

Informationswissenschaft in Regensburg

Udo Kruschwitz
Lehrstuhl für Informationswissenschaft

3. Februar 2020



Universität Regensburg

Kurzüberblick

- Lehre
- Forschung
- Forschung + Lehre

... aber erstmal ...

Brandneu ...



Suche

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Universität Regensburg



STARTSEITE UR

INSTITUT

- Aktuelles
- FÜR STUDIENINTERESSIERTE
- FÜR STUDIERENDE
- FÜR ABSOLVENTEN
- I:IMSK-FORUM
- BERATUNGSWEGWEISER
- JOBS UND PRAKTIKA

Institut

Herzlich willkommen am Institut für Information und Medien, Sprache und Kultur (I:IMSK)!

I:IMSK • Institut für Information und Medien, Sprache und Kultur



FAKULTÄT FÜR SPRACH-, LITERATUR- UND KULTURWISSENSCHAFTEN

I:IMSK

INSTITUT FÜR INFORMATION UND MEDIEN, SPRACHE UND KULTUR



Universität Regensburg
 Universitätsstraße 31
 D-93053 Regensburg

iSchool = I:IMSK

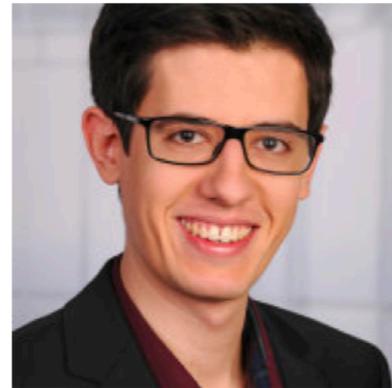
- Institut für Information und Medien, Sprache und Kultur
- Mehr als nur *Informationswissenschaft*
- Lehrstühle: komplementär + interdisziplinär
(in Forschung und Lehre)
- Gemeinsamer Nenner: *Informationsverhalten*

Lehre

Personal am Lehrstuhl



David
Elsweiler



Alexander
Frummet



Raymund
Fülöp



Udo
Kruschwitz



Bernd
Ludwig



Melanie
Kilian



Jürgen
Reischer



Manuel
Ullmann

Studiengänge

- BA Informationswissenschaft
- MA Informationswissenschaft
- Viele Wahlmöglichkeiten mit anderen Fächern, z.B. Medieninformatik
- MSc Digital Humanities mit der Medieninformatik

Studiengänge: BA

Exemplarischer Studienverlauf: Informationswissenschaft als Bachelorfach					
Studienbeginn ab WS 2017/2018					
FS	Modulposition	Lehrveranstaltung/Thema	SWS	LP	
1 (WiSe)	PI-BA-M01.1	VL Einführung in die objektorientierte Programmierung	2	4	12
	PI-BA-M01.2	Ü Einführung in die objektorientierte Programmierung	2	2	
	INF-BA-M01.1	VL Einführung in die Informationswissenschaft	2	4	
	INF-BA-M01.2	Ü Einführung in die Informationswissenschaft	2	2	
2 (SoSe)	INF-BA-M01.3	S Fallstudien	4	6	12
	INF-BA-M02.1	VL Experimentdesign	2	4	
	INF-BA-M02.2	Ü Experimentdesign	2	2	
3 (WiSe)	PI-BA-M04.1	VL Daten effizient speichern und verarbeiten	2	4	12
	PI-BA-M04.2	Ü Daten effizient speichern und verarbeiten	2	2	
	INF-BA-M03.1	S Informationsverhalten verstehen	2	4	
	INF-BA-M03.2	Ü Informationsverhalten verstehen	2	2	
4 (SoSe)	PI-BA-M03.1	VL Algorithmen und Datenstrukturen	2	4	12
	PI-BA-M03.2	Ü Algorithmen und Datenstrukturen	2	2	
	INF-BA-M06.1	VL Einführung in das Information Retrieval	2	4	
	INF-BA-M06.2	Ü Einführung in das Information Retrieval	2	2	
5 (WiSe)	INF-BA-M04.1	VL Informationslinguistik I	2	4	6
	INF-BA-M04.2	Ü Informationslinguistik I	2	2	
6 (SoSe)	INF-BA-M05.1	VL Informationslinguistik II	2	4	6
	INF-BA-M05.2	Ü Informationslinguistik II	2	2	
					60

