IEEE BigData 2022 Program Schedule

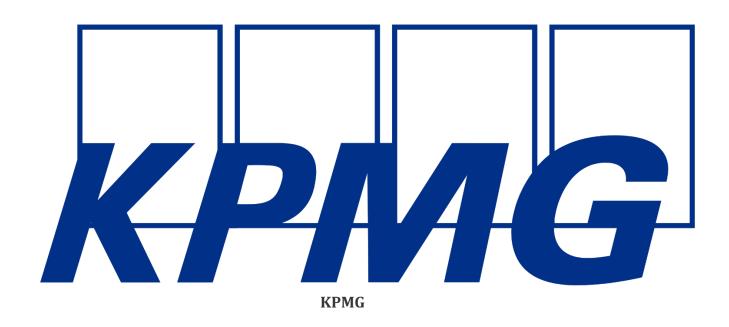
Osaka, Japan

Conference time zone: Japanese Standard Time (JST)

The emails with the login information to access the BigData 2022 virtual platform were sent out to all the registered participants on Dec 10, 2022. Pls check your spam folder if you didn't receive the email. If you need the email login information to access the virtual platform pls email bigdata2022@, don't forget to attach the registration receipt if you ask for the login information. For any questions about the BigData 2022 virtual platform, please email bigdata2022@.

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IEEE Big Data 2022 Program Schedule

Osaka, Japan December 17 - December 20, 2022

Keynote Lecture: **60 minutes** (about 45 minutes for talk and 15 minutes for Q and A) Main conference regular paper: **25 minutes** (about 20 minutes for talk and 5 minutes for Q and A) Main conference short paper: **15 minutes** (about 11 minutes for talk and 4 minutes for Q and A)

All conference activities take place virtually and are based on USA Eastern Standard time.

	Day 1: Saturday, December 17, 2022	
Time	Workshops, Special Sessions, Tutorials, Big Data Cup Challenges	Workshop Chair
8:00-19:00	8th Special Session on Intelligent Data Mining – ONLINE	Uraz Yavanoglu urazyavanoglu@gmail.com; uraz@gazi.edu.tr;
10:30-12:30	Tutorial 1: High Performance BigData Processing with Dask and Spark using MPI - ONLINE	Dhabaleswar K. (DK) Panda panda@cse.ohio-state.edu Aamir Shafi shafi.16@osu.edu
10:30 – 12:30	IEEE BigData Cup: Trip Destination Prediction Challenge 2022 - HYBRID	Yanbo Pang pybdtc@iis.u- tokyo.ac.jp, Yoshihide Sekimoto sekimoto@csis.u- tokyo.ac.jp, Takehiro Kashiyama t.kashiyama@osaka- ue.ac.jp
	Workshop: 7th Workshop on Real-time Stream Analytics, Stream Mining, CER/CEP & Stream Data Management in Big Data	Sabri Skhiri, sabri.skhiri@euranova.eu
	3rd International Workshop on User Understanding from Big Data	Claire Ding, qiding.purdue@gmail.com
	The 6th International Workshop on Big Data Analytic for Cybercrime Investigation and Prevention	Andrii Shalaginov, andrii.shalaginov@kristiani a.no
8;30-12:30	Workshop on Big Data Analytic in Healthcare)ONLINE	Alex Kuo, akuo@uvic.ca
	The 6th Workshop on Graph Techniques for Adversarial Activity Analytics (GTA3 2022)ONLINE	Jiejun Xu, jxu@hrl.com
	The 4th International Workshop on Big Data Tools, Methods, and Use Cases for Innovative Scientific Discovery (BTSD) ONLINE	Sangkeun Lee, lees4@ornl.gov
	The 6th IEEE International Workshop on Big Data for Financial News and Data)ONLINE	Quanzhi Li, quanzhi.li@gmail.com
	Second Workshop on Knowledge Graphs and Big Data)ONLINE	Yuan An, ya45@drexel.edu
	6th Workshop on Human-in-the-loop Methods and Future of Work in BigData)ONLINE	Atsuyuki Morishima, morishima- office@ml.cc.tsukuba.ac.jp
	IEEE BigData 2022 Workshop on Knowledge Discovery and Data Mining in IT Operations (BigData-IT))ONLINE	Yu, Deng, dengy@us.ibm.com

	The 7th IEEE International Workshop on Big Spatial Data (BSD 2022)ONLINE 1st International Workshop on Responsible AI and Data Ethics (RAIDE 2022)ONLINE	Ashwin Shashidharan, ashashidharan@esri.com, FARNOUSH.BANAEI- KASHANI@ucdenver.edu, hendawi@uri.edu, cyzhang@microsoft.com Ying Xie, yxie2@kennesaw.edu
		j
14:00-16:00	Tutorial 2: Explainable AI: Bridging the AI decisions and human trust – ONLINE	Sonali Agarwal sonali@iiita.ac.in Sanjay Kumar Sonbhadra sanjaykumarsonbhadra@so a.ac.in Narinder Singh Punn pse2017002@iiita.ac.in
14:00 – 18:30	IEEE BigData Cup: Vehicle class and Orientation Detection Challenge 2022 – HYBRID	Ashutosh Kumar ashutosh@iis.u-tokyo.ac.jp, Hiroya Maeda maedahi@iis.u-tokyo.ac.jp, Hiroshi Omata homata@iis.u-tokyo.ac.jp, Takehiro Kashiyama t.kashiyama@osaka- ue.ac.jp, Yoshihide Sekimoto sekimoto@csis.u- tokyo.ac.jp
14:00 – 18:30	5th Special Session on HealthCare Data in IEEE Big Data 2022 - ONLINE	Özgün PINARER opinarer@gsu.edu.tr SULTAN N. TURHAN <sturhan@gsu.edu.tr></sturhan@gsu.edu.tr>
16:00 – 19:00	8th Special Session on Information Granulation in Data Science and Scalable Computing - ONLINE	tphong@nuk.edu.tw Leon S. L. Wang slwang@nuk.edu.tw Weiping Ding dwp9988@hotmail.com
14:00-18:30	Workshop: Big Data Analytics for Humanitarian Crises	Thilanka Munasinghe, munast@rpi.edu
	The 6th International Workshop on Big Data Analytic for Cybercrime Investigation and Prevention	Andrii Shalaginov, andrii.shalaginov@kristiani a.no
	5th Workshop on Big Data for CyberSecurity (BigCyber-2022)ONLINE	Sudip Mittal, mittal@cse.msstate.edu
14:00-18:30	The 6th Workshop on Benchmarking, Performance Tuning and Optimization for Big Data Applications (BPOD)ONLINE	zhchen@umbc.edu
11.00 10.50	The Fifth Workshop on Big Data for Economic and Business ForecastingONLINE	Wei Shang, shangwei@amss.ac.cn
	The 5th International Workshop on Big Media Dataset Construction, Management and ApplicationsONLINE	Cheng Jin, jc@fudan.edu.cn

	Day 2: Sunday, December 18, 2022		
	Keynote Speech 1:		
	Prof. Renee Miller,		
9:15 - 10: 15 am	University Northeastern University,		
	A Vision for Data Alignment and Integration in I	Data Lakes	
	Dec 18: 9:15 in JST		
10: 15-10:30 am	Coffee Break		
10:15-10:30	Poster Setup		
Time	Sessions/Workshops	Session chair	
Time	Sessions/ worksnops	Session chair	
		Ordonez,	
	S1: Deep learning for Big Data (1)	Carlos,carlos@central.uh.	
	1 6 6 7	edu	
	S2: Mining Data from Dynamic Real Society	Yanbo Pang, ybdtc@iis.u-	
	32. Willing Data Holli Dyllamic Real Society	tokyo.ac.jp	
		Hiroyuki Kitagawa,	
	S3: Methods for Search and Mining from Big Data (1)	kitagawa@cs.tsukuba.ac.j p	
		Weimao Ke,	
	S4: Novel Theoretical Models for Big Data (1)	weimao.ke@gmail.com	
10:30 - 12:30		Pranava Mummoju,	
	S5: Cloud/Grid/Stream Computing for Big Data	pranava.mummoju@univie	
		.ac.at	
	S6: Predictive analytics on Big Data (1)	U KANG,	
		ukang@snu.ac.kr	
	I&G S1: Deep Learning 1		
		Zipei Fan	
	Tutorial 3: Spatial Big Data Meets AI: Applications and Perspectives - HYBRID	fanzipei@iis.u-tokyo.ac.jp Wenlu Wang	
		wenlu.wang@tamucc.edu	
		Dominik Slezak	
	IEEE Big Data Cup: Privacy-preserving Matching of Encrypted Images - HYBRID	slezak@mimuw.edu.pl, Marcin Szczuka m.szczuka@myled.pl,	
	TEEE Big Data Cup: Privacy-preserving Matching of Encrypted Images - HYBRID	Andrzej Janusz	
		andrzej.janusz@qed.pl	
	HEED, D. C. C. J. J. J. D. D. J. C. J.	Deeksha Arya	
	IEEE BigData Cup: Crowd sensing-based Road Damage Detection Challenge - HYBRID	deeksha.arya1211@gmail.com, Takehiro Kashiyama	
	TIDIGID	t.kashiyama@osaka-ue.ac.jp	
8:30-12:30	Ninth International Workshop on High Performance Big Graph Data Management, Analysis, and Mining (BigGraphs 2022)	Kames h Madduri, madduri@psu.edu	
8:30-12:30	The 2nd International Workshop on Multi-Modal Medical Data AnalysisONLINE	Bo Zhang, zbo@bupt.edu.cn	
	Fifth International Workshop on the Internet of Things Data Analytics (IoTDA)	Eyhab Al-	
	ONLINE	Masri, ealmasriu@gmail.com	
	(Deep) Neural Networks for Brain Connectome Analysis (BrainNN): Theories,	Carl Yang,	
	Methods, and Applications ONLINE	j.carlyang@emory.edu	

