

Program
DEXA2020 Conferences & Workshops
14 – 17 September 2020

a virtual conference in the Western European timezone

Day 1

Monday, 14 September 2020

Time	Track 1.1	Track 1.2	Track 1.3	Track 1.4
12:30 - 13:00	Opening Zoom link: https://jku.zoom.us/j/97628123345?pwd=Q1A2VXhZSEhKSG1PaJ1NHdsZU1Ydz09			
13:00 - 14:00	<p style="text-align: center;"><u>DEXA Session 1</u> Zoom link: https://jku.zoom.us/j/93135441508?pwd=a1hnUnZaRjNYVVFudEQ3SjlDdmFKZz09 <u>9</u> Session Chair: Nicolas Travers</p>	<p style="text-align: center;"><u>Dawak Session 1</u> Zoom link: https://jku.zoom.us/j/92582913707?pwd=aDJJREFMYStTdERodFAwVOY4MEFwQ <u>T09</u> Session Chair: Robert Wrembel</p>	<p style="text-align: center;"><u>TrustBus Session 1</u> Zoom link: https://jku.zoom.us/j/95781379053?pwd=TjF6SkJmOGtaazU1dU5JK3dwN1owQ <u>T09</u> Session Chair: Edgar R. Weippl</p>	<p style="text-align: center;"><u>EGOVIS Session 1</u> Zoom link: https://jku.zoom.us/j/98362069696?pwd=bmg5WXUydi9NQnRDcmtVWWpseFF <u>uUT09</u> Session Chair: Andrea Kó</p>
	<p style="text-align: center;">Big Data Management and Analytics</p>	<p style="text-align: center;">Position Paper and Applications</p>	<p style="text-align: center;">Cloud Security / Hardware</p>	<p style="text-align: center;">Knowledge representation and modeling in e-Government</p>
	<ul style="list-style-type: none"> • A Graph Partitioning Algorithm for Edge or Vertex Balance <i>Adnan El Moussawi, Nacéra Bennacer Seghouani and Francesca Bugiotti</i> France • DSCAN: Distributed Structural Graph Clustering for Billion-edge Graphs Hiroaki Shiokawa and Tomokatsu Takahashi Japan • Accelerating all 5-vertex subgraphs counting using GPUs Shuya Suganami, Toshiyuki Amagasa and Hiroyuki Kitagawa Japan 	<ul style="list-style-type: none"> • Analyzing the Research Landscape of DaWaK Papers from 1999 to 2019 <i>Tatsawan Timakum, Soobin Lee, Il-Yeol Song and Min Song</i> Korea, Thailand, USA • DHE2: Distributed Hybrid Evolution Engine for performance optimizations of computationally intensive applications Elena-Simona Apostol, and Ciprian-Octavian Truică Romania, Denmark • Grand Reports: A Tool for Generalizing Association Rule Mining to Numeric Target Values Sijo Arakkal Peious, Rahul Sharma, Minakshi Kaushik, Syed Attique Shah, Sadok Ben Yahia Estonia 	<ul style="list-style-type: none"> • Cloud Computing Framework for e-Health Security Requirements & Security Policy Rules Case Study: A European Cloud-based Health System Dimitra Georgiou, Costas Lambrinoudakis Greece • On the Suitability of Using SGX for Secure Key Storage in the Cloud Joakim Brorsson, Pegah Nikbakht Bideh, Alexander Nilsson, Martin Hell Sweden • Employment of Secure Enclaves in CheatDetection Hardening André Brandão, João Resende, Rolando Martins Portugal 	<ul style="list-style-type: none"> • Hybrid Refining Approach of PrOnto Ontology <i>Monica Palmirani, Giorgia Bincoletto, Valentina Leone, Salvatore Sapienza, Francesco Sovrano</i> Italy • Ranking E-government Ontologies on the Semantic Web Jean Vincent Fonou Dombeu South Africa • Framework for Data Analysis in the Context of the Smart Villages Jorge Matinez-Gil, Mario Pichler, Muhamed Turkanović, Tina Beranič, Mitja Gradisnik, Gianluca Lentini, Alessandro Luè, Guillaume Doukhan, Claire Belet, Alberto Colorni Austria, Slovenia, Italy, France