Aktuelle Zahlen

Studienanfängerzahlen WS 2019/20 B.A.				
	Bachelorfach	Zweites Hauptfach	Nebenfach	GESAMT
AVS	22	25		47
IW	19	43	22	84
MI	81	27	21	129
MW	193	140	74	407
VKW	55	55	46	156
GESAMT		290	163	823

Studienanfängerzahlen WS 2019/20 Master	
	Master
AVS	6
DH	11
IW	2
MI	15
MW	16
VKW	9
GESAMT	59

Forschung

Forschungsgebiete (Auswahl)

- Informationsverhalten
 - ▶ Information Retrieval
 - ▶ Personalisierung
- Interaktive Assistenzsysteme
 - ▶ Fußgängernavigation
 - ▶ Chatbots
 - ▶ Personalisierte Beratungssysteme, vor allem zur Unterstützung der Ernährung
- Natürliche Sprachverarbeitung

Forschung: Informationsverhalten

Recipe 1 – Addictive Mashed Potatoes



Recipe 2 – Spruced Up Mashed Potatoes



Which recipe would you personally rather eat?

- Recipe 1
- Recipe 2

Submit

Forschung: Informationsverhalten

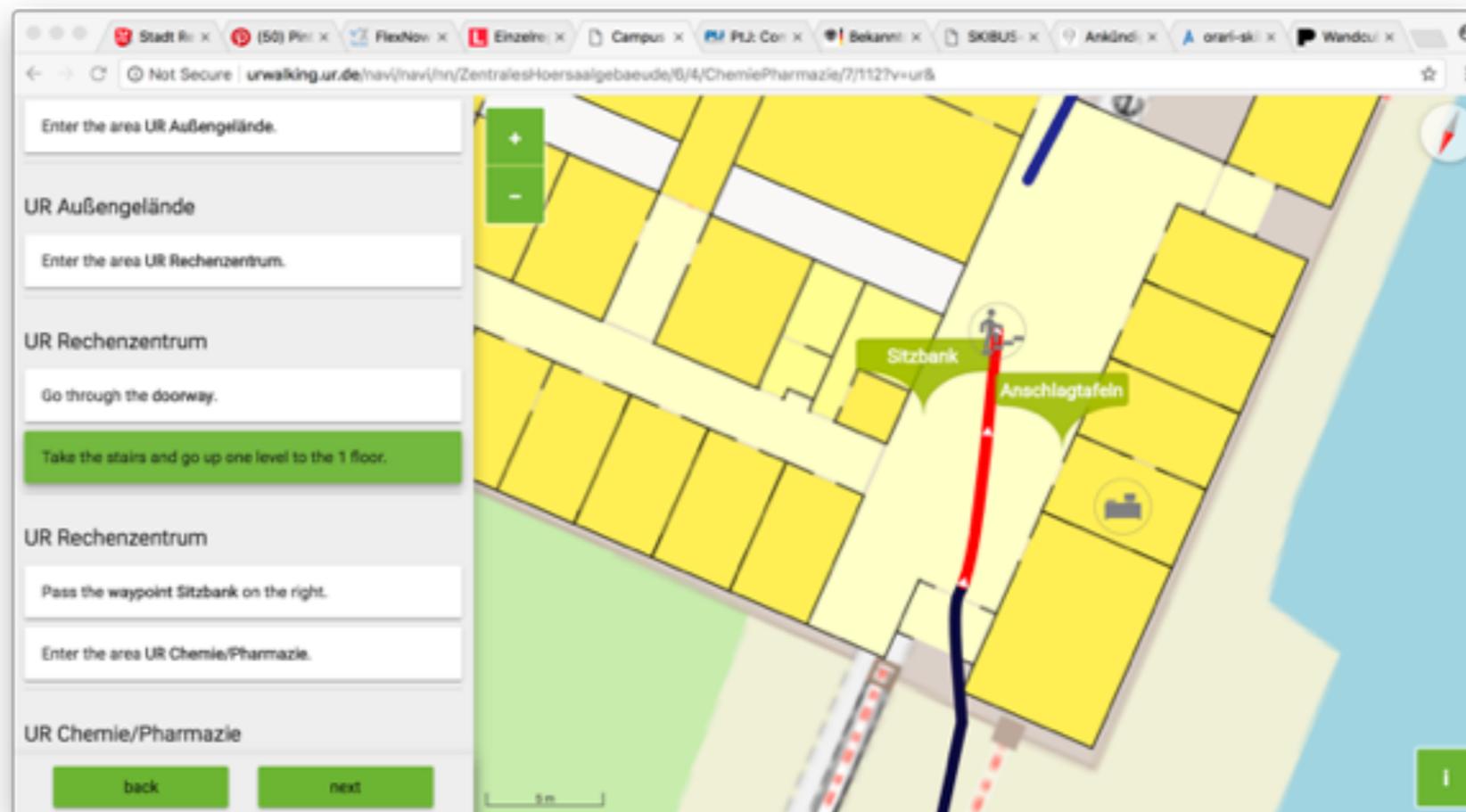
MIT-IBM Watson AI Lab *Paper Graph* Search Filters ▾ Network Flow List

