi.org/10.1007/978-

3-642-39146-0\_15

80. Kern, R. (2013). Grammar checker features for author identification and author profiling: Notebook for

PAN at CLEF 2013. In CEUR Workshop Proceedings (Vol. 1179).

81. Kern, R., & Klampfl, S. (2013). Extraction of References Using Layout and Formatting Information from

Scientific Articles. D-Lib Magazine, 19(9/10). http://doi.org/10.1045/september2013-kern

82. Kröll, M., Sabol, V., Kern, R., & Granitzer, M. (2013). Integrating User Preferences Into Distance Metrics.

In Proceedings of the LWA2013 Workshop on Knowledge Discovery, Data Mining and Machine Learning.

83. Klampfl, S., & Kern, R. (2013). An Unsupervised Machine Learning Approach to Body Text and Table of

Contents Extraction from Digital Scientific Articles. In International Conference on Theory and Practice

of Digital Libraries 2013 (TPDL 2013). http://doi.org/10.1007/978-3-642-40501-3\_15

84. Ziak, H., & Kern, R. (2013). KnCe2013-CORE: Semantic Text Similarity by use of Knowledge Bases. In

Second Joint Conference on Lexical and Computational Semantics (\*SEM) (pp. 138–142).

85. Zechner, M., Klampfl, S., & Kern, R. (2013). Exploiting Wiktionary for Lightweight Part-of-Speech Tagging

for Machine Learning Tasks. In In 2nd International Conference on Data Analytics.

86. Horn, C., Zhila, A., Gelbukh, A., Kern, R., & Lex, E. (2013). Using Factual Density to Measure Informativeness

of Web Documents. In In the 19th Nordic Conference of Computational Linguistics.

87. Kern, R., Klampfl, S., & Zechner, M. (2012). Vote / Veto Classification , Ensemble Clustering and Sequence

Classification for Author Identification. In 4th International Competition on Plagiarism Detection.

88. Granitzer, M., Hristakeva, M., Knight, R., Jack, K., & Kern, R. (2012). A comparison of layout based

bibliographic metadata extraction techniques. In ACM International Conference Proceeding Series.

http://doi.org/10.1145/2254129.2254154

89. Kern, R. (2012). A Feature Association Framework for Knowledge Discovery Applications. Technical University

Graz.

90. Strohmaier, M., Körner, C., & Kern, R. (2012). Understanding why users tag: A survey of tagging motivation

literature and results from an empirical study. Web Semantics: Science, Services and Agents on the World

Wide Web, 17, 1–11.

91. Kern, R., Jack, K., Hristakeva, M., & Granitzer, M. (2012). Teambeam - meta-data extraction from scientific

literature. D-Lib Magazine, 18(7–8). http://doi.org/10.1045/july2012\_kern

92. Strohmaier, M., Helic, D., Benz, D., Koerner, C., & Kern, R. (2012). Evaluation of Folksonomy Induction

Algorithms. Transactions on Intelligent Systems and Technology (ACM TIST)Tions on Intelligent Systems

and Technology (ACM TIST).

93. Granitzer, M., Hristakeva, M., Knight, R., Jack, K., & Kern, R. (2012). A Comparison of Layout based Bibliographic

Metadata Extraction Techniques. In WIMS’12 - International Conference on Web Intelligence,

Mining and Semantics (p. toappear). ACM New York, NY, USA.

94. Sabol, V., Kern, R., Kump, B., Pammer, V., & Granitzer, M. (2011). Knowledge Extraction and Integration

using Automatic and Visual Methods. In Position paper at PlanetData Project Strategic Workshop for Call

2.

95. Kern, R., Zechner, M., & Granitzer, M. (2011). Model selection strategies for author disambiguation.

In Proceedings - International Workshop on Database and Expert Systems Applications, DEXA.

http://doi.org/10.1109/DEXA.2011.54

96. Kern, R., Seifert, C., & Granitzer, M. (2011). A hybrid system for German encyclopedia alignment. International

Journal on Digital Libraries, 11(2), 75–89. http://doi.org/10.1007/s00799-011-0069-5

97. Kern, R., Seifert, C., Zechner, M., & Granitzer, M. (2011). Vote/Veto Meta-Classifier for Authorship Identification.

In In 3nd International Competition on Plagiarism Detection.

98. Strohmaier, M., Körner, C., & Kern, R. (2010). Why do Users Tag? Detecting Users’ Motivation for Tagging

in Social Tagging Systems. In International AAAI Conference on Weblogs and Social Media (ICWSM2010).

99. Körner, C., Kern, R., Grahsl, H.-P., & Strohmaier, M. (2010). Of categorizers and describers: An evaluation

of quantitative measures for tagging motivation. In HT ’10: Proceedings of the 21st ACM Conference on

Hypertext and Hypermedia (pp. 157–166). http://doi.org/10.1145/1810617.1810645

100. Kern, R., Körner, C., & Strohmaier, M. (2010). Exploring the Influence of Tagging Motivation

on Tagging Behavior. In Research and Advanced Technology for Digital Libraries (pp. 461–465).

http://doi.org/10.1007/978-3-642-15464-5\_57

101. Kern, R., Muhr, M., & Granitzer, M. (2010). KCDC: Word sense induction by using grammatical dependencies

and sentence phrase structure. In ACL 2010 - SemEval 2010 - 5th International Workshop on Semantic

Evaluation, Proceedings.