14:30 - 15:30	<p align="center">Keynote 1 and Norman Revell Best Paper Award</p> <p align="center">Zoom link: https://jku.zoom.us/j/97520205676?pwd=Szcwb1piTmJvRFAzMUJSQ1VQYW9hdz09</p> <p align="center">Session Chair: A Min Tjoa</p> <p align="center">Knowledge Graph for Drug Discovery</p> <p align="center">Ying Ding, University of Texas at Austin, USA</p>			
15:45 - 16:45	<p align="center">DEXA Session 2</p> <p align="center">Zoom link: https://jku.zoom.us/j/93135441508?pwd=alhnUnZaRjNYVVFudEQ3SjIDdmFKZz09</p> <p align="center">9</p> <p align="center">Session Chair: Dagmar Auer</p>	<p align="center">Dawak Session 2</p> <p align="center">Zoom link: https://jku.zoom.us/j/92582913707?pwd=aDJJREFMYStTdERodFAwV0Y4MEFwQ</p> <p align="center">T09</p> <p align="center">Session Chair: Oscar Romero</p>	<p align="center">TrustBus Session 2</p> <p align="center">Zoom link: https://jku.zoom.us/j/95781379053?pwd=TjF6SkJmOGtaazU1dU5JK3dwN1owQ</p> <p align="center">T09</p> <p align="center">Session Chair: Edgar R. Weippl</p>	<p align="center">EGOVIS Session 2</p> <p align="center">Zoom link: https://jku.zoom.us/j/98362069696?pwd=bmg5WXUydi9NQnRDcmtVWWpseFFuUT09</p> <p align="center">uUT09</p> <p align="center">Session Chair: Domonkos Gaspar</p>
	Consistency, Integrity, Quality of Data	Applications	Blockchain and Economics / Privacy	e-Government theoretical background
	<ul style="list-style-type: none"> • A DSL for Automated Data Quality Monitoring <i>Felix Heine, Carsten Kleiner and Thomas Oelsner Germany</i> • Fast One-to-Many Reliability Estimation for Uncertain Graphs <i>Junya Yanagisawa and Hiroaki Shiokawa Japan</i> • Quality Matters: Understanding the Impact of Incomplete Data on Visualization Recommendation <i>Rischan Mafrur, Mohamed A. Sharaf and Guido Zuccon Australia, UAE</i> 	<ul style="list-style-type: none"> • Expected vs. Unexpected: Selecting Right Measures of Interestingness <i>Rahul Sharma, Minakshi Kaushik, Sijo Arakkal Peious, Sadok Ben Yahia, Dirk Dreheim Estonia</i> • SONDER: A Data-Driven Methodology for Designing Net-Zero Energy Public Buildings <i>Ladjel Bellatreche, Felix Garcia, Don Nguyen Pham, Pedro Quintero Jimenez France, Spain</i> • Reverse engineering approach for NoSQL databases <i>Fatma Abdelhedi, Amal Ait Brahim, Rabah Tighilt Ferhat, Gilles Zurfluh France</i> 	<ul style="list-style-type: none"> • Analysis of uPort Open, an identity management blockchain-based solution <i>Andreea-Elena Panait, Ruxandra F. Olimid, Alin Stefanescu Romania</i> • SECONDO: A Platform for Cybersecurity Investments and Cyber Insurance Decisions <i>Aristeidis Farao, Sakshyam Panda, Sofia Anna Menesidou, Entso Veliou, Nikolaos Episkopos, George Kalatzantonakis, Farnaz Mohammadi, Nikolaos Georgopoulos, Michael Sirivianos, Nikos Salamanos, Spyros Loizou, Michalis Pingos, John Polley, Andrew Fielder, Emmanouil Panaousis and Christos Xenakis Greece, UK, Cyprus</i> • Are Sensor Based Business Models a Threat to Privacy: The Case Of Pay-How-Your-Drive Insurance Models <i>Christian Roth, Sebastian Aringer, Johannes Petersen, Mirja Nitschke Germany</i> 	<ul style="list-style-type: none"> • A conceptual proposal for Responsible Innovation <i>Thais Assis de Souza, Rodrigo Marçal Gandia, Bruna Habib Cavazza, André Grützmann, Isabelle Nicolai France, Brazil</i> • Towards a Process Based Approach to Address Investment Inefficiencies in Digitalization <i>Domonkos Gaspar, Katalin Ternai Hungary</i> • Event-centric Microservices for E-states <i>Dimitrios Tourgaidis, Alexandros Karakasidis Greece</i>

17:00 - 18:00	<p align="center"><u>DEXA Session 3</u> Zoom link: https://jku.zoom.us/j/93135441508?pwd=alhnUnZaRjNYVVFudEQ3SjlDdmFKZz09 <u>9</u> Session Chair: Carsten Kleiner</p>	<p align="center"><u>Dawak Session 3</u> Zoom link: https://jku.zoom.us/j/92582913707?pwd=aDJJREFMYStTdERodFAwVOY4MEFwQ <u>T09</u> Session Chair: Carlos Ordonez</p>	<p align="center"><u>MLKgraphs Session 1</u> Zoom link: https://jku.zoom.us/j/95781379053?pwd=TjF6SkJmOGtaazU1dU5JK3dwN1owQ <u>T09</u> Session Chair: Jorge Martinez-Gil</p>	<p align="center"><u>DEXA Session 4</u> Zoom link: https://jku.zoom.us/j/98362069696?pwd=bmg5WXUydi9NQnRDcmtVWWpseFFuUT09 <u>uUT09</u> Session Chair: Robert Wrembel</p>
	<p align="center">Data Analysis and Data Modeling</p>	<p align="center">Big data/Data lake and Data Mining</p>	<p align="center">Machine Learning and Knowledge Graphs</p>	<p align="center">Data Analysis and Data Modeling & Big Data Management and Analytics</p>
	<ul style="list-style-type: none"> ModelDrivenGuide: An Approach for Implementing NoSQL Schemas <i>Jihane Mali, Faten Atigui, Ahmed Azough and Nicolas Travers Morocco, France</i> Automatic schema generation for document-oriented systems <i>Paola Gómez, Rubby Casallas and Claudia Roncancio France, Colombia</i> Schedule for Detour-type Demand Bus with Regular Usage Data <i>Yuuri Sakai, Yasuhito Asano and Masatoshi Yoshikawa Japan</i> Bi-Level Associative Classifier using Automatic Learning on Rules <i>Nitakshi Sood, Leepakshi Bindra and Osmar Zaiane Canada</i> 	<ul style="list-style-type: none"> HANDLE - A Generic Metadata Model for Data Lakes <i>Rebecca Eichler, Corinna Giebler, Christoph Gröger, Holger Schwarz, Bernhard Mitschang Germany</i> A SAT-based Approach for Mining High Utility Itemsets from Transaction Databases <i>Amel Hidouri, Said Jabbour, Badran Raddaoui, Boutheina Ben Yaghlane Tunisia, France</i> High-Utility Interval-Based Sequences <i>S. Mohammad Mirbagheri, Howard J Hamilton Canada</i> 	<ul style="list-style-type: none"> Exploring the Influence of Data Aggregation in Parking Prediction <i>Shereen Elsayed, Daniela Thyssens, Shabanaz Chamurally, Arslan Tariq, Hadi Jomaa Germany</i> Building Knowledge Graph in Spark without SPARQL <i>Alex Romanova USA</i> Open Information Extraction for Knowledge Graph Construction <i>Iqra Muhammad, Anna Kearney, Carrol Gamble, Frans Coenen, and Paula Williamson UK</i> 	<ul style="list-style-type: none"> PhoenIQ: Failure-tolerant Query Processing in Multi-node Environments <i>Yutaro Bessho, Yuto Hayamizu, Kazuo Goda and Masaru Kitsuregawa Japan</i> Algebra for complex analysis of data <i>Jakub Peschel, Michal Batko and Pavel Zezula Czech Republic</i> FD-VAE: A Feature Driven VAE Architecture for Flexible Synthetic Data Generation <i>Gianluigi Greco, Antonella Guzzo and Giuseppe Nardiello Italy</i>