Top keywords:

Recommender system, Recommendation: framework, existing, Framework, existing solutions, Existing solutions challenges, Flavour enhanced recommendation, Hierarchical attention network, Attention network visually-aware, Network visually-aware recommendation, Recommender systems: important, Systems: important contributions, Important contributions, challenges, Contributions, challenges future, Challenges future research, Future research directions, Recommendation using ontology, Using ontology heuristics, Mobile recommendation system, Recommendation system based, System based traffic, Based traffic light, Characterizing predicting repeat, Predicting repeat consumption, Repeat consumption behavior, Consumption behavior just-in-time, Behavior just-in-time interventions

<p>Top 10 Papers:</p> <p><i>Generated from citation scores of associated authors</i></p> <ul style="list-style-type: none"> Food Recommender Systems: Important Contributions, Challenges and Future Research Directions Food Recommendation: Framework, Existing Solutions and Challenges Food recognition and recipe analysis: integrating visual content, context and external knowledge A Survey on Food Computing Flavour Enhanced Food Recommendation Multi-stakeholder Recommendation and its Connection to Multi-sided Fairness Patterns of Multistakeholder Recommendation Endogenous and Exogenous Multi-Modal Layers in Context 	<p>Top 10 Authors:</p> <p><i>Ranked by total number of citations</i></p> <ul style="list-style-type: none"> Christoph Trattner David Elsweiler Shuqiang Jiang Ramesh Jain Robin Burke Ingmar Weber Xiangnan He Weiqing Min Himan Abdollahpouri Tat-seng Chua 	<p>Top 10 Organizations:</p> <p><i>Ranked by citation scores of associated authors</i></p> <ul style="list-style-type: none"> University of Regensburg Universitat Autònoma de Barcelona University of California University of Colorado Boulder DePaul University Chicago Management University Singapore Management University Singapore Management University Singapore Singapore Management University ‡ Salesforce Research Asia University of Konstanz
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Forschung: Assistenzsysteme



Forschung: Natürliche Sprachverarbeitung

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 **Expert Systems with Applications: X** 
Available online 31 January 2020, 100023
[In Press, Journal Pre-proof](#)

An NLP-Powered Human Rights Monitoring Platform

Ayman Alhelbawy ^{a, c}, Mark Lattimer ^d, Udo Kruschwitz ^a, Chris Fox ^a, Massimo Poesio ^b

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<https://doi.org/10.1016/j.eswax.2020.100023> [Get rights and content](#)
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Highlights

- A practical system for human rights monitoring combining NLP and crowdsourcing
- Mining social media offers signals for human rights abuses in addition to reports
- Deep learning outperforms traditional machine learning in our classification task
- The Ceasefire platform has been continuously applied for several years

Recommended articles
No articles found.