12:30 – 14:00	Lunch Break Poster Display	
	S7: Deep learning for Big Data (2)	Chong Li ch.l@huawei.com
	S8: Mining Data from Physical and Cyber Society	Yicheng Tu tuy@usf.edu
	S9: Methods for Search and Mining from Big Data (2)	Lamine Diop lamine.diop@epita.fr
	S10: Novel Theoretical Models for Big Data (2)	Naoki Watanabe naoki50@keio.jp
	S11: Systems to Support Big Data Computing (1)	Yusuke Tanimura yusuke.tanimura@aist.go.jp
14:00 – 16:00	S12: Predictive analytics on Big Data (2)	John Easton j.m.easton@bham.ac.uk
14.00 10.00	I&G S2 Deep Learning (2) + I&G S3: Graph Analysis (1) ,	
	Special Session on Platform for DFFT (Data Free Flow with Trust) – ONSITE	<i>Noboru Koshizuka,</i> noboru@koshizuka-lab.org
	Workshop: Applications of Big Data Technology in the Transport Industry	John Easton, j.m.easton@bham.ac.uk
	5th Special Session on HealthCare Data in IEEE Big Data 2022 – ONLINE	Özgün PINARER opinarer@gsu.edu.tr SULTAN N. TURHAN <sturhan@gsu.edu.tr></sturhan@gsu.edu.tr>
	Tutorial 4: Measurement Informatics – ONLINE	Takashi Washio washio@ar.sanken.osaka-u.ac.jp
	IEEE BigData Cup: Crowd sensing-based Road Damage Detection Challenge - HYBRID	Deeksha Arya deeksha.arya1211@gmail.com, Takehiro Kashiyama t.kashiyama@osaka-ue.ac.jp
16:00-16:20	Coffee Break Poster Display	undonyama@osana asiasip
	S13: Deep learning for Big Data (3)	Rao, Aniruddha Rajendra Aniruddha.Rao@hal.hitachi.c om
	S14: Link and Graph Mining	Yasufumi Takama ytakama@tmu.ac.jp
	S15: Complex Big Data Applications (1)	Akinori Abe ave@chiba-u.jp
	S16: Computational Models in Big Data	John Paisley jpaisley@columbia.edu
	S17: Systems to Support Big Data Computing (2)	Toshiyuki AMAGASA amagasa@cs.tsukuba.ac.jp
16:20 – 18:20	S18: Machine learning algorithms for Big Data (1)	Dirk Van den Poel dirk.vandenpoel@ugent.be
	I&G S4: Graph Analysis (2) + I&G S5: Clustering	
	8th Special Session on Information Granulation in Data Science and Scalable Computing	Shusaku Tsumoto tsumoto@med.shimane-u.ac.jp Dominik Slezak slezak@mimuw.edu.pl Tzung-Pei Hong tphong@nuk.edu.tw Leon S. L. Wang slwang@nuk.edu.tw Weiping Ding dwp9988@hotmail.com

	Workshop: Applications of Big Data Technology in the Transport Industry	John Easton, j.m.easton@bham.ac.uk
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	IEEE BigData Cup: Crowd sensing-based Road Damage Detection Challenge - HYBRID	Deeksha Arya deeksha.arya1211@gmail.com, Takehiro Kashiyama, t.kashiyama@osaka-ue.ac.jp
ONLINE Workshop 14:00- 18:30	8th International Workshop on Methods to Improve Big Data Science Projects (MIDP-2022)ONINE	Jeffrey Saltz, jsaltz@syr.edu
	Workshop: Scalable Cloud Data ManagementONLINE	Benjamin Wollmer, benjamin.wollmer@un i-hamburg.de
	The 3rd International Workshop on Big Data Reduction (IWBDR-3) ONLINE	Dingwen Tao, dingwen.tao@wsu.edu
	6th International Workshop on Big Data Analytics for Cyber Intelligence and Defense (BDA4CID 2022)ONLINE	Stephen McGough, stephen.mcgough@newcastle.ac. uk
	1st International Workshop on Big Data Analytics for Health and Medicine (BDA4HM 2022)ONLINE	Stephen McGough, stephen.mcgough@newcastle.ac. uk
	2nd International Workshop on Big Data Analytics for Sustainability (BDA4S 2022) ONLINE	Stephen McGough, stephen.mcgough@newcastle.ac. uk
	Creating Big Data for morals, ethics, and values in natural language in an automatically inferrable formatONLINE	Keisuke Nakamura, keisuke@marusei-sk.com

Day 3: Monday, December 19, 2022				
	Keynote Speech 2:			
	Prof. Hiroaki Kitano,			
9:00 – 10: 00 am	Okinawa Institute of Science and Technology	(OIST)		
	COVID-19 AI & Simulation Project: Overview and L	essons Learned		
	Dec 19: I 9:00 in JST			
10: 00-10:30 am	Coffee Break			
10. 00-10.30 am	Poster Display			
Time	Sessions/Workshops	Session chair		
	S19: Complex Big Data Applications (2)	Kaira Sekiguchi		
	. 1 6 11 ()	kaira@sys.t.u-tokyo.ac.jp		
	S20. Doom Joanning for Dig Data (2)	Takafumi Koshinaka <koshinak@yokohama-< td=""></koshinak@yokohama-<>		
	S20: Deep learning for Big Data (3)	cu.ac.jp>		
10:30 – 12:30	S21: Machine learning algorithms for Big Data (2)	Akinori Abe ave@chiba-		
	521. Machine learning argorithms for Big Data (2)	u.jp		
	S22: Data Acquisition, Pre-processing, and Integration (1)	Lalana Kagal		
	1, F, (-)	lkagal@csail.mit.edu		
	S23: Big Data in Real Life Applications (1)	FARAH AL.SHANIK		
		falshan@g.clemson.edu		

	S24: Data Market and Trust	Masatoshi Yoshikawa yoshikawa@i.kyoto-u.ac.jp
	I&G S6: Big Data Systems (1)	
	I&G S7: Legal applications + I&G S8: Covid-19 Analysis	
	Special Session on Data-Driven Designation and Implementation of Automated Guided Vehicles	Jerry Chun-Wei Lin jerrylin@ieee.org Rafal Cupek Dariusz Mrozek Gautam Srivastava
	Special session on Machine Leaning on Big Data	Alfredo Cuzzocrea alfredo.cuzzocrea@unical.it
	Special session on Privacy and Security of Big Data	Alfredo Cuzzocrea alfredo.cuzzocrea@unical.it
	Tutorial 5: Learning with Time Series Data: Algorithms, Explainability, and Applicatio—s - ONLINE	Jun Huan lukehuan@amazon.com Yuyang Wang yuyawang@amazon.com Youngsuk Park pyoungsu@amazon.com Karthick Gopalswamy kgopalsw@amazon.com Gaurav Gupta gauravaz@amazon.com Panpan Xu xupanpan@amazon.com
8:30-12:30	Computational Archival Science: digital records in the age of big dataONLINE	Mark Hedges, mark.hedges@kcl.ac. uk
8:30-12:30	10th International Workshop on Distributed Storage and Blockchain Technologies for Big Data ONLINE	Han Wang, wanghan2017@pku.e du.cn
8:30-12:30	7th Workshop on Advances in High Dimensional (AdHD) Big Data	Aristidis Vrahatis aris.vrahatis@gmail.c om
aris.vrahatis@gm ail.com 8:30- 12:30	Second International Workshop on Data science for equality, inclusion and well-being challeng (DS4EIW 2022)	Tania Cerquitelli, tania.cerquitelli@polit o.it
12:30 – 14:00	Lunch Break Poster Display	
	S25: Complex Big Data Applications (3)	Wenbin Gan wenbingan@nict.go.jp
	S26: Deep learning for Big Data (4)	Takafumi Koshinaka <koshinak@yokohama- cu.ac.jp></koshinak@yokohama-
	S27: Machine learning algorithms for Big Data (3)	Renhe Jiang jiangrh@csis.u-tokyo.ac.jp
14:00 – 16:00	S28: Data Acquisition, Pre-processing, and Integration (2)	Hassan Eldeeb ha.eldeeb@gmail.com
	S29: Visualization Analytics for Big Data	Sangbong Yoo usangbong@gmail.com
	S30: Trust, resilience, privacy, and security issues	Yang Cao yang@ist.hokudai.ac.jp
	I&G S9: Advertisement and Recommendation + I&G S10: Big Data Analysis (1)	