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Day 2

Tuesday, 15 September 2020

Time	Track 2.1	Track 2.2	Track 2.3	Track 2.4
13:00 - 14:00	<p><u>DEXA Session 5</u> Zoom link: https://jku.zoom.us/j/99425230354?pwd=Qk55blhSZkFjUHhvTU16VExrRUVVWQ T09 Session Chair: Sven Hartmann</p>	<p><u>Dawak Session 4</u> Zoom link: https://jku.zoom.us/j/94337181275?pwd=ajB6VzY2OG8rT2w5emRzU05QbENzd z09 Session Chair: Bernd Neumayr</p>	<p><u>TrustBus Session 3</u> Zoom link: https://jku.zoom.us/j/93257217023?pwd=cVR2b0c3citoR3BwZGFwSWJkZkVuUT 09 Session Chair: Christos Kalloniatis</p>	<p><u>EGOVIS Session 3</u> Zoom link: https://jku.zoom.us/j/91610385840?pwd=bGljSUs3R2VWYINjY2pWVWmNobmQr QT09 Session Chair: Tamás Molnár</p>
	Data Mining	Data Mining I	Privacy	E-Government cases - data and knowledge management
	<ul style="list-style-type: none"> • RandomLink - Avoiding Linkage-Effects by employing Random Effects for Clustering <i>Gert Sluiter, Benjamin Schelling and Claudia Plant Austria</i> • Fast and Accurate Community Search Algorithm for Attributed Graphs <i>Shohei Matsugu, Hiroaki Shiokawa and Hiroyuki Kitagawa Japan</i> 	<ul style="list-style-type: none"> • Extreme-SAX: Extreme Points Based Symbolic Representation for Time Series Classification <i>Muhammad Marwan Muhammad Fuad UK</i> • Framework to Optimize Data Processing Pipelines Using Performance Metrics <i>Fawad Ali Syed Muhammad, Robert Wrembel Poland</i> • A Scalable Randomized Algorithm for Triangle Enumeration on Graphs based on SQL Queries <i>Abir Farouzi, Ladjel Bellatreche, Carlos Ordonez, Gopal Pandurangan, Mimoun Malki France, USA, Algeria</i> 	<ul style="list-style-type: none"> • Privacy - Preserving Service Composition with Enhanced Flexibility and Efficiency <i>Kevin Theuermann, Felix Hoerandner, Andreas Abraham, Dominik Ziegler Austria</i> • An empirical Investigation of the right to explanation under GDPR in insurance <i>Jacob Dexe, Jonas Ledendal, Ulrik Franke Sweden</i> • Measuring users' socio-contextual attributes for Self-Adaptive Privacy within Cloud-Computing Environments <i>Angeliki Kitsiou, Eleni Tzortzaki, Christos Kalloniatis, Stefanos Gritzalis Greece</i> 	<ul style="list-style-type: none"> • Data acquisition for integrated coastal zone management and planning in a climate change perspective <i>Lone Hendriksen, Henning Sten Hansen, Lars Stenseng Denmark</i> • Enabling collaboration among cultural heritage experts and maritime spatial planners <i>Lise Schrøder, Marina Georgati, Henning Sten Hansen Denmark</i> • Exploring Usability and Acceptance Factors of m-Government Systems for Elderly <i>Tamas Molnar, Andrea Kő Hungary, Germany</i>