Citing articles (0)

Forschung: wo sind wir zu Hause?

- 2020: CHIIR
- 2019: CHIIR, SIGIR, ACL, NAACL, ECIR
- 2018: CHIIR, SIGIR, EMNLP, LREC
- 2017: CHIIR, SIGIR, WWW

Forschung + Lehre

Forschungsbasierte Lehre

- Angebotene Module
- Projektideen
- Anreizsystem

Forschungsbasierte Lehre



Sponsored by
SIGIR
Special Interest Group
on Information Retrieval

In cooperation with
 **SIGCHI**

14–18 March, 2020 • Vancouver, British Columbia, Canada



Photo Credit: Tourism Vancouver / Clayton Perry

Home

Organizers

Program v

Schedule

Accepted Papers

Accepted Papers

Go to: [Full Papers](#); [Perspective Papers](#); [Short Papers](#); [Demos](#); [Resources](#); [Links](#)

Below is the list of papers accepted to CHIIR 2020 (in no particular order). We will post the schedule of presentations, and will post that here as soon as we are able.

Full Papers

"Information needs of the end user have never been discussed" A

Conversational Agents for Recipe Recommendation
Sabrina Barko-Sherif, David Elsweiler and Morgan Harvey

Forschungsbasierte Lehre



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[European Conference on Information Retrieval](#)
ECIR 2019: [Advances in Information Retrieval](#) pp 69-85 | [Cite as](#)