		Alfre	edo Cuzzocrea
	Special session on Machine Leaning on Big Data		izzocrea@unical.it
	Special session on Privacy and Security of Big Data		edo Cuzzocrea uzzocrea@unical.it
	Tutorial 6: Utility of Clustering algorithms in Social Media Analys-s - ONLINE		akeaki Uno no@nii.jp
	5th Special Session on HealthCare Data in IEEE Big Data 2022 – ONLINE	<u>opina</u> SULTA	in PINARER rer@gsu.edu.tr NN N. TURHAN an@gsu.edu.tr>
	Special Session on Data-Driven Designation and Implementation of Automated Guided Vehicles	Jerry jerry Ra Dar	Chun-Wei Lin 'lin@ieee.org afal Cupek iusz Mrozek am Srivastava
	IEEE Big Data Cup: GAN-Based Training for Binary Classifier - ONLINE	hussam.al Erne Ernesto.d Mar martina.n Sivapi siva@s	am Al Hamadi hamadi@ku.ac.ae, esto Damiani lamiani@ku.ac.ae, rtina Morcos norcos@ku.ac.ae,, rasad Nandyala ssrc.tii.ae, Brian n brian@ssrc.tii.ae
	Workshop: New Strands of Usage of Big Data in Medical Systems, Market and Institutional I and Economic Theory	Design,	Naoki Watanabe, naoki50@keio.jp
14:00-18:00	Workshop on Cyber Threat Intelligence and Hunting (CyberHunt 2022)		Vasileios Mavroeidis, vasileim@ifi.uio.n o
14:00-18:00	Computational Archival Science: digital records in the age of big dataONLINE		Mark Hedges, mark.hedges@k cl.ac.uk
14:00-18:00	10th International Workshop on Distributed Storage and Blockchain Technologies for Big I ONLINE	Oata	Han Wang, wanghan2017@ pku.edu.cn
14:00-18:00	Big Data Engineering and Analytics in Cyber-Physical Systems" (BigEACPS'22)ONLI	NE	Akbar Namin, akbar.namin@tt u.edu
14:00-18:00	Big Food, Nutrition and Environment Data Management and AnalysisONLINE		Barbara Koroušić Seljak, barbara.korousic @ijs.si
16: 00-16:30	Coffee Break Poster Display		
16:30-18:50	Special session on Machine Leaning on Big Data - ONLINE		fredo Cuzzocrea do.cuzzocrea@unic al.it
10.50-16:30	Special session on Privacy and Security of Big Data ONLINE		fredo Cuzzocrea do.cuzzocrea@unic al.it
16:30-18:50	Computational Archival Science: digital records in the age of big dataONLINE		Mark Hedges, k.hedges@kcl.ac. uk

l H	lan Wang,
1 10th International Workshop on Distributed Storage and Blockshop Technologies for Big Data	U /
ONLINE wangi	an2017@pku.e
ONEINE	du.cn

Keynote Speech 3:

17:00 - 18: 00

Prof. Meihui Zhang Beijing Institute of Technology, China Big Data Management and Analytics for Supporting Smart Healthcare Applications

Dec 19: 17:00 in JST (AM 8:00 by GST)

	Day 4: Tuesday, December 20, 2022	
	Keynote Speech 4:	
	Prof. Tamer Özsu	
9:00 - 10: 00 am	A SYSTEMATIC VIEW OF DATA SCIENCE	
	University of Waterloo (2018)	
	Dec 20: 9:00 in JST	
10 - 10: 30 am	Coffee Break Poster Display	
Time	Sessions/Workshops	Session chair
	S31: Trust, resilience, privacy, and security issues	Min-Te Sun msun@csie.ncu.edu.tw
	S32: Social Web Search and Mining	Lamine Diop lamine.diop@epita.fr
	S33: Big Data in Real Life Applications (2)	John Easton j.m.easton@bham.ac.uk
10:30 – 12:30	S34: Large-scale Recommendation Systems and Social Media Systems	Daichi AMAGATA amagata.daichi@ist.osak a-u.ac.jp
	S35: Big Data Analytics in Government, Public Sector and Society in General	Roten, Daniel d1roten@sdsc.edu
	S36: Deep learning for Big Data (5)	Jaewoo Lee JAEWOO.LEE@uga.edu
	S37: Learning Essential Features in Big Data	Rao, Aniruddha Rajendra Aniruddha.Rao@hal.hita chi.com
	I&G S11: Big Data Analysis (2)	
	I&G S12: Big Data Systems (2) + I&G S13: Big Data Applications (1) + I&G S14: Big Data Analysis (3)	
	Special session on Machine Leaning on Big Data	Alfredo Cuzzocrea alfredo.cuzzocrea@unical.it
	Special session on Privacy and Security of Big Data ONLINE	Alfredo Cuzzocrea alfredo.cuzzocrea@unical.it
	Workshop: Digital twins for accelerated discovery of climate and sustainability solutions	Levente Klein, kleinl@us.ibm.com
8:830-12:30	Workshop: The Sixth Annual Workshop on Applications of Artificial Intelligence in the Legal Industry	Han Qin, han.qin@ankura.com

12:30 – 14:00	Lunch Break Poster Display	
	S38: Data Ecosystem and Its Evaluation (1)	Kawsar Haghshenas kawsar.haghshenas@iaa s.uni-stuttgart.de
	S39: Social Web Search and Mining	Hiroki Sakaji sakaji@sys.t.u- tokyo.ac.jp
14:00 – 16;00	S40: Big Data in Real Life Applications (3)	Peter Baumann baumann@rasdaman.co m
	S41: Large-scale Recommendation Systems and Social Media Systems	Katsutoshi Yada yada@kansai-u.ac.jp
	S42: Big Data Analytics for Value Creation in the Real Life	Bessho Masahiro bessho@iniad.org
	S43: Deep learning for Big Data (6)	Poonam Goyal drpoonamgoyal@gmail.c om
	I&G S15: Big Data Applications (2)	
	Tutorial 7: Learning from Non-IID Data: Centralized vs. Federated Learning - HYBRID	Jun Wu junwu3@illinois.edu Wenxuan Bao wbao4@illinois.edu Jingrui He jingrui@illinois.edu
16:00 - 16: 20	Coffee Break	
	S44: Link and Graph Mining	Shen Wang <pre><wssddtc@gmail.com></wssddtc@gmail.com></pre>
16:20-18:00	S45: Computational Models and Information Quality	Ordonez, Carlos sabri.skhiri@euranova.e u
	I&G S16: Big Data Analysis (4)	
	Special session on Machine Leaning on Big Data - ONLINE	Alfredo Cuzzocrea alfredo.cuzzocrea@unical.it
	Special session on Privacy and Security of Big Data ONLINE	Alfredo Cuzzocrea alfredo.cuzzocrea@unical.it
18:00-18:30pm	Closing	

Main Conference Paper Sessions

S1: Deep learning for Big Data (1)		
BigD254 "FEZ: a Flexible and Efficient Zoom-in Method for Ultra-large Image Classification" (Regular)	Cheng-Han Lu and Shih-Hao Hung	
BigD286 "Improving Representation Learning for Session-based Recommendation" (Regular)	Tianwen Chen and Raymond Chi-Wing Wong	
BigD246 "FedLesScan: Mitigating Stragglers in Serverless Federated Learning" (Short)	Mohamed Elzohairy, Mohak Chadha, Anshul Jindal, Andreas Grafberger, Jianfeng Gu, Michael Gerndt, and Osama Abboud	
BigD250 "Open Set Domain Adaptation by Extreme Value Theory" (Short)	Yiming Xu and Diego Klabjan	
BigD308 "VWC-BERT:Scaling Vulnerability–Weakness– Exploit Mapping on Modern AI Accelerators" (Short)	Siddhartha Shankar Das, Mahantesh Halappanavar, Antonino Tumeo, Edoardo Serra, Alex Pothen, and Ehab Al-Shaer	
BigD309 "Sequential Anomaly Detection with Local and Global Explanations" (Short)	He Cheng, Depeng Xu, and Shuhan Yuan	
S2: Mining Data from Dynamic Real Society		
BigD614 "Clustering Human Mobility with Multiple Spaces" (Regular)	Haoji Hu, Haowen Lin, and Yao-Yi Chiang	
BigD563 "Proximal Cost-sensitive Sparse Group Online Learning" (Regular)	Zhong Chen, Huixin Zhan, Victor Sheng, Andrea Edwards, and Kun Zhang	
BigD413 "On Inferring User Socioeconomic Status with Mobility Records" (Regular)	Zheng Wang, Mingrui Liu, Cheng Long, Qianru Zhang, Jiangneng Li, and Chunyan Miao	
BigD831 "Spatial Attention Based Grid Representation Learning For Predicting Origin–Destination Flow" (Regular)	Mingfei Cai, Yanbo Pang, and Yoshihide Sekimoto	
BigD598 "Generation of Synthetic Urban Vehicle Trajectories" (Short)	Chrysovalantis Anastasiou, Seon Ho Kim, and Cyrus Shahabi	
S3: Methos for Search and Mining from Big Data (1)		
BigD366 "LASSO Logic Engine: harnessing the logic parsing capabilities of the LASSO algorithm for longitudinal feature learning" (Regular)	Jason Orender, Mohammad Zubair, and Jiangwen Sun	
BigD633 "VIMTS: Variational-based Imputation for Multi-modal Time Series" (Regular)	Xiaohu Zhao, Kebin Jia, Benjamin Letcher, Jennifer Fair, Yiqun Xie, and Xiaowei Jia	
BigD262 "Multi-Query Optimization Revisited: A Full-Query Algebraic Method" (Regular)	Mehrad Eslami, Yicheng Tu, Zichen Xu, and Hadi Charkhgard	
BigD472 "A New IoT Storage System Based on Raw NVM" (Short)	Tao Cai, Yueming Ma, Dejiao Niu, Pengfei Gao, Tianle Lei, and Jianfei Dai	
BigD650 "An FPGA-based Accelerator for Regular Path Queries over Edge-labeled Graphs" (Short)	Kento Miura, Ryohei Kobayashi, Toshiyuki Amagasa, Hiroyuki Kitagawa, Norihisa Fujita, and Taisuke Boku	
BigD651 "Verification of Sparsity in the Attention Mechanism of Transformer for Anomaly Detection in Multivariate Time Series" (Short)	Chihiro Maru, Boris Brandherm, and Ichiro Kobayashi	