14:30 - 15:15	<p align="center">Keynote 2 Zoom link: https://jku.zoom.us/j/95131131942?pwd=UkVHOXQ2clozMiRYTk5KYjhPeIE4QT09</p> <p align="center">Session Chair: Sven Hartmann</p> <p align="center">Incremental learning and learning with drift Barbara Hammer, CITEC Centre of Excellence, Bielefeld University, Germany</p>		<p align="center">Keynote 3 Zoom link: https://jku.zoom.us/j/96441338060?pwd=eC9MNMk0MQ1BITXFzZkFIWIVXeUVvQT09</p> <p align="center">Session Chair: Josef Küng</p> <p align="center">From Sensors to Dempster-Shafer Theory and Back: The Axiom of Ambiguous Sensor Correctness and its Applications Dirk Draheim, Tallinn University of Technology, Estonia</p>	
15:30 - 16:30	<p align="center">DEXA Session 6 Zoom link: https://jku.zoom.us/j/99425230354?pwd=Qk55blhSZkFjUHBTU16VExrRUVVQT09</p> <p align="center">Session Chair: Nicolas Travers</p>	<p align="center">Dawak Session 5 Zoom link: https://jku.zoom.us/j/94337181275?pwd=ajB6VzY2OG8rT2w5emRzU05QbENzdz09</p> <p align="center">Session Chair: Uday Kiran</p>	<p align="center">TrustBus Session 4 Zoom link: https://jku.zoom.us/j/93257217023?pwd=cVR2b0c3citoR3BwZGFwSWJkZkVvUT09</p> <p align="center">Session Chair: Edgar R. Weippl</p>	<p align="center">EGOVIS Session 4 Zoom link: https://jku.zoom.us/j/91610385840?pwd=bGljSUs3R2VWYINjY2pWVmNobmQrQT09</p> <p align="center">Session Chair: Gábor Klimkó</p>
	<p align="center">Databases and Data Management</p>	<p align="center">Data Mining II</p>	<p align="center">Privacy</p>	<p align="center">Identity management and legal issues</p>
	<ul style="list-style-type: none"> Modeling and Enforcing Integrity Constraints on Graph Databases <i>Fabio Reina, Alexis Huf, Daniel Presser and Frank Siqueira</i> Brazil Bounded Pattern Matching Using Views <i>Xin Wang, Yang Wang, Ji Zhang and Yan Zhu</i> China, Australia A Framework to Reverse Engineer Database Memory by Abstracting Memory Areas <i>James Wagner and Alexander Rasin</i> USA 	<ul style="list-style-type: none"> Data Engineering for Data Science: Two Sides of the Same Coin <i>Oscar Romero, Robert Wrembel</i> Spain, Poland Mining Attribute Evolution Rules in Dynamic Attributed Graphs <i>Philippe Fournier-Viger, Ganghuan He, Jerry Chun-Wei Lin, Heitor Murilo Gomes</i> China, Norway, New Zealand Sustainable Development Goal Relational Modelling: Introducing the SDG-CAP Methodology <i>Yassir Alharbi, Frans Coenen, Daniel Arribas-Bel</i> UK 	<ul style="list-style-type: none"> Empowering Users Through a Privacy Middleware Watchdog <i>Patrícia R. Sousa, Rolando Martins, Luís Antunes</i> Portugal Utility Requirement Description for Utility-preserving and Privacy-respecting Data Pseudonymization <i>Saffija Kasem-Madani, Michael Meier</i> Germany DEFEND DSM: A Data Scope Management Service for Model-Based Privacy by Design GDPR Compliance <i>Luca Piras, Mohammed Ghazi Al-Obeidallah, Michalis Pavlidis, Haralambos Mouratidis, Aggeliki Tsohou, Emmanouil Magkos, Andrea Praitano, Annarita Iodice, Beatriz Gallego-Nicasio Cresp</i> UK, Greece, Italy, Spain 	<ul style="list-style-type: none"> Authentication of electronic legal statements by a trust service provider using two-factor dynamic handwritten signature verification <i>Péter József Kiss, Gábor Klimkó</i> Hungary Analyzing eID Public Acceptance and User Preferences for Current Authentication Options in Estonia <i>Valentyna Tsap, Silvia Lips, Dirk Draheim</i> Estonia Political Parties and Internet Voting System Adoption in Ghana <i>Samuel Agbesi</i> Denmark