Recognising Summary Articles

Authors **Authors and affiliations**

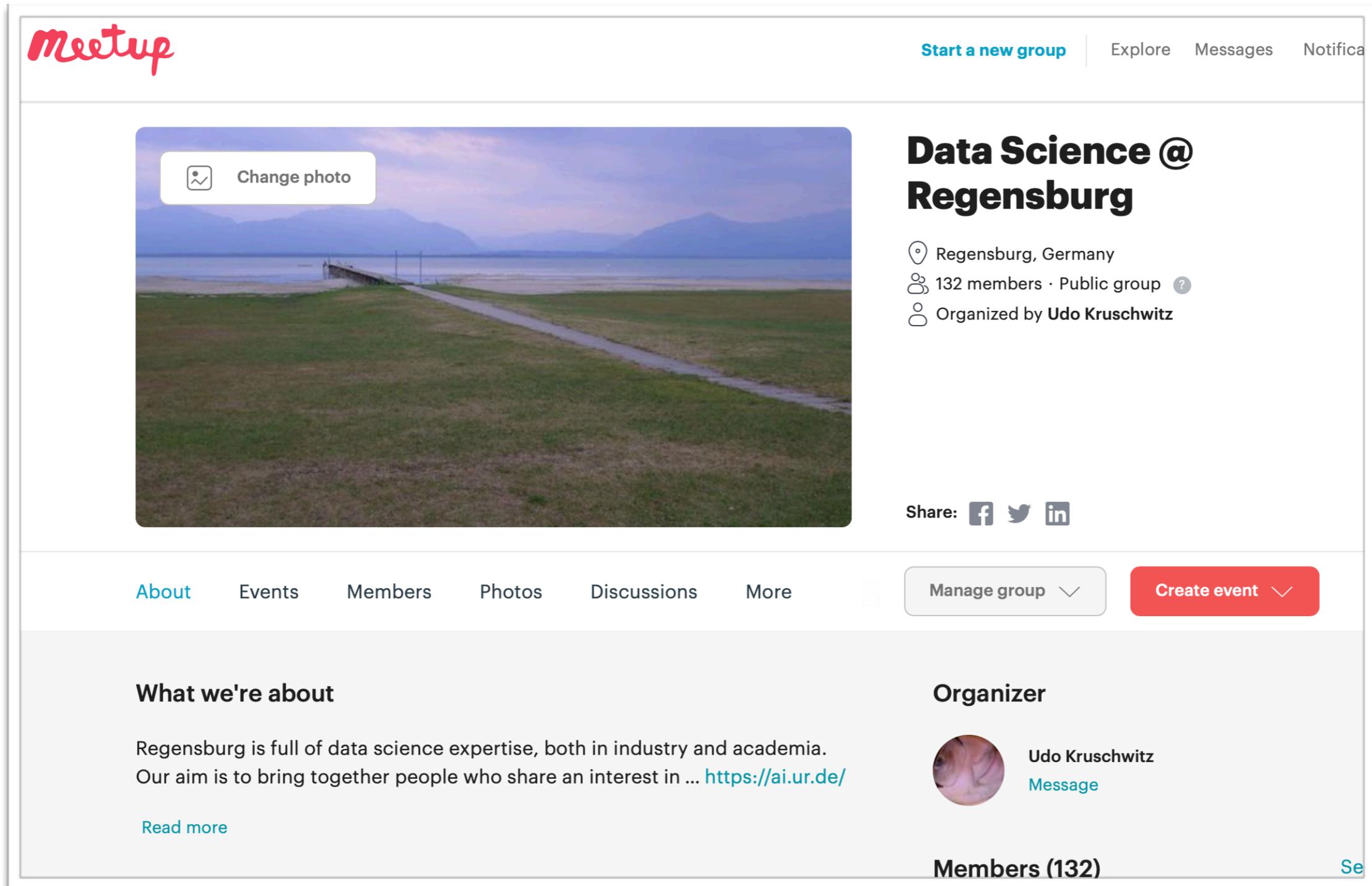
Mark Fisher	1	2	1.	School of Computer Science and Electronic Engineering, University of Essex, Colchester, UK
Dyaa Albakour	2		2.	Signal, London, UK
Email author				
Udo Kruschwitz	1			
Miguel Martinez	2			

Conference paper
First Online: 07 April 2019

1.2k
Downloads

Part of the [Lecture Notes in Computer Science](#) book series (LNCS, volume 11437)

Forschung + Lehre: Meetup



The screenshot shows the Meetup interface for the group "Data Science @ Regensburg". At the top left is the Meetup logo. On the right, there are navigation links: "Start a new group", "Explore", "Messages", and "Notifica". The main content area features a large landscape photo of a path leading to a lake with mountains in the background. A "Change photo" button is overlaid on the top left of the image. To the right of the photo, the group title "Data Science @ Regensburg" is displayed in bold. Below the title, the location "Regensburg, Germany" is shown with a location pin icon, followed by "132 members · Public group" with a help icon, and "Organized by Udo Kruschwitz" with a person icon. Below this information are social sharing icons for Facebook, Twitter, and LinkedIn. A navigation bar below the photo contains links for "About", "Events", "Members", "Photos", "Discussions", and "More". On the right side of this bar are two buttons: "Manage group" with a dropdown arrow and a red "Create event" button with a dropdown arrow. The "What we're about" section contains the text: "Regensburg is full of data science expertise, both in industry and academia. Our aim is to bring together people who share an interest in ... <https://ai.ur.de/>" and a "Read more" link. The "Organizer" section shows a profile picture of Udo Kruschwitz and a "Message" link. At the bottom right, it says "Members (132)" and a partially visible "Se" link.

Forschung + Lehre: Meetup



Forschung + Lehre: Meetup

Upcoming events (1)

[See all](#)

WED, FEB 19, 6:30 PM

Machine Learning Special!