C4. Naval Theoretic	bl Models for Big Data (1)	
S4: Novel Theoretical Models for Big Data (1) BigD310 "Trie-based Output Space Itemset Sampling" Lamine Diop, Cheikh Talibouya Diop, Arnaud Giacometti, and		
(Regular)	Arnaud Soulet	
BigD550 "Alternatives to Classic BM25-IDF based on a New Information-theoretical Framework" (Regular)	Weimao Ke	
BigD240 "Adaptive and Dynamic Multi-Resolution Hashing for Pairwise Summations" (Short)	Lianke Qin, Aravind Reddy, Zhao Song, Zhaozhuo Xu, and Danyang Zhuo	
BigD442 "A Novel GPU-Accelerated Algorithm to Discover Periodic-Frequent Patterns in Temporal Databases" (Short)	Uday Kiran Rage, Tarun Sreepada, Yutaka Watanobe, and Kazuo Goda	
BigD647 "FVec2vec: A Fast Nonlinear Dimensionality Reduction Approach for General Data"	Xiaoli Ren, Kefeng Deng, Kaijun Ren, Junqiang Song, Xiaoyong Li, and Qing Xu	
S5: Cloud/Grid/Strea	m Computing for Big Data	
BigD743 "Ruya: Memory-Aware Iterative Optimization of Cluster Configurations for Big Data Processing" (Regular)	Jonathan Will, Lauritz Thamsen, Jonathan Bader, Dominik Scheinert, and Odej Kao	
BigD411 "Multi-Cloud Query Optimisation with Accurate and Efficient Quoting" (Short)	Damien T. Wojtowicz, Shaoyi Yin, Jorge Martinez-Gil, Franck Morvan, and Abdelkader Hameurlain	
BigD450 "PROFET: Profiling-based CNN Training Latency Prophet for GPU Cloud Instances" (Short)	Sungjae Lee, Yoonseo Hur, Subin Park, and Kyungyong Lee	
BigD497 "Latency vs Cost : Data Ingestion options at Twitter Scale" (Short)	Zhenzhao Wang, Santosh Marella, Mak Inada, Pablo Rodriguez Defino, Abhishek Jagannath, and Lohit VijayaRenu	
BigD710 "Enhancing k-Means Algorithm with Tensor Processing Unit" (Short)	Pranava Mummoju, Anna Wolff, Martin Perdacher, Claudia Plant, and Christian B'öhm	
BigD816 "Optimal Rate Control for Latency-constrained High Throughput Big Data Applications" (Short)	Ziren Xiao, Aaron Harwood, and Maria Rodriguez	
BigD849 "Perona: Robust Infrastructure Fingerprinting for Resource-Efficient Big Data Analytics" (Short)	Dominik Scheinert, Soeren Becker, Jonathan Bader, Lauritz Thamsen, Jonathan Will, and Odej Kao	
S6: Predictive analytics on Big Data (1)		
BigD372 "Tab-HGNN: Learning Column Representation with Heterogeneous Graph Neural Network for Web Table Interpretation" (Regular)	Xingyu Su and Yanyan Shen	
BigD448 "A Unified Model for Bid Landscape Forecasting in the Mixed Auction Types of Real-Time Bidding" (Regular)	Seonguk Seo, Jihye Ha, Jieun Shin, Sunah Kim, and Taeho Hwang	
BigD471 "Accurate PARAFAC2 Decomposition for Temporal Irregular Tensors with Missing Values" (Regular)	Jun-Gi Jang, Jeongyoung Lee, Jiwon Park, and U Kang	
BigD656 "Spatio-Temporal Based Architecture Topology Search for Multivariate Time Series Prediction" (Short)	Xinqi Lyu, Yibo Chen, Jiamin Chen, Xiangyue Liu, and Jianliang Gao	
BigD498 "A Semi-Supervised Learning Approach for Abnormal Event Prediction on Large Network Operation Time-Series Data" (Regular)	Yijun Lin and Yao-Yi Chiang	
S7: Deep learning for Big Data (2)		
BigD295 "Learning Dynamic Multimodal Implicit and Explicit Networks for Multiple Financial Tasks" (Regular)	Gary Ang and Ee-Peng Lim	
BigD318 "Decomposed Transformer with Frequency Attention for Multivariate Time Series Anomaly Detection" (Regular)	Shuxin Qin, Jing Zhu, Dan Wang, Liang Ou, Hongxin Gui, and Gaofeng Tao	
BigD339 "WaveNets: Wavelet Channel Attention Networks" (Regular)	Hadi Salman, Caleb Parks, Shi Hong, and Justin Zhan	
BigD412 "Enhancing Graph Convolutional Networks by Topology Sampling" (Short)	Quentin Petit, Chong Li, Serge Petiton, Kelun Chai, and Nahid Emad	

BigD425 "SHCN: Self-supervised General Hypergraph Clustering Network" (Short)	Mengran Li, Xinlin Piao, Yong Zhang, Yongli Hu, and Baocai Yin	
S8: Mining Data from	Physical and Cyber Society	
BigD566 "iFiG: Individually Fair Multi-view Graph Clustering" (Regular)	Yian Wang, Jian Kang, Yinglong Xia, Jiebo Luo, and Hanghang Tong	
BigD649 "ABM: Attention-based Message Passing Network for Knowledge Graph Completion" (Regular)	Weikai Xu, Lihui Liu, and Hanghang Tong	
BigD283 "Towards Robust Graph Neural Networks via Adversarial Contrastive Learning" (Regular)	Shen Wang, Zhengzhang Chen, Jingchao Ni, Haifeng Chen, and Philip S. Yu	
BigD815 "FedGSL: Federated Graph Structure Learning for Local Subgraph Augmentation" (Short)	Geng Zhao, Yi Huang, Chihsu Tsai, and Yuxia Sun	
BigD452 "QuoGNN: Quotient Graph Neural Network for Urban Flow Forecasting" (Short)	Xiaochuan Gou, Peng Han, and Xiangliang Zhang	
S9: Methods for Search	and Mining from Big Data (2)	
BigD617 "Predicting Deduplication Performance: An Analytical Model and Empirical Evaluation" (Regular)	Owen Randall and Paul Lu	
BigD237 "Scalable and Accurate Density-Peaks Clustering on Fully Dynamic Data" (Regular)	Daichi Amagata	
BigD215 "A Novel Estimate Fitness Method by Measuring A large number of Sub-event Logs Conformance" (Short)	Mimi Wang, Xudong He, and Peihai Zhao	
BigD771 "From Data Warehouse to Lakehouse: A Comparative Review" (Short)	Ahmed Harby and Farhana zulkernine	
BigD575 "Griddle: Effective Query Support over Voluminous Gridded Spatial Datasets" (Short)	Pierce Smith, Sangmi Pallickara, and Shrideep Pallickara	
S10: Novel Theoretical Models for Big Data (2)		
BigD571 "On High-Latency Bowtie Data Streaming" (Regular)	Gabriel Stella and Dmitri Loguinov	
BigD688 "Detection of Unobserved Common Cause in Discrete Data Based on the MDL Principle" (Regular)	Masatoshi Kobayashi, Kohei Miyaguchi, and Shin Matsushima	
BigD755 "Improving Robustness of Vision Transformers via Data-Augmented Virtual Adversarial Training" (Short)	Weili Shi and Sheng Li	
S11: Systems to Supp	ort Big Data Computing (1)	
BigD445 "ByteStore: Hybrid Layouts for Main-Memory Column Stores" (Regular)	Pengfei Zhang, ZiQiang Feng, Eric Lo, and Hailin Qin	
BigD505 "Scalable Parallel Machine Learning Computing a Summarization Matrix with SQL Queries" (Regular)	Carlos Ordonez	
BigD422 "Workload Prediction for Adaptive Approximate Query Processing" (Short)	Hamid Shahrivari, Odysseas Papapetrou, and George Fletcher	
BigD454 "A novel self-adaptive method for improving patient monitoring with composite early-warning scores" (Short)	Antonio Iyda Paganelli, Pedro Elkind Velmovitsky, Adriano Branco, Markus Endler, Plinio Pelegrini Morita, Paulo Alencar, and Donald Cowan	
S12: Predictive analytics on Big Data (2)		
BigD552 "Profiling-free Configuration Adaptation and Latency-Aware Resource Scheduling for Video Analytics" (Regular)	Tian Zhou, Fubao Wu, and Lixin Gao	
BigD758 "Significant Digits: Using Large-Scale Blockchain Data to Predict Fraudulent Addresses" (Regular)	Jared Gridley and Oshani Seneviratne	