16:45 - 17:45	<p align="center"><u>DEXA Session 7</u> Zoom link: https://jku.zoom.us/j/99425230354?pwd=Qk55bHhSZkFjUHBvTU16VExrRUVVWQT09</p> <p align="center">Session Chair: Michele Melchiori</p>	<p align="center"><u>Dawak Session 6</u> Zoom link: https://jku.zoom.us/j/94337181275?pwd=ajB6VzY2OG8rT2w5emRzU05QbENzdz09</p> <p align="center">Session Chair: Keeheon Lee</p>	<p align="center"><u>BIOKDD Session 1</u> Zoom link: https://jku.zoom.us/j/93257217023?pwd=cVR2b0c3citoR3BwZGFwSWJkZkVUUT09</p> <p align="center">Session Chair: Lukas Fischer</p>	<p align="center"><u>DEXA Session 8</u> Zoom link: https://jku.zoom.us/j/91610385840?pwd=bGljSU53R2VWYlNjY2pWVmNobmQrQT09</p> <p align="center">Session Chair: Leonard Tan</p>
	<p align="center">Data Mining & Databases and Data Management & Knowledge Discovery</p>	<p align="center">Data Mining & Machine Learning and Deep Learning</p>	<p align="center">Biological Knowledge Discovery from Data</p>	<p align="center">Data and Information Processing</p>
	<ul style="list-style-type: none"> • A Differential Evolution-based approach for Community Detection in multilayer networks with attributes <i>Clara Pizzuti and Annalisa Socievole Italy</i> • Collaborative SPARQL Query Processing for Decentralized Semantic Data <i>Arnaud Grall, Hala Skaf-Molli, Pascal Molli and Matthieu Perrin France</i> • On Tensor Distances For Self Organizing Maps: Clustering Cognitive Tasks <i>Georgios Drakopoulos, Ioanna Giannoukou, Phivos Mylonas and Spyros Sioutas Greece</i> 	<ul style="list-style-type: none"> • Mining Frequent Seasonal Gradual Patterns <i>Jerry Lonlac, Arnaud Doniec, Marin Lujak, Stephane Lecoeuche France</i> • Derivative, Regression and Time Series Analysis in SARS-CoV-2 <i>Pedro Furtado Portugal</i> • Building a Competitive Associative Classifiers <i>Nitakshi Sood, Osmar Zaiane Canada</i> 	<ul style="list-style-type: none"> • An in-memory cognitive-based hyperdimensional approach to accurately classify DNA-Methylation data of cancer <i>Fabio Cumbo, Emanuel Weitschek Italy</i> • TopicsRanksDC: Distance-based Topic Ranking applied on Two-Class Data <i>Malik Yousef, Jamal Al Qundus, Adrian Paschke, Silvio Peikert Israel</i> 	<ul style="list-style-type: none"> • View Selection for Graph Pattern Matching <i>Xin Wang, Xiufeng Liu, Xueyan Zhong, Ping Chengg, Ji Zhang, Yan Zhu China, Australia</i> • Extending Graph Pattern Matching with Regular Expressions <i>Xin Wang, Yang Wang, Yang Xu, Ji Zhang and Xueyan Zhong China, Australia</i> <ul style="list-style-type: none"> • Construction and Random Generation of Hypergraphs with Prescribed Degree and Dimension Sequences <i>Naheed Anjum Arafat, Debabrota Basu, Laurent Decreusefond and Stephane Bressan Singapore, Sweden, France</i>

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Day 3

Wednesday, 16 September 2020

Time	Track 3.1	Track 3.2	Track 3.3	Track 3.4
13:00 - 14:00	<p align="center"><u>DEXA Session 9</u> Zoom link: https://jku.zoom.us/j/91020136230?pwd=Z21OMTc2RVUxUlkvZ1V3UVVhMzZkdz09 dz09 Session Chair: Josef Küng</p>	<p align="center"><u>Dawak Session 7</u> Zoom link: https://jku.zoom.us/j/99208860001?pwd=OFNmdG91QW50TS9VTU43MjdYRnMrZz09 nMrZz09 Session Chair: Yongjun Zhu</p>	<p align="center"><u>DEXA Session 10</u> Zoom link: https://jku.zoom.us/j/97383274692?pwd=cmVwNzNXSGh3ZDRRZndESTNHWkt2Zz09 kt2Zz09 Session Chair: Leonard Tan</p>	<p align="center"><u>EGOVIS Session 5</u> Zoom link: https://jku.zoom.us/j/99571049608?pwd=dzh6aFdVOEUxclRoTTFLQVVZbDY1dz09 dz09 Session Chair: Enrico Francesconi</p>
	<p align="center">Cloud Databases and Workflows</p>	<p align="center">Machine Learning and Deep Learning</p>	<p align="center">Machine Learning</p>	<p align="center">Artificial intelligence and machine learning in e-Government context</p>
	<ul style="list-style-type: none"> • Distributed Caching of Scientific Workflows in Multisite Cloud <i>Gaetan Heidsieck, Daniel de Oliveira, Esther Pacitti, Christophe Pradal, François Tardieu and Patrick Valduriez France, Brazil</i> • Challenges in Resource Provisioning for the Execution of Data Wrangling Workflows on the Cloud: A Case Study <i>Abdullah Khalid A Almasaud, Agresh Bharadwaj, Sandra Sampaio and Rizos Sakellariou UK</i> • Genetic Programming Based Hyper Heuristic Approach for Dynamic Workflow Scheduling in the Cloud <i>Kirita-Rose Escott, Hui Ma and Gang Chen New Zealand</i> 	<ul style="list-style-type: none"> • Contrastive Explanations for A Deep Learning Model On Time-Series Data <i>Jokin Labaien, Ekhi Zugasti, Xabier De Carlos Spain</i> • Cyberbullying Detection in Social Networks Using Deep Learning Based Models <i>Maral Dadvar, Kai Eckert Germany</i> • Predicting Customer Churn for Insurance Data <i>Michael Scriney, Dongyun Nie, Mark Roantree Ireland</i> 	<ul style="list-style-type: none"> • MUEnsemble: Multi-ratio Undersampling-based Ensemble Framework for Imbalanced Data <i>Takahiro Komamizu, Risa Uehara, Yasuhiro Ogawa and Katsuhiko Toyama Japan</i> • The Linear Geometry Structure of Label Matrix for Multi-label Learning <i>Tianzhu Chen, Fenghua Li, Fuzhen Zhuang, Liang Fang and Yunchuan Guo China</i> • Expanding Training Set for Graph-Based Semi-Supervised Classification <i>Li Tan, Wenbin Yao and Xiaoyong Li China</i> 	<ul style="list-style-type: none"> • A Process Model for Generating and Evaluating Ideas: The Use of Machine Learning and Visual Analytics to Support Idea Mining <i>Workneh Y. Ayele, Gustaf Juell-Skielse Sweden</i> • Machine Learning or Experts Systems that is the question: which is to be used by a Public Administration <i>Ivan Futo Hungary</i>