 University of Regensburg

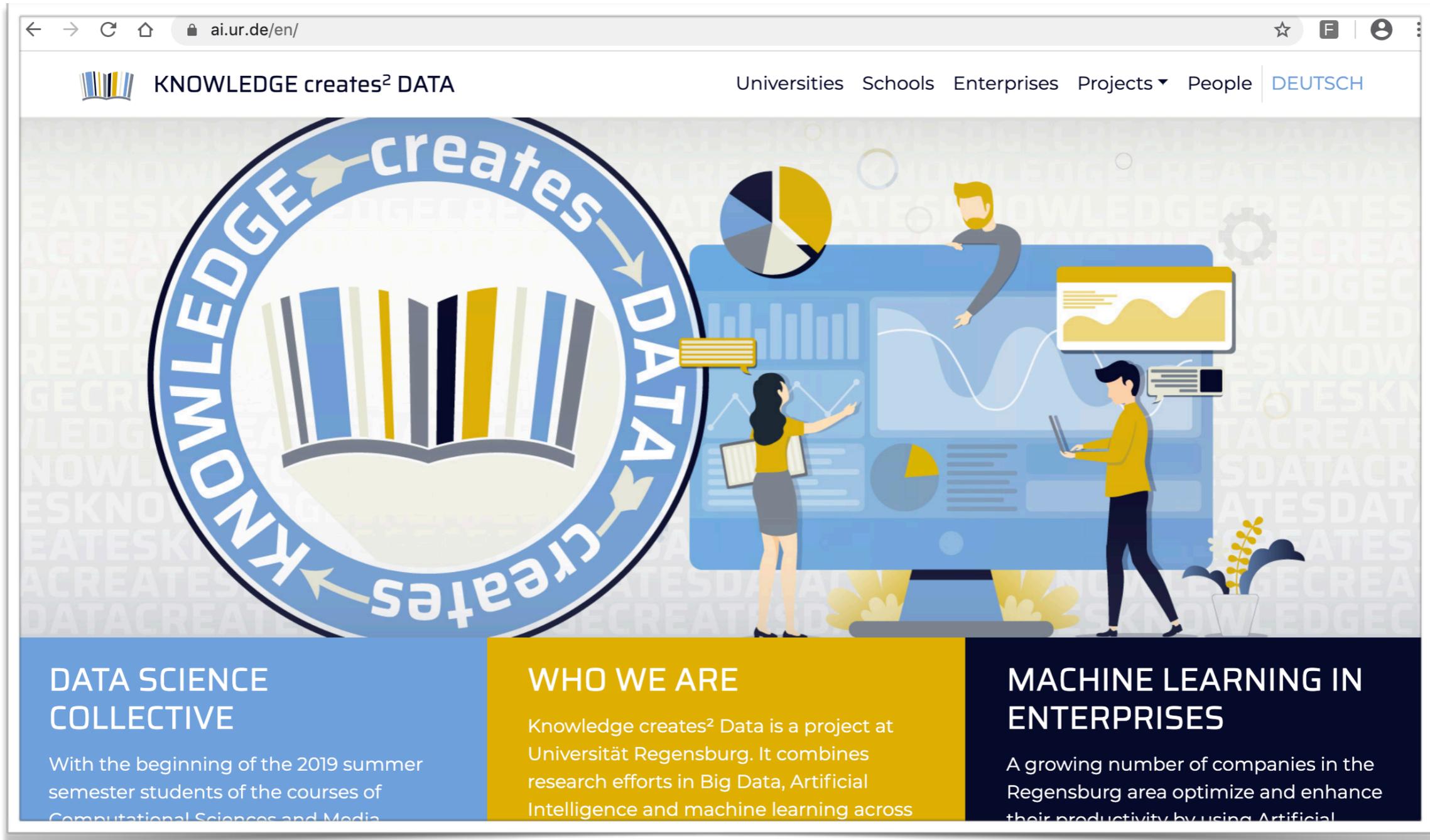
Time flies like an arrow ... we only had our January Meetup yesterday and here we go with announcing the next one ... What do we have in stock? Well, a special treat, a double gig! February will feature a Machine Learning Special. You better be quic...