102. Kern, R., & Granitzer, M. (2010). German Encyclopedia Alignment Based on Information Retrieval Techniques.

In M. Lalmas, J. Jose, A. Rauber, F. Sebastiani, & I. Frommholz (Eds.), Research and Advanced

Technology for Digital Libraries (pp. 315–326). Springer Berlin / Heidelberg. http://doi.org/10.1007/978-3-

642-15464-5\_32

103. Muhr, M., Kern, R., Zechner, M., & Granitzer, M. (2010). External and Intrinsic Plagiarism Detection using a

Cross-Lingual Retrieval and Segmentation System Lab Report for PAN at CLEF 2010. In 2nd International

Competition on Plagiarism Detection.

104. Muhr, M., Kern, R., & Granitzer, M. (2010). Analysis of structural relationships for hierarchical cluster

labeling. In Proceeding of the 33rd international ACM SIGIR conference on Research and development

in information retrieval - SIGIR ’10 (p. 178). New York, New York, USA: ACM Press.

http://doi.org/10.1145/1835449.1835481

105. Kern, R., & Granitzer, M. (2009). Efficient linear text segmentation based on information retrieval techniques.

In MEDES ’09: Proceedings of the International Conference on Management of Emergent Digital

EcoSystems (pp. 167–171). http://doi.org/http://doi.acm.org/10.1145/1643823.1643854

106. Klieber, W., Sabol, V., Kern, R., Muhr, M., & Granitzer, M. (2009). Using Ontologies For Software Documentation.

In Proc Malaysian Joint Conference on Artificial Intelligence MJCAI2009.

107. Zechner, M., Muhr, M., Kern, R., & Granitzer, M. (2009). External and intrinsic plagiarism detection using

vector space models. In CEUR Workshop Proceedings (Vol. 502).

108. Klieber, W., Sabol, V., Muhr, M., Kern, R., Öttl, G., & Granitzer, M. (2009). Knowledge discovery using the

KnowMiner framework. In IADIS International Conference Information Systems.

109. Kern, R., Juffinger, A., & Granitzer, M. (2009). Application of axiomatic approaches to cross language

retrieval. In CEUR Workshop Proceedings (Vol. 1175).

110. Kern, R., Juffinger, A., & Granitzer, M. (2009). Evaluation of Axiomatic Approaches to Crosslanguage

Retrieval. In Multilingual Information Access Evaluation Vol. I Text Retrieval Experiments.

http://doi.org/10.1007/978-3-642-15754-7\_17

111. Scheir, P., Ghidini, C., Kern, R., Granitzer, M., & Lindstaedt, S. N. (2009). ARS/SD: An associative

retrieval service for the semantic desktop. Studies in Computational Intelligence (Vol. 221).

http://doi.org/10.1007/978-3-642-02184-8\_7

112. Kern, R., Granitzer, M., & Pammer, V. (2008). Extending folksonomies for image tagging. In WIAMIS 2008

- Proceedings of the 9th International Workshop on Image Analysis for Multimedia Interactive Services.

http://doi.org/10.1109/WIAMIS.2008.43

113. Lindstaedt, S., Pammer, V., Moerzinger, R., Kern, R., Mülner, H., & Wagner, C. (2008). Recommending

tags for pictures based on text, visual content and user context. In Proceedings of the Third International

Conference on Internet and Web Applications and Services (ICIW 2008) (pp. 506–511). IEEE Computer

Society Press.

114. Juffinger, A., Kern, R., & Granitzer, M. (2008). Crosslanguage Retrieval based on Wikipedia Statistics.

In Proceedings of 8th Workshop of the Cross-Language Evaluation Forum, CLEF 2008, 17-19 September,

Aarhus, Denmark.

115. Juffinger, A., Kern, R., & Granitzer, M. (2008). Exploiting Cooccurrence on Corpus and Document Level for

Fair Crosslanguage Retrieval. In Working Notes for the CLEF 2008 Workshop, 17-19 September, Aarhus,

Denmark.

116. Lux, M., Granitzer, M., & Kern, R. (2007). Aspects of Broad Folksonomies. In 18th International

Conference on Database and Expert Systems Applications DEXA 2007 (pp. 283–287). Ieee.

http://doi.org/10.1109/DEXA.2007.80

117. Juffinger, A., Neidhart, T., Weichselbraun, A., Wohlgenannt, G., Granitzer, M., Kern, R., & Scharl, A. (2007).

Distributed Web2.0 crawling for ontology evolution. In Proc 2nd International Conference on Digital Information

Management ICDIM 07 (Vol. 2, pp. 615–620). Ieee. http://doi.org/10.1109/ICDIM.2007.4444293

118. Klieber, W., Granitzer, M., Sabol, V., Kienreich, W., & Kern, R. (2006). KnowMiner: Ein service orientiertes

knowledge discovery framework. In Berliner XML Tage.