14:30 - 15:15	<p align="center">Keynote 4 Zoom link: https://jku.zoom.us/j/98566492779?pwd=dIB2bisxUU9ySVhnVXFLRHVXVTBsdz09</p> <p align="center">Session Chair: Sven Hartmann</p>		<p align="center">Keynote 5 Zoom link: https://jku.zoom.us/j/98481395565?pwd=ZkN4NlNkd2xjR253SVlKR05Takh0dz09</p> <p align="center">Session Chair: Dirk Draheim</p>	
	<p align="center">Explainable Fact Checking for Statistical and Property Claims Paolo Papotti, EURECOM, France</p>		<p align="center">Knowledge Availability and Information Literacies Gerald Weber, University of Auckland, New Zealand</p>	
15:30 - 16:30	<p align="center">DEXA Session 11 Zoom link: https://jku.zoom.us/j/91020136230?pwd=Z21OMTc2RVUxUlkvZ1V3UIVhMzIGdz09</p> <p align="center">Session Chair: Anna-Christina Glock</p>	<p align="center">Dawak Session 8 Zoom link: https://jku.zoom.us/j/99208860001?pwd=OFNmdG91QW5oTS9VTU43MjdYRnMrZz09</p> <p align="center">Session Chair: Bo Jin</p>	<p align="center">TrustBus Session 5 Zoom link: https://jku.zoom.us/j/97383274692?pwd=cmVwNzNXSGh3ZDRRZndESTNHWkt2Zz09</p> <p align="center">Session Chair: Nikolaos Pitropakis</p>	<p align="center">IWCFS Session 1 Zoom link: https://jku.zoom.us/j/99571049608?pwd=dzh6aFdVOEUxclRoTTFLLQVZbDY1dz09</p> <p align="center">Session Chair: Johannes Sametinger</p>
	<p align="center">Authenticity, Privacy, Security and Trust</p> <ul style="list-style-type: none"> • A Framework for Factory-Trained Virtual Sensor Models based on Censored Production Data <i>Sabrina Luftensteiner and Michael Zwick</i> Austria • Blockchain-based Access Control for IoT in Smart Home Systems <i>Bacem Mbarek, Mouzhi Ge and Tomas Pitner</i> Czech Republic • Online Attacks on Picture Owner Privacy <i>Bizhan Alipour Pijani, Abdessamad Imine and Michaël Rusinowitch</i> France 	<p align="center">Supervised Learning</p> <ul style="list-style-type: none"> • Scalable Machine Learning on Popular Analytic Languages with Parallel Data Summarization <i>Sikder Tahsin Al-Amin, Carlos Ordonez</i> USA • Which bills are lobbied? Predicting and interpreting lobbying activity in the US <i>Peter Ormosi, Ivan Slobozhan, Rajesh Sharma</i> UK, Estonia • FIBS: A Generic Framework for Classifying of Interval-based Temporal Sequences <i>S. Mohammad Mirbagheri, Howard j. Hamilton</i> Canada 	<p align="center">Human Aspects, Trust, Privacy and Machine Learning</p> <ul style="list-style-type: none"> • Microtargeting or Microphishing? Phishing Unveiled <i>Bridget Khursheed, Nikolaos Pitropakis, Sean McKeown, Costas Lambrinouidakis</i> UK, Greece • A Distributed Trust Framework for Privacy-Preserving Machine Learning <i>Will Abramson, Adam James Hall, Pavlos Papadopoulos, Nikolaos Pitropakis, and William J Buchanan</i> UK • A Fuzzy Trust Model for Autonomous Entities Acting in Pervasive Computing <i>Kostas Kolomvatsos, Maria Kalouda, Panagiota Papadopoulou, Stathes Hadjieftymiades</i> Greece 	<p align="center">Cyber-Security and Functional Safety in Cyber-Physical Systems</p> <ul style="list-style-type: none"> • YASSi: Yet Another Symbolic Simulator (Tool Demo) <i>Sebastian Pointner, Pablo González de Aledo, Robert Wille</i> Austria • Variational Optimization of Informational Privacy <i>Mohit Kumar, David Brunner, Bernhard A. Moser, Bernhard Freudenthaler</i> Austria • An Architecture for Automated Security Test Case Generation for MQTT Systems <i>Hannes Sochor, Flavio Ferrarotti, Rudolf Ramler</i> Austria