 21 attendees

Manage 

 Going

Forschung + Lehre: Brückenfunktion



ai.ur.de/en/

KNOWLEDGE creates² DATA

Universities Schools Enterprises Projects ▾ People DEUTSCH

KNOWLEDGE creates DATA

DATA SCIENCE COLLECTIVE
With the beginning of the 2019 summer semester students of the courses of Computational Sciences and Media

WHO WE ARE
Knowledge creates² Data is a project at Universität Regensburg. It combines research efforts in Big Data, Artificial Intelligence and machine learning across

MACHINE LEARNING IN ENTERPRISES
A growing number of companies in the Regensburg area optimize and enhance their productivity by using Artificial

Forschung + Lehre: Brückenfunktion

WISSEN schafft² DATEN

Hochschulen Schulen Unternehmen Projekte ▾ Personen Lehre ENGLISH

LEHRVERANSTALTUNGEN AN DER UNIVERSITÄT REGENSBURG

DIGITALER ALLTAG	↔
DIGITALE WIRTSCHAFT	↔
MATHEMATISCHE GRUNDLAGEN FÜR DATA SCIENCE UND MACHINE LEARNING	↔
STATISTISCHE GRUNDLAGEN UND EXPERIMENTELLE DATENGEWINNUNG	↔
PROGRAMMIERUNG UND ALGORITHMEN	↔
INFORMATION RETRIEVAL UND NATURAL LANGUAGE ENGINEERING	↔
COMPUTATIONAL INTELLIGENCE FÜR MENSCH-MASCHINE-INTERAKTION	↔
DIGITALE MEDIZIN	↔
DIGITALE HUMANWISSENSCHAFTEN	↔
DIGITALE GEISTESWISSENSCHAFTEN	↔
DIGITALE SCHULE	↔

Forschung + Lehre: Brückenfunktion

LEHRVERANSTALTUNGEN AN DER UNIVERSITÄT REGENSBURG

DIGITALER ALLTAG 

DIGITALE WIRTSCHAFT 

MATHEMATISCHE GRUNDLAGEN FÜR DATA SCIENCE UND MACHINE LEARNING 

STATISTISCHE GRUNDLAGEN UND EXPERIMENTELLE DATENGEWINNUNG 

PROGRAMMIERUNG UND ALGORITHMEN 

INFORMATION RETRIEVAL UND NATURAL LANGUAGE ENGINEERING 

Grundlagen des Information Retrieval	V	2 SWS	Elsweiler, Kruschwitz
Übung zu Grundlagen des Information Retrieval	Ü	2 SWS	Elsweiler, Kruschwitz
Forschungspraxis des Information Retrieval	V	2 SWS	Elsweiler, Kruschwitz
Übung zu Forschungspraxis des Information Retrieval	Ü	2 SWS	Elsweiler, Kruschwitz
Informationslinguistik I	V	2 SWS	Kruschwitz, Ludwig
Übung zu Informationslinguistik I	Ü	2 SWS	Kruschwitz, Ludwig
Informationslinguistik II	V	2 SWS	Kruschwitz, Ludwig
Übung zu Informationslinguistik II	Ü	2 SWS	Kruschwitz, Ludwig

COMPUTATIONAL INTELLIGENCE FÜR MENSCH-MASCHINE-INTERAKTION 

DIGITALE MEDIZIN 

Forschung + Lehre: GGJ



Forschung + Lehre: GGJ



Global Game Jam 31 January - 02 February, 2020

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Edit my jam site



My jam site



My Profile



Log out

GGJ Regensburg (lyniat.games / Teavelop GbR / Info Science @ Uni RB) Games

Displaying 1 - 4 of 4



Anti Body Repair

You are playing an Anti-Body in a vein in the human body, trying to catch all the viruses and bacteria. The player can move with the arrow keys, can change his color



Cracky Bridge

In this game you take control over a concrete mixer. Dandelions cause some destruction of the bridge. The bridge breaks when the cracks connect the top



Fragments

A 2,5D sidescroller jump'n run. Collect heart fragments to save poor robot by jumping on platforms and exploring the game world. By using the arrow keys, you



Skillful World Fixing

Take up your role as savior of the world to fix it. You start very small and have to help forests by placing acorns in their corresponding holes (WATCH OUT FOR

Mein Hintergrund?