BigD845 "Bundle entropy as an optimized measure of consumers' systematic product choice combinations in mass transactional data" (Regular)	Roberto Mansilla, Gavin Smith, Andrew Smith, and James Goulding	
BigD787 "Fidelity and diversity metrics for validating hierarchical synthetic data: Application to residential energy demand" (Short)	Swapna Thorve, Anil Vullikanti, Henning Mortveit, Samarth Swarup, and Madhav Marathe	
S13: Deep lear	ning for Big Data (3)	
BigD415 "A Hybrid Model Based on NeuralProphet and Long Short-Term Memory for Time Series Forecasting" (Regular)	Zhaofeng Yu, Kun Niu, Xiao Chen, Zhijun Guo, and Dongsheng Li	
BigD392 "Local Temporal Abstraction in Time Series Classification" (Short)	Nevo Itzhak, Shahar Tal, Hadas Cohen, Osher Daniel, Roze Kopylov, and Robert Moskovitch	
S14: Link and	Graph Mining (8-8)	
BigD577 "Skew-Symmetric Adjacency Matrices for Clustering Directed Graphs" (Regular)	Koby Hayashi, Sinan Aksoy, and Haesun Park	
BigD628 "Self-supervised Hypergraph Representation Learning" (Regular)	Boxin Du, Changhe Yuan, Robert Barton, Tal Neiman, and Hanghang Tong	
BigD687 "Dynamic Graph Summarization: Optimal and Scalable" (Regular)	Mahdi Hajiabadi, Venkatesh Srinivasan, and Alex Thomo	
BigD453 "Fast Binary Network Hashing via Graph Clustering" (Short)	Yasuhiro Fujiwara, Masahiro Nakano, Atsutoshi Kumagai, Yasutoshi Ida, Akisato Kimura, and Naonori Ueda	
BigD330 "DELATOR: Money Laundering Detection via Multi-Task Learning on Large Transaction Graphs" (Short)	Henrique S. Assumpção, Fabrício Souza, Leandro Lacerda Campos, Vinícius T. de Castro Pires, Paulo M. Laurentys de Almeida, and Fabricio Murai	
BigD464 "Network Distance based on Laplacian Flows on Graphs" (Short)	Dianbin Bao, Kisung You, and Lizhen Lin	
S15: Complex Bi	g Data Applications (1)	
BigD233 "Revenue Maximization in Waterfall Auctions with Dynamic Programming" (Regular)	Dan Halbersberg, Matan Halevi, and Moshe Salhov	
BigD243 "Conditional Graph Regression for Complex Chemical Systems with Heterogeneous Substructures" (Regular)	Gyoung S. Na	
BigD328 "Progressive prediction of hospitalisation and patient disposition in the emergency department" (Regular)	Laura Uhl, Vincent AUGUSTO, Vincent Lemaire, Youenn Alexandre, Fanny Jardinaud, Paolo Bercelli, and Saber Aloui	
BigD245 "POSGen: Personalized Opening Sentence Generation for Online Insurance Sales" (Short)	Yu Li, Yi Zhang, Weijia Wu, Zimu Zhou, and Qiang Li	
BigD311 "ISIDE: Proactively Assist University Students at Risk of Dropout" (Short)	Enrico Bassetti, Andrea Conti, Emanuele Panizzi, and Gabriele Tolomei	
BigD320 "Continuous Health Monitoring of Machinery using Online Clustering on Unlabeled Data Streams" (Short)	Minh-Huong Le-Nguyen, Fabien Turgis, Pierre-Emmanuel Fayemi, and Albert Bifet	
S16: Computational Models in Big Data		
BigD390 "Aggregation Delayed Federated Learning" (Regular)	Ye Xue, Diego Klabjan, and Yuan Luo	
BigD590 "Efficient first-order predictor-corrector multiple objective optimization for fair misinformation detection" (Regular)	Eric Enouen, Katja Mathesius, Sean Wang, Arielle Carr, and Sihong Xie	
BigD695 "Probabilistic Orthogonal Matching Pursuit" (Regular)	Ghazal Fazelnia and John Paisley	
BigD726 "Bayesian Nonparametric Model Averaging	John Paisley, Sebastian Rowland, Jeremiah Liu, Brent Coull, and Marianthi Kioumourtzoglou	

BigD434 "Scalable Tensors for Big Data Analytics" (Short)	Leonidas Fegaras, Tanvir Ahmed Khan, Md Hasanuzzaman Noor, and Tanzima Sultana		
S17: Systems to Supp	ort Big Data Computing (2)		
BigD591 "Data Transformation Acceleration using Deterministic Finite-State Transducers" (Regular)	Marziyeh Nourian, Tri Nguyen, Andrew A. Chien, and Michela Becchi		
BigD299 "Adaptive Aggregation For Federated Learning" (Short)	K. R. Jayaram, Vinod Muthusamy, Gegi Thomas, Ashish Verma, and Mark Purcell		
S18: Machine learning	g algorithms for Big Data (1)		
BigD256 "Exploring Multi-Time Context Vector and Randomness for Stock Movement Prediction" (Regular)	Kanghyeon Seo and Jihoon Yang		
BigD260 "LLU-Swin:Low-Light Image Enhancement with U-shaped Swin Transformer" (Regular)	Lijiang Shao, Wenjin Wang, Shiguo Huang, and Xiaolin Li		
BigD302 "AuxPOS: Improving Grammatical Correctness with Big Data Based Text Summarization" (Regular)	Rui Zhang, Jianjun Yu, and Yuanchun Zhou		
BigD365 "Spatial Clustering Method of Historical AIS Data for Maritime Traffic Routes Extraction" (Regular)	Lubna Eljabu, Mohammad Etemad, and Stan Matwin		
BigD297 "A Convergence Theory for Federated Average: Beyond Smoothness" (Short)	Xiaoxiao Li, Zhao Song, Runzhou Tao, and Guangyi Zhang		
BigD377 "Adaptive Knowledge Transfer on Evolving Domains" (Short)	Jun Wu, Hanghang Tong, Elizabeth Ainsworth, and Jingrui He		
S19: Complex Bi	g Data Applications (2)		
BigD444 "Encouraging Crowd Avoidance Behavior using Dynamic Pricing Framework Towards Preventing the Spread of COVID-19" (Regular)	Keiichi Ochiai, Hiroyuki Sato, Hiroshi Kawakami, Takahiro Ide, Toru Otaki, Akira Yamada, Tatsuya Yano, Hiroki Okawa, Takuya Shirai, and Yutaka Arakawa		
BigD579 "Multi-Behavior Recommendation with Hyperbolic Geometry" (Regular)	Di You, Thanh Tran, and Kyumin Lee		
BigD604 "ESEP: Data-Driven Emergency and Safe Evacuation Driving Path Planning During Natural Catastrophes" (Regular)	Shohaib Mahmud, Haiying Shen, Ying Natasha Zhang Foutz, and Joshua Anton		
BigD327 "Leveraging Subgraph Structure for Exploration and Analysis of Bitcoin Address" (Short)	Yuexin Xiang, Tiantian Li, and Yuquan Li		
BigD337 "Secure Multi-party kNN Search in Large-scale Spatial Data Federation" (Short)	Yuanyuan Zhang, Yexuan Shi, Nan Zhou, Yi Xu, and Ke Xu		
BigD396 "Teachers in Social Media: A Gender-aware Behavior Analysis" (Short)	Hamid Karimi, Kaitlin Torphy Knake, and Kenneth A. Frank		
S20: Deep lear	S20: Deep learning for Big Data (3)		
BigD421 "Heterogeneity-Aware Adaptive Federated Learning Scheduling" (Regular)	Jingoo Han, Ahmad Faraz Khan, Syed Zawad, Ali Anwar, Nathalie Baracaldo Angel, Yi Zhou, Feng Yan, and Ali R. Butt		
BigD527 "EFFGAN: Ensembles of fine-tuned federated GANs" (Regular)	Ebba Ekblom, Edvin Listo Zec, and Olof Mogren		
Fucxxy kBigD536 "Randomize Adversarial Defense in a Light Way" (Regular)	Ji-Young Park, Lin Liu, Jixue Liu, and Jiuyong Li		
BigD443 "Dynamic Cell Structure via Recursive- Recurrent Neural Networks" (Short)	Xin Qian, Matthew Kennedy, and Diego Klabjan		
BigD484 "Road Rutting Detection using Deep Learning on Images" (Short)	Poonam Kumari Saha, Deeksha Arya, Ashutosh Kumar, Hiroya Maeda, and Yoshihide Sekimoto		
BigD516 "Asymmetric Self-Supervised Graph Neural Networks" (Short)	Zhuo Tan, Bin Liu, and Guosheng Yin		
S21: Machine learning algorithms for Big Data (2)			