16:45 - 17:45	<p align="center"><u>DEXA Session 12</u> Zoom link: https://jku.zoom.us/j/91020136230?pwd=Z210MTc2RVUxUlkvZ1V3UIVhMzIGdz09</p> <p align="center">Session Chair: Martinez Gil Jorge</p>	<p align="center"><u>Dawak Session 9</u> Zoom link: https://jku.zoom.us/j/99208860001?pwd=OFNmG91QW5oTS9VTU43MjdYRnMrZz09</p> <p align="center">Session Chair: Toshiyuki Amagasa</p>	<p align="center"><u>DEXA Session 13</u> Zoom link: https://jku.zoom.us/j/97383274692?pwd=cmVwNzNXSGh3ZDRRRndESTNHWkt2Zz09</p> <p align="center">Session Chair: Pascal Molli</p>	<p align="center"><u>DEXA Session 14</u> Zoom link: https://jku.zoom.us/j/99571049608?pwd=dzh6aFdVOEUxclRoTTFLQVVZbDY1dz09</p> <p align="center">Session Chair: Sven Hartmann</p>
	<p align="center">Knowledge Discovery</p>	<p align="center">Supervised Learning and Unsupervised Learning</p>	<p align="center">Semantic Web and Ontologies</p>	<p align="center">Prediction and Decision Support; Machine Learning</p>
	<ul style="list-style-type: none"> • A Model-agnostic recommendations Explanation System Based on Knowledge Graph <i>Yuhao Chen and Jun Miyazaki Japan</i> • Game Theory Based Patent Infringement Detection Method <i>Weidong Liu, Xiaobo Liu, Youdong Kong, Zhiwei Yang and Wenbo Qiao China</i> • Unveiling Relations in the Industry 4.0 Standards Landscape based on Knowledge Graph Embeddings <i>Ariam Rivas, Irlán Grangel-González, Diego Collarana, Jens Lehmann and Maria-Esther Vidal Germany</i> 	<ul style="list-style-type: none"> • Multivariate Time Series Classification: a relational way <i>Dominique Gay, Alexis Bondu, Vincent Lemaire, Marc Boullé, Fabrice Clérot France</i> • Behave or be detected! Identifying outlier sequences by their group cohesion <i>Martha Tatusch, Gerhard Klassen, Stefan Conrad Germany</i> • Detecting Anomalies in Production Quality Data Using A Method Based On The Chi-Square Test Statistic <i>Michael Mayr, Johannes Himmelbauer Austria</i> 	<ul style="list-style-type: none"> • Indexing Data on the Web: A Comparison of Schema-level Indices for Data Search <i>Till Blume and Ansgar Scherp Germany, UK</i> • CTransE: An Effective Information Credibility Evaluation Method based on Classified Translating Embedding in Knowledge Graphs <i>Yunfeng Li, Xiaoyong Li and Mingjian Lei China</i> • Updating ontology alignment on the instance level based on ontology evolution <i>Adrianna Kozierkiewicz, Marcin Pietranik and Loan T T Nguyen Poland, Viet Nam</i> 	<ul style="list-style-type: none"> • Deep Discriminative Learning for Autism Spectrum Disorder Classification <i>Mingli Zhang, Xin Zhao, Wenbin Zhang, Ahmad Chaddad, Alan Evans Jean Baptiste Poline Canada, China, USA</i> • From Risks to Opportunities: Real Estate Equity Crowdfunding <i>Verena Schweder, Andreas Mladenow and Christine Strauss Austria</i> • KPML: a Novel Probabilistic Perspective Kernel Mahalanobis Distance Metric Learning Model for Semi-supervised Clustering <i>Chao Wang, Yongyi Hu, Xiaofeng Gao, and Guihai Chen China</i>