Mein Hintergrund?

- 1989-1995 Dipl.-Inform. Mathematische Informatik (HU Berlin)
- 1992-1993 AI + Linguistics (University of Edinburgh)
- 1995-1996 Verbmobil (HU Berlin)
- 1997-2019 University of Essex
- Seit Juli 2019 Universität Regensburg

Einige meiner Aktivitäten

- BCS Information Retrieval Specialist Group (IRSG):
Vice chair
- Panel chair Microsoft BCS/BCS IRSG Karen Spärck Jones Award (seit 2017)
- Seit 10 Jahren Mitorganisator: Search Solutions
- "Industry Days", z.B. ECIR 2019 Industry Day
- Senior PC: SIGIR, CHIIR, CIKM
- Kerninteresse: "Knowledge Transfer"

Knowledge Transfer I



Signal AI
@SignalHQ

Media monitoring, reputation management, regulatory compliance and market intelligence solutions powered by AI. Get a



Signal AI
@SignalHQ

Follow

We're so thrilled to be on the front page of @innovateuk after winning the KTP 'Best of the Best' award!

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Innovate UK



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 Innovation: apply for a funding award [↗](#)
 Events [↗](#)
 Innovation: get support and advice [↗](#)
 Innovate UK blog [↗](#)

11 November 2015 — News story
Media tracking firm wins Knowledge Transfer Partnership 2015

Signal Media and Essex University carry off 'Best of the Best' award after KTP associate joins company as head of research.

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Knowledge Transfer II

+ أبلغ عن واقعة

العربية English

iraq.ceasefire.org
 منصة آمنة للإبلاغ عن انتهاكات حقوق المدنيين في العراق

[الرئيسية](#)

[التقارير](#)

[أبلغ عن واقعة](#)

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[تويتر](#)

يمكنك الإبلاغ عن انتهاكات تحدث في أي مكان بالعراق. يتم فصل جميع البيانات الشخصية عن جميع التقارير المرسلة ومن ثم يتم تمثيلها على خريطة تفاعلية توضح توزيع تلك الانتهاكات بناءً على المكان والنوع. وتستخدم هذه التقارير التفصيلية التي تم إرسالها لرسم صورة دقيقة ومحدثة للوضع في العراق بما يساعد على تحفيز استجابة أكثر فاعلية على المستويين المحلي والدولي وكذلك تعزيز المطالبات ودعوات المسائلة للمسؤولين عن هذه الانتهاكات.

← تصفيات
فيديو صور أخبار الكل

Map data ©2020 Google, Mapa GISrael, ORION-ME شروط الاستخدام

تحديد التصنيفات [إخفاء] ↓

كل التصنيفات

- اعتداء جسدي
- تهديد أو إيذاء نفسي
- اعتداء جنسي
- انتهاكات أخرى

كيفية الإبلاغ

من خلال ملء هذه الاستمارة

بإرسال بريد إلكتروني إلى :
report@iraq.ceasefire.org

من خلال رسالة تويتر بالوسوم التالية:
[iraqceasefire#](#)
[#انتهاكات_العراق](#)

Knowledge Transfer III

Foundations and Trends® in Information Retrieval
Vol. 11, No. 1 (2017) 1–142
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now
the essence of knowledge

Searching the Enterprise

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Ausblick

- Informatikfakultät
- Brückenfunktion
- Internationalisierung
- Gemeinsame Studiengänge
- Studentenaustausch
- Gemeinsame Forschungsprojekte