BigD490 "Efficient and Scalable Implicit Graph Neural	Qi Chen, Yifei Wang, Yisen Wang, Jianlong Chang, Qi Tian,		
Networks with Virtual Equilibrium" (Regular) BigD587 "GQFormer: A Multi-Quantile Generative	Jiansheng Yang, and Zhouchen Lin Shayan Jawed and Lars Schmidt-Thieme		
Transformer for Time Series Forecasting" (Regular)			
BigD630 "Robust and Resource-efficient Machine Learning Aided Viewport Prediction in Virtual Reality" (Regular)	Yuang Jiang, Konstantinos Poularakis, Diego Kiedanski, Sastry Kompella, and Leandros Tassiulas		
BigD564 "Fuzzy Law: Towards Creating a Novel Explainable Technology-Assisted Review System for e- Discovery" (Short)	Charles Courchaine and Ricky Sethi		
BigD569 "Robust Learning with Noisy Label Detection and Counterfactual Correction" (Short)	Wenting Qi and Charalampos Chelmis		
BigD574 "Label Denoising and Counterfactual Explanation with A Plug and Play Framework" (Short)	Wenting Qi and Charalampos Chelmis		
S22: Data Acquisition, I	Pre-processing, and Integration		
BigD348 "An approach to constructing a graph data repository for course recommendation based on IT career goals in the context of big data" (Regular)	Thu Nguyen, Ngoc Vu, and Binh Ly		
BigD462 "Overcoming Challenges of Synthetic Data Generation" (Regular)	Kevin Fang, Vaikkunth Mugunthan, Vayd Ramkumar, and Lalana Kagal		
BigD689 "Two-Stage Sampling: A Framework for Imbalanced Classification With Overlapped Classes" (Regular)	Neni Alya Firdausanti, Tirana Noor Fatyanosa, Mahendra Data, Israel Mendonca, and Masayoshi Aritsugi		
BigD489 "Data Virtual Machines: Simplifying Data Sharing, Exploration & Querying in Big Data Environments" (Short)	Damianos Chatziantoniou, Verena Kantere, Nikos Antoniou, and Angeliki Gantzia		
BigD819 "Efficient Privacy Preserving Record Linkage at Scale using Apache Spark" (Short)	Alexandros Karakasidis and Georgia Koloniari		
BigD332 "Clustering-based Unsupervised Generative Relation Extraction" (Short)	Chenhan Yuan, Ryan Rossi, Andrew Katz, and Hoda Eldardiry		
S23: Big Data in F	Real Life Applications (1)		
BigD500 "Semantic-based Attention model for Hospital Readmission Prediction" (Short)	Sea Jung Im, Yue Xu, and Jason Watson		
BigD502 "Graph Structure Neural Differential Equations on Spatio-temporal Prediction" (Short)	Hangtao He and Kejiang Ye		
BigD511 "Hypergraph Learning based Recommender System for Anomaly Detection, Control and Optimization" (Short)	Sakhinana Sagar Srinivas, Rajat Kumar Sarkar, and Venkataramana Runkana		
BigD523 "Auto-Regressive Self-Attention Models for Diagnosis Prediction on Electronic Health Records" (Short)	Pascal Wullschleger, Simone Lionetti, Donnacha Daly, Francesca Volpe, and Grégoire Caro		
BigD531 " Towards Automatic Cetacean Photo- Identification: A Framework for Fine-Grain, Few-Shot Learning in Marine Ecology" (Short)	Cameron Trotter, Nick Wright, A. Stephen McGough, Matt Sharpe, Barbara Cheney, Mònica Arso Civil, Reny Tyson Moore, Jason Allen, and Per Berggren		
BigD619 "Evaluating Distribution System Reliability with Hyperstructures Graph Convolutional Nets" (Short)	Yuzhou Chen, Tian Jiang, Miguel Heleno, Alexandre Moreira, and Yulia R. Gel		
S24: Data I	S24: Data Market and Trust		
BigD723 "A Task-Driven Privacy-Preserving Data- Sharing Framework For Industrial Internet" (Regular)	Parshin Shojaee, Yingyan Zeng, Muntasir Wahed, Avi Seth, Ran Jin, and Ismini Lourentzou		
BigD829 "FL-Market: Trading Private Models in Federated Learning" (Regular)	Shuyuan Zheng, Yang Cao, Masatoshi Yoshikawa, Huizhong Li, and Qiang Yan		
BigD388 "Robust Text CAPTCHAs Using Adversarial Examples" (Regular)	Rulin Shao		

BigD537 "SMARDY: Zero-Trust FAIR Marketplace for Research Data" (Short)	Ion Dorinel Filip, Cosmin Ionite, Alba Gonzalez-Cebrian, Mihaela Balanescu, Ciprian Dobre, Adriana E. Chis, Dave Feenan, Adrian-Alexandru Buga, Ioan-Mihai Constantin, George Suciu, George Iordache, and Horacio Gonzalez-Velez
BigD273 "Efficient Soft-Error Detection for Low- precision Deep Learning Recommendation Models" (Short)	Sihuan Li and Zizhong Chen
BigD441 "RAF: Recursive Adversarial Attacks on Face Recognition Using Extremely Limited Queries" (Short)	Keshav Kasichainula, Hadi Mansourifar, and Weidong Shi
S25: Complex Bi	g Data Applications (3)
BigD611 "Accurate Stock Movement Prediction with Self- supervised Learning from Sparse Noisy Tweets" (Regular)	Yejun Soun, Jaemin Yoo, Minyong Cho, Jihyeong Jeon, and U Kang
BigD735 "APIP: Attention-based Protein Representation Learning for Protein-Ligand Interface Prediction" (Regular)	Tian Xia, Bo Hui, and Wei-Shinn Ku
BigD397 "Penalty Prediction Based on Modulated Hierarchical Attention Coupled with Legal Attribute Recognition" (Short)	Jingzhe Liu and Peng Wu
BigD401 "An Open Case-based Reasoning Framework for Personalized On-board Driving Assistance in Risk Scenarios" (Short)	Wenbin Gan, Minh-Son Dao, and Koji Zettsu
BigD460 "Automatic Eating Behavior Detection from Wrist Motion Sensor Using Bayesian, Gradient Boosting, and Topological Persistence Methods" (Short)	Yu-Min Chung, Amir Nikooienejad, and Bo Zhang
S26: Deep lear	ning for Big Data (4)
BigD540 "RGB Color Model Aware Computational Color Naming and Its Application to Data Augmentation" (Regular)	Zipei Yan, Linchuan Xu, Atsushi Suzuki, Jing Wang, Jiannong Cao, and Jun Huang
BigD601 "Time Series Anomaly Detection using Prediction-Reconstruction Mixture Errors" (Regular)	Lawrence Wong, Dongyu Liu, Laure Berti-Equille, and Kalyan Veeramachaneni
BigD624 "DFFNet: Dynamic Feature Fusion Network for Weakly Supervised Object Detection in Remote Sensing Images" (Short)	Mengmeng Zhu, Shouhong Wan, Peiquan Jin, and Peiyi Zhang
BigD625 "Exploring the Target Distribution for Surrogate-Based Black-Box Attacks" (Short)	Raha Moraffah, Paras Sheth, and Huan Liu
BigD742 "Continuous Prompt Tuning Based Textual Entailment Model for E-commerce Entity Typing" (Short)	Yibo Wang, Congying Xia, Guan Wang, and Philip Yu
BigD585 "Forecasting Emerging Pandemics with Transfer Learning and Location-aware News Analysis" (Regular, video-presentation)	Jing Chen, German Creamer, and Yue Ning
S27: Machine learning	g algorithms for Big Data (3)
BigD699 "AnyStreamKM: Anytime k-medoids Clustering for Streaming Data" (Regular)	Jagat Sesh Challa, Dhruv Rawat, Navneet Goyal, and Poonam Goyal
BigD785 "Semi-supervised Embedding for Scalable and Accurate Time Series Clustering" (Regular)	Andrew Hill, Russell Bowler, Katerina Kechris, and Farnoush Banaei-Kashani
BigD813 "Multiple Tiered Treatments Optimization with Causal Inference on Response Distribution" (Regular)	Tao Huang, Qingyang Li, and Zhiwei Qin
BigD613 "Fast Support Vector Machine Using Singular Value Decomposition" (Short)	Sabuj Laskar and Muhammad Abdullah Adnan
BigD776 "Critic-over-Actor-Critic Modeling: Finding Optimal Strategy in ICU Environments" (Short)	Riazat Ryan and Ming Shao
BigD814 "Uncertainty Aware Trader-Company Method: Interpretable Stock Price Prediction Capturing Uncertainty" (Short)	Yugo Fujimoto, Kei Nakagawa, Kentaro Imajo, and Kentaro Minami

S28: Data Acquisition, Pre-processing, and Integration	
BigD728 "BigFeat: Scalable and Interpretable Automated	Hassan Eldeeb, Shota Amashukeli, and Radwa Elshawi
Feature Engineering Framework" (Regular)	Hassan Edeco, Shou Amashaken, and Radwa Eishawi
BigD580 "Operator Placement for Spatio-temporal Tasks" (Regular)	Daniel Glake, Mareike Schmidt, Felix Kiehn, Fabian Panse, Ulfia Lenfers, Thomas Clemen, and Norbert Ritter
BigD717 "GenSyn: A Multi-stage Framework for Generating Synthetic Microdata using Macro Data Sources" (Short)	Angeela Acharya, Siddhartha Sikdar, Sanmay Das, and Huzefa Rangwala
BigD721 "Generating Interpretable Features for Context- Aware Document Clustering: A Cybersecurity Case Study" (Short)	Luis Felipe Gutiérrez and Akbar Namin
BigD565 "Visualizing and Querying Large-scale Structured Datasets by Learning Multi-layered 3D Meta- Profiles" (Short)	Michael Gubanov and Sophie PAvia
BigD487 "Resource Efficient Profiling of Spatial Variability in Performance of Regression Models" (Short)	Menuka Warushavithana, Saptashwa Mitra, and Shrideep Pallickara
BigD533 "Proactive Query Expansion for Streaming Data Using External Sources" (Short)	Farah Alshanik, Amy Apon, Yuheng Du, Alexander Herzog, and Ilya Safro
S29: Visual A	nalytics for Big Data
BigD275 "DCPViz: A Visual Analytics Approach for Downscaled Climate Projections" (Regular)	Abdullah-Al-Raihan Nayeem, Huikyo Lee, Dongyun Han, Mohammad Elshambakey, William J. Tolone, Todd Dobbs, Daniel Crichton, and Isaac Cho
BigD646 "Shapelet-based Temporal Association Rule Mining for Multivariate Time Series Classification" (Regular)	Omar Bahri, Soukaina Filali Boubrahimi, and Shah Muhammad Hamdi
BigD833 "Visual Analytics System of Comprehensive Data Quality Improvement for Machine Learning using Data- and Process-driven Strategies" (Short)	Hyein Hong, Sangbong Yoo, Yejin Jin, Chanyoung Yoon, Soobin Yim, Seokhwan Choi, and Yun Jang
BigD486 "Characterizing Spontaneous Ideation Contest on Social Media: Case Study on the Name Change of Facebook to Meta" (Short)	Kunihiro Miyazaki, Takayuki Uchiba, Haewoon Kwak, and Jisun An
BigD554 "Learning on Health Fairness and Environmental Justice via Interactive Visualization" (Short)	Abdullah-Al-Raihan Nayeem, Ignacio Segovia-Dominguez, Huikyo Lee, Dongyun Han, Yuzhou Chen, Zhiwei Zhen, Yulia Gel, and Isaac Cho
S30: Trust, resilience,	privacy, and security issues
BigD420 "Fraud Detection via Contrastive Positive Unlabeled Learning" (Regular)	Vinay M.S., Shuhan Yuan, and Xintao Wu
BigD463 "MulBot: Unsupervised Bot Detection Based on Multivariate Time Series" (Regular)	Lorenzo Mannocci, Stefano Cresci, Anna Monreale, Athina Vakali, and Maurizio Tesconi
BigD709 "Defending Evasion Attacks via Adversarially Adaptive Training" (Regular)	Minh-Hao Van, Wei Du, Xintao Wu, Feng Chen, and Aidong Lu
BigD685 "Heterogeneous Randomized Response for Differential Privacy in Graph Neural Networks" (Short)	Khang Tran, Phung Lai, Hai Phan, Issa Khalil, Yao Ma, Abdallah Khreishah, My Thai, and Xintao Wu
BigD712 "Trustworthy Distributed Deep Neural Network Training in an Edge Devices Network" (Short)	Sudipta Saha Shubha and Haiying Shen
BigD559 "Asymmetric Differential Privacy" (Short)	Shun Takagi, Fumiyuki Kato, Yang Cao, and Masatoshi Yoshikawa
S31: Trust, resilience,	privacy, and security issues
BigD249 "User-Entity Differential Privacy in Learning Natural Language Models" (Regular)	Phung Lai, NhatHai Phan, Tong Sun, Rajiv Jain, Franck Dernoncourt, Jiuxiang Gu, and Nikolaos Barmpalios
BigD756 "Location-based Alert System Using Searchable Encryption with Hilbert Curve Encoding" (Regular)	Po-wei Harn, Sai Deepthi Yeddula, Libo Sun, Min-Te Sun, and Wei-Shinn Ku

S32: Social We	eb Search and Mining	
BigD493 "Proactive Prioritization of App Issues via Contrastive Learning" (Regular)	Moghis Fereidouni, Adib Mosharrof, Umar Farooq, and A.B. Siddique	
BigD603 "Abusive Language Detection with Graph based Multi-task Learning" (Regular)	Chunyun Zhang, Xi Zhang, Quan Wang, Jiayi Liang, Ge Zhang, Sanchuan Guo, Wenyu Zang, and Yongdong Zhang	
BigD353 "Emotion-Cause Relationship Between Clauses Prediction: a Novel Method Based on BERT for Emotion- Cause Pair Extraction" (Short)	Rui Fan, Tingting He, Yufan Wang, Jie Hong, and Xinhui Tu	
BigD766 "HyperTwitter: A Hypergraph-based Approach to Identify Influential Twitter Users and Tweets" (Short)	Lulwah Alkulaib, Abdulaziz Alhamadani, Shailik Sarkar, and Chang-Tien Lu	
BigD394 "Understanding COVID-19 Vaccine Campaign on Facebook with Minimal Supervision" (Regular, Video presentation)	Tunazzina Islam and Dan Goldwasser	
S33: Big Data in F	Real Life Applications (2)	
BigD737 "Transition-Aware Multi-Activity Knowledge Tracing" (Regular)	Siqian Zhao, Chunpai Wang, and Shaghayegh Sahebi	
BigD751 "Shape-based Evaluation of Epidemic Forecasts" (Regular)	Ajitesh Srivastava, Satwant Singh, and Fiona Lee	
BigD789 "Enhancing COVID-19 Ensemble Forecasting Model Performance Using Auxiliary Data Sources" (Regular)	Aniruddha Adiga, Gursharn Kaur, Benjamin Hurt, Lijing Wang, Przemyslaw Porebski, Srinivasan Venkatramanan, Bryan Lewis, and Madhav Marathe	
BigD627 "The impact of product descriptions on customers' trust in sellers and purchase intention" (Short)	Yi Sun and Yukio Ohsawa	
BigD644 "DL-BERT: a time-aware double-level BERT- style model with pre-training for disease prediction" (Short)	Xianlai Chen, Jiamiao Lin, and Ying An	
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BigD350 "How to Protect the Public Opinion Against New Types of Bots?" (Regular)	Jan Ludwig Reubold, Stephan Cornelius Escher, Christian Wressnegger, and Thorsten Strufe	
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BigD588 "New Technologies, Old Propaganda Strategies: How Russian Disinformation about Biolabs in Ukraine was spread via Conservative and Anti-Vaccination Discourse on Twitter" (Short)	Iuliia Alieva and Kathleen M. Carley	
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data"(Poster)	
N207 "TgraphSpot: Fast and Effective	Mirela Cazzolato, Saranya Vijayakumar, Xinyi Zheng,
Anomaly Detection for Time-Evolving	Meng-Chieh Lee, Namyong Park, Pedro Fidalgo, Bruno
Graphs" (Poster)	Lages, Agma Traina, and Christos Faloutsos
I&G S15: Big Data Applications (2)	

N215 "Decision Support for Disability	Ha Tran, Thuc Le, Jiuyong Li, Lin Liu, Jixue Liu,
Employment using Counterfactual Survival Analysis"(Regular)	Yanchang Zhao, and Tony Waters
N238 "System and Method on Order	Shubhi Asthana, Bing Zhang, Pawan Chowdhary, and Taiga
Management Using Neural Networks and	Nakamura
Risk Modeling" (Regular)	
N254 "Sensing Multi-modal Mobility	Zhiren Huang, Alonso Espinosa, and Charalampos Sipetas
Patterns: A Case Study of Helsinki	
using Bluetooth Beacons and a Mobile	
Application" (Regular)	Decrease Vin Turnese Deals Community I as and
N225 "Similarity-based Historical Input Selection to Predict Irregular Holiday	Pooreumoe Kim, Jungsoo Park, Seungyoun Lee, and Jungmin Kim
Traffics in Real-time" (Short)	Jungmin Kim
N228 "The Future of Extreme Weather	Chandrasekar Vuppalapati, Anitha Ilapakurti, Sharat
Events - Advanced Machine Learning and	Kedari, Jaya Shankar Vuppalapati, and Santosh Kedari
Artificial Intelligence for Democratic	,,,
Institution preparedness and enhanced	
National Food Security!"	
N264 "Implementation of Empath X SLA	Alvina Hui Shan Lee, Venky Shankararaman, and Eng Lieh
predictive tool for a Government	Ouh
Agency" (Short)	
I&G S16: Big Data Analysis (4)	
N295 "Flexible Partitioning of	Liu Yuxin and Kazuhiro Minami
Geographical Information based on GPS	
Coordinates for k-Anonymity" (Regular)	
N258 "A practical facility location	Shogo Takedomi and Tsukasa Ishigaki
optimization with uncertain variables	
in emergency road services" (Regular)	
N276 "Matching Attacks on Non-	Yutaka Abe and Kazuhiro Minami
deterministic Algorithms for Cell Suppression Problem for Tabular	
Data" (Short)	
N245 "Explainable Machine Learning	Daniel Fonner and Frank Coyle
Models for Evaluating Government	Daniel ronner and riank coyle
Grantmaking" (Short)	
N259 "Energy-based Domain Adaption with	Kyumin Lee, Guanyi Mou, and Scott Sievert
Active Learning for Emerging	1, 11, 11, 11, 11, 11, 11, 11, 11, 11,
Misinformation Detection" (Poster)	
N248 "Analysis and Estimation of News	Shotaro Ishihara and Yasufumi Nakama
Article Reading Time with Multimodal	
Machine Learning" (Poster)	

Workshops: Copy the table below

T'	TAL.	Duran and Angel Angel Lang
Time	Title	Presenter/Author
10:00 - 10:30	Coffee Break	
12:30 - 14:00	Lunch Brea	k
	·	

16:20 –	Coffee Break	
	Closing Remarks	

Special Sessions

5th Special Session on HealthCare Data (ONLINE)

Day 1: Saturday, December 17, 2022			
Time	Title	Presenter/Author	
14:00-14:10	Session Opening		
14:10-14:30	SP01201 - Evolving Perceptions of Mental Health on Social Media and their Medical Impacts	Kenna Reagan, Aparna Varde, and Lei Xie	
14:30-14:50	SP01204 - DPPIN: A Biological Repository of Dynamic Protein-Protein Interaction Network Data	Dongqi Fu and Jingrui He	
14:50-15:10	SP01205 - Is Unimodal Bias Always Bad for Visual Question Answering? A Medical Domain Study with Dynamic Attention	Zhongtian Sun, Anoushka Harit, Alexandra I. Cristea, Jialin Yu, Noura Al Moubayed, and Lei Shi	
15:10-15:30	SP01206 - Deep Pneumonia: Attention-Based Contrastive Learning for Class-Imbalanced Pneumonia Lesion Recognition in Chest X-rays	Xinxu Wei, Xiangke Niu, Xianshi Zhang, and Yongjie Li	
15:30-15:50	SP01208 - Deep Reinforcement Learning for Bandit Arm Localization	Wenbin Du, Huaqing Jin, Chao Yu, and Guosheng Yin	
15:50-16:10	SP01209 - Explainability Using SHAP for Epileptic Seizure Recognition	Simone Ludwig	
16:10-16:20	Break		
16:20-16:40	SP01211 - Semantic Dietary Personalization for Chronic Disease Management	Changhyub Woo, Byunghyun Kim, Jaehun Lee, Buhwan Jeong, Jinwoo Song, Carlo Allocca, and Rohit Ail	

16:40-17:00	SP01212 - Prototyping the Problem Oriented Medical Record for Connected Health Based on TypeGraphQL	Sabah Mohammed, Jinan Fiaidhi, and Darien Sawyer
17:00-17:20	SP01213 - Thick Data Techniques for Identifying Abnormality in Video Frames for Wireless Capsule Endoscopy	Jinan Fiaidhi, Sabah Mohammed, and Petros Zezos
17:20-17:40	SP012014 - Predicting Taxonomic Identity and Genetic Composition of Codon Usage Bias Levels Using Deep Learning Models	Lennart Buhl and Sayantica Pattanayak
17:40-18:00	SP01215 - DeePaGait: Motor Assessment of Parkinson's Disease Using a Multi-Layer 1D Convolutional Neural Network on Smartphone Gait Data	Hamza Abujrida, Emmanuel Agu, and Kaveh Pahlavan
18:00-18:20	SP01216 - Explainable Prediction of the Severity of COVID-19 Outbreak for US Counties	Shailik Sarkar, Abdulaziz Alhamadani, and Chang- Tien Lu
18:20-18:30	Session Closing	
Time	Day 2: Sunday, December 18, 2022 Title	Presenter/Author
14:00-14:10	Session Opening	Presenter/Author
14:10-14:30	SP012017 - Building a Patient-Centered Virtual	Sara A. Alsalamah, Shada AlSalamah, Walaa N. Ismail, Hessah
	Hospital Ecosystem Using Both Access Control and CNN-Based Models SP01218 - Anonymizing Periodical Releases of SRS	Alsalamah, and Chang- Tien Lu Yi-Yuang Wu, Zhi-Xun
14:30-14:50	Data by Fusinging Differential Privacy	Shen, and Wen-Yang Lin
14:50-15:10	SP01219 - HAR-CTGAN: A Mobile Sensor Data Generation Tool for Human Activity Recognition	Joshua DeOliveira, Walter Gerych, Aruzhan Koshkarova, Elke Rundensteiner, and Emmanuel Agu
15:10-15:30	SP01220 - Deep Video Action Recognition Models for Assessing Cardiac Function from Echocardiograms	Abdulsalam Almadani, Abhishek Shivdeo, Emmanuel Agu, and Jacques Kpodonu
15:30-15:50	SP01221 - Oversampling techniques for predicting COVID-19 patient length of stay	Zachariah Farahany, Jiawei Wu, K M Sajjadul Islam, and Praveen Madiraju
15:50-16:10	SP01222 - LSTM-based Pulmonary Air Leak Forecasting for Chest Tube Management	Roberto Corizzo, Rodrigo Yepez-Lopez, Sebastien Gilbert, and Nathalie Japkowicz
16:10-16:20	Break	
16:20-16:40	SP01223 - CCS Explorer: Relevance Prediction, Extractive Summarization, and Named Entity Recognition from Clinical Cohort Studies	Irfan Al-Hussaini, Davi Nakajima An, Albert J. Lee, Sarah Bi, and Cassie S. Mitchell
16:40-17:00	SP01224 - Typhon: Parallel Transfer on Heterogeneous Datasets for Cancer Detection in Computer-Aided Diagnosis	Giuseppe Cuccu, Christophe Broillet, Carolin Reischauer, Harriet Thoeny, and Philippe Cudre-Mauroux

17:00-17:20	SP01225 - Data-Driven Estimation of Effectiveness of COVID-19 Non-pharmaceutical Intervention Policies	yash mahajan, Sheikh Rabiul Islam, Mohammad Ruhul Amin, and Shubhra (``Santu'') Karmaker
17:20-17:40	SP01226 - DOD-Explainer: Explainable Drug Overdose Deaths Predictor from Crime and Socioeconomic Data	Abdulaziz Alhamadani, Shailik Sarkar, Lulwah Alkulaib, and Chang-Tien Lu
17:40-18:00	BigD314 - Swin-TCNet: A vision transformer-based method for automated chromosomal object detection	Chih-En Kuo, Chien- Hsing Lu, and Li-Yuan Huang
18:00-18:20	BigD408 - A Novel Contrast Enhancement Technique for Diabetic Retinal Image Pre-Processing and Classification	Huma Naz, Rahul Nijhwan, and Neelu Jyothi Ahuja
18:20-18:30	Session Closing	
	Day 3: Monday, December 19, 2022	
Time	Title	Presenter/Author
Time	Tiue	1 Teschiel/Author
14:00-14:10	Session Opening	1 resenter/Author
		Chih Lai, Carolin Poschen, Lisa Steinheuer, and Jorg Hackermuller
14:00-14:10	Session Opening BigD549 - Preserving Cluster Features in Imputing	Chih Lai, Carolin Poschen, Lisa Steinheuer, and Jorg Hackermuller Yen-Ning Su and Chih-En Kuo
14:00-14:10 14:10-14:30	BigD549 - Preserving Cluster Features in Imputing High Dimensional Data with Extensive Missing Rate BigD593 - An Automatic Sleep Arousal Detection Method by Enhancing U-Net with Spatial-channel	Chih Lai, Carolin Poschen, Lisa Steinheuer, and Jorg Hackermuller Yen-Ning Su and Chih-En
14:00-14:10 14:10-14:30 14:30-14:50	BigD549 - Preserving Cluster Features in Imputing High Dimensional Data with Extensive Missing Rate BigD593 - An Automatic Sleep Arousal Detection Method by Enhancing U-Net with Spatial-channel Attention BigD691 - Pseudo slicer on three dimensional brain	Chih Lai, Carolin Poschen, Lisa Steinheuer, and Jorg Hackermuller Yen