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Day 4

Thursday, 17 September 2020

Time	Track 4.1	Track 4.2	Track 4.3	Track 4.4
13:00 - 14:00	<p><u>DEXA Session 15</u> Zoom link: https://jku.zoom.us/j/99310425426?pwd=NmRQdFk2aUNwbkF0eEc2SmZ2UUV2UT09 UT09 Session Chair: Anna-Christina Glock</p>	<p><u>Dawak Session 10</u> Zoom link: https://jku.zoom.us/j/97469295168?pwd=OTZ3akJUV2tCcFNEY0JsWXBndjU5QT09 09 Session Chair: Hwan-Seung Yong</p>	<p><u>DEXA Session 16</u> Zoom link: https://jku.zoom.us/j/99243116099?pwd=QXV2UUFRdzdVSXRPTWVCUOpYTmZpZz09 Zz09 Session Chair: Carsten Kleiner</p>	<p><u>IWCFS Session 2</u> Zoom link: https://jku.zoom.us/j/95340954515?pwd=eGtmbldobIRiWkRhUGI5cTJPV0tWUT09 09 Session Chair: Atif Mashkoor</p>
	<p>Stream Data Processing</p> <ul style="list-style-type: none"> • Feature Drift Detection in Evolving Data Streams Di Zhao and Yun Sing Koh <i>New Zealand</i> • An Efficient Segmentation Method: Perceptually Important Point with Binary Tree Qizhou Sun and Yin-Whar Si <i>Macao</i> • SCODIS: Job Advert-derived Time Series for high-demand Skillset Discovery and Prediction Elisa Margareth Sibarani and Simon Scerri <i>Germany</i> 	<p>Unsupervised Learning</p> <ul style="list-style-type: none"> • Learning from past observations: Meta-Learning for Efficient Clustering <i>Analy- ses</i> Manuel Fritz, Dennis Tschechlov, Holger Schwarz <i>Germany</i> • Parallel K-Prototypes Clustering with High Efficiency and Accuracy Hiba Jridi, Mohamed Aymen Ben HadjKacem, Nadia Essoussi <i>Tunisia</i> • Self-Organizing Map for Multi-view Text Clustering Maha Fraj, Mohamed Aymen Ben HadjKacem, Nadia Essoussi <i>Tunisia</i> 	<p>Temporal, Spatial, and High Dimensional Databases</p> <ul style="list-style-type: none"> • Temporal Aggregation of Spanning Event Stream: A General Framework Aurélie Suzanne, Guillaume Raschia and José Martinez <i>France</i> • Leveraging 3D-Raster-Images and DeepCNN with Multi-source Urban Sensing Data for Traffic Congestion Prediction Ngoc-Thanh Nguyen, Minh-Son Dao and Koji Zettsu <i>Viet Nam, Japan</i> • Privacy preserving spatio-temporal patient data publishing Anifat M. Olawoyin, Carson K. Leung, and Ratna Choudhury <i>Canada</i> 	<p>Cyber-Security and Functional Safety in Cyber-Physical Systems</p> <ul style="list-style-type: none"> • Mode Switching from a Security Perspective: First findings of a Systematic Literature Review Michael Riegler, Johannes Sametinger <i>Austria</i> • Exploiting MQTT-SN for Distributed Reflection Denial-of-Service Attacks Hannes Sochor, Flavio Ferrarotti, Rudolf Ramler <i>Austria</i>
14:30 - 15:30	<p><u>Panel and DEXA Student Best Paper Award</u> Zoom link: https://jku.zoom.us/j/97250825908?pwd=SFpTbWdnNHdONjVGRUtvMmwrw0o3Zz09</p>			
	<p>The Age of Science-making Machines Panel session chair: Stéphane Bressan, National University of Singapore, Singapore</p>			

15:45 - 16:45	<p align="center"><u>DEXA Session 17</u> Zoom link: https://jku.zoom.us/j/99310425426?pwd=NmRQdFk2aUNwbkF0eEc2SmZ2UUV2 UT09 Session Chair: Johannes Sametinger</p>	<p align="center"><u>DEXA Session 18</u> Zoom link: https://jku.zoom.us/j/97469295168?pwd=OTZ3akJUV2tCcFNEY0JsWXBndjU5QT 09 Session Chair: Daniel Hofer</p>	<p align="center"><u>DEXA Session 19</u> Zoom link: https://jku.zoom.us/j/99243116099?pwd=QXV2UUFrdzdVSXRPTWVCU0pYTmZp Zz09 Session Chair: Marcin Pietranik</p>	<p align="center"><u>EGOVIS Session 6</u> Zoom link: https://jku.zoom.us/j/95340954515?pwd=eGtmbldoblRIWkRhUGl5cTJpV0tWUT 09 Session Chair: Gábor Klimkó</p>
	<p align="center">Information Retrieval</p>	<p align="center">Prediction and Decision Support</p>	<p align="center">Semantic Web and Ontologies; Information Retrieval</p>	<p align="center">E-Government cases - data and knowledge management; Artificial intelligence and machine learning in e-Government context</p>
	<ul style="list-style-type: none"> • Discovering Relational Intelligence In Online Social Networks Leonard Tan, Thuan Pham, Hang Kei Ho and Tan Seng Kok Australia, Sweden, Singapore • Generating Dialogue Sentences to Promote Critical Thinking Satoshi Yoshida and Qiang Ma Japan • Semantic Matching over Matrix-Style Tables in Richly Formatted Documents Hongwei Li, Qingping Yang, Yixuan Cao, Ganbin Zhou and Ping Luo China 	<ul style="list-style-type: none"> • An Explainable Artificial Intelligence methodology for hard disk fault prediction Antonio Galli, Vincenzo Moscato, Giancarlo Sperli and Aniello De Santo Italy, USA • An Improved Software Defect Prediction Algorithm using Self-Organizing Maps Combined with Hierarchical Clustering and Data Pre-processing Natalya Shakhovska, Vitaliy Yakovyna and Natalia Kryvinska Ukraine, Poland, Slovakia • A City Adaptive Clustering Framework for Discovering POIs with Different Granularities Junjie Sun, Tomoki Kinoue, Qiang Ma Japan 	<ul style="list-style-type: none"> • Theme-Based Summarization for RDF Datasets Mohamad Rihany, Zoubida Kedad and Stéphane Lopes France • Contextual Preferences to Personalise Semantic Data Lake Exploration Devis Bianchini, Valeria De Antonellis, Massimiliano Garda and Michele Melchiori Italy • On Integrating and Classifying Legal Text Documents Alexandre Quemy and Robert Wrembel Poland 	<ul style="list-style-type: none"> • Towards Evidence-based, Data-driven Thinking in Higher Education Ágnes Meleg, Réka Vas Hungary • Modelling GDPR-Compliant Explanations for Trustworthy AI Francesco Sovrano, Fabio Vitali, Monica Palmiran Italy
17:00 - 18:00	<p align="center"><u>Closing</u> Zoom link: https://jku.zoom.us/j/92437445106?pwd=UURPZWY2ODFFcGIBTjhZcXFhK1JpZz09</p>			

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