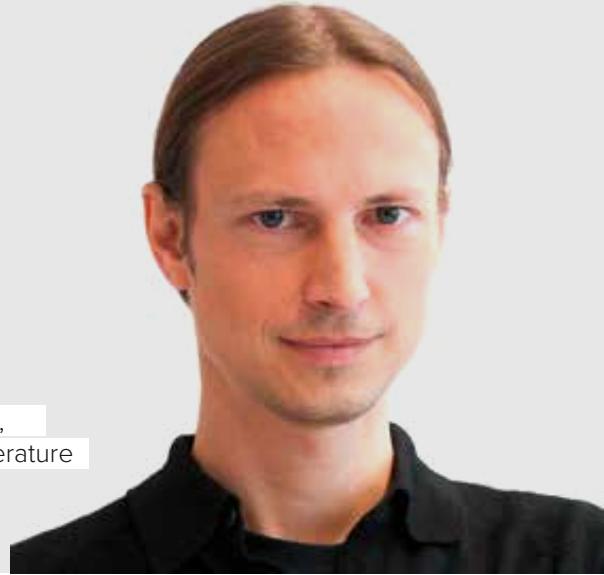# KNOW Center

Dipl.-Ing. Dr. techn.
ROMAN **KERN**

🔍 **AREA HEAD** „Knowledge Discovery"

FORSCHUNGSINTERESSEN

Information Retrieval, Machine Learning, Natural Language Processing,
Data Analytics, Intelligent Transportation Systems, Mining Scientific Literature

BERUFSERFAHRUNG

Seit 2006	Know-Center GmbH, Area Head Knowledge Discovery
Seit 2015	Technische Universität Graz, Assistenzprofessor, Knowledge Technologies Institute, TU Graz
2011 – 2012	Mendeley Ltd. (UK), Visiting Researcher, Marie Curie Fellow
2008 – 2012	Technische Universität Graz, Senior Researcher, Knowledge Technologies Institute, TU Graz
2001 – 2006	Hyperwave AG
1996 – 2001	Daimler-Chrylser

AUSBILDUNG

2008 – 2012	Technische Universität Graz, Doktorat in Informatik
1992 - 2002	Technische Universität Graz, Dipl.-Ing. der Telematik

AUSZEICHNUNG

2013	Best Paper Award auf der Konferenz «Theory and Practice of Digital Libraries (TPDL)»
2012	Best Paper Award im Workshop «Mining Scientific Publications (WOSP) »

PROJEKTE

TEAM	Position: Koordinator, Marie-Curie IAPP, http://team-project.tugraz.at/
SemI40	Position: Arbeitspaketleiter, ESCEL
EEXCESS	Position: Arbeitspaketleiter, FP7, http://eexcess.eu/
CODE	Position: Arbeitspaketleiter, FP7, http://code-research.eu/

* RESys: Position: Arbeitspaketleiter, FFG
* NawiMOP: Klima & Energiefond
* AGETOR: KIRAS
* DIANGO: KIRAS
* DIANA: KIRAS

AUSGEWÄHLTE PUBLIKATIONEN

1. S. Klampfl and R. Kern, "An Unsupervised Machine Learning Approach to Body Text and Table of Contents Extraction from Digital Scientific Articles." 2013.

2. G. Schulze, C. Horn, and R. Kern, "Map-Matching Cell Phone Trajectories of Low Spatial and Temporal Accuracy," in 2015 IEEE 18th International Conference on Intelligent Transportation Systems, 2015, pp. 2707–2714.

3. R. Kern, K. Jack, M. Hristakeva, and M. Granitzer, "TeamBeam - Meta-Data Extraction from Scientific Literature," 2012.

4. M. Muhr, R. Kern, and M. Granitzer, "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, 2010, p. 178.

5. C. Seifert, E. Ulbrich, R. Kern, and M. Granitzer, "Text Representation for Efficient Document Annotation," Journal of Universal Computer Science, vol. 19, no. 3, pp. 383–405, Feb. 2013.

6. M. Strohmaier, C. Körner, and R. Kern, "Why do Users Tag? Detecting Users' Motivation for Tagging in Social Tagging Systems," in International AAAI Conference on Weblogs and Social Media (ICWSM2010), 2010, no. Coates 2005.

Dipl.-Ing. Dr. techn.
ROMAN **KERN**

AREA HEAD „Knowledge Discovery"

RESEARCH INTERESTS

Information Retrieval, Machine Learning, Natural Language Processing,
Data Analytics, Intelligent Transportation Systems, Mining Scientific Literature

JOB EXPERIENCES

Seit 2006	Know-Center GmbH, Area Head Knowledge Discovery
Seit 2015	Graz University of Technology, Assistant Professor at the Knowledge Technologies
2011 – 2012	Mendeley Ltd. (UK), Visiting Researcher, Marie Curie Fellow
2008 – 2012	Technische Universität Graz, Senior Researcher
2001 – 2006	Hyperwave AG
1996 – 2001	Daimler-Chrylser

EDUCATION

2008 – 2012	Graz University of Technology, PhD in Computer Science
1992 - 2002	Graz University of Technology, Master of Science („Dipl.-Ing.") in Telematics

AWARDS

2013	Best Paper Award at the conference Theory and Practice of Digital Libraries (TPDL)»
2012	Best Paper Awardat the workshop on Mining Scientific Publications (WOSP) »

PROJECTS

TEAM	Position: Koordinator, Marie-Curie IAPP, http://team-project.tugraz.at/
SemI40	Position: Arbeitspaketleiter, ESCEL
EEXCESS	Position: Arbeitspaketleiter, FP7, http://eexcess.eu/
CODE	Position: Arbeitspaketleiter, FP7, http://code-research.eu/

* RESys: Position: Arbeitspaketleiter, FFG
* NawiMOP: Klima & Energiefond
* AGETOR: KIRAS
* DIANGO: KIRAS
* DIANA: KIRAS

SELECTED PUBLICATIONS

1. S. Klampfl and R. Kern, "An Unsupervised Machine Learning Approach to Body Text and Table of Contents Extraction from Digital Scientific Articles." 2013.

2. G. Schulze, C. Horn, and R. Kern, "Map-Matching Cell Phone Trajectories of Low Spatial and Temporal Accuracy," in 2015 IEEE 18th International Conference on Intelligent Transportation Systems, 2015, pp. 2707–2714.

3. R. Kern, K. Jack, M. Hristakeva, and M. Granitzer, "TeamBeam - Meta-Data Extraction from Scientific Literature," 2012.

4. M. Muhr, R. Kern, and M. Granitzer, "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, 2010, p. 178.

5. C. Seifert, E. Ulbrich, R. Kern, and M. Granitzer, "Text Representation for Efficient Document Annotation," Journal of Universal Computer Science, vol. 19, no. 3, pp. 383–405, Feb. 2013.

6. M. Strohmaier, C. Körner, and R. Kern, "Why do Users Tag? Detecting Users' Motivation for Tagging in Social Tagging Systems," in International AAAI Conference on Weblogs and Social Media (ICWSM2010), 2010, no. Coates 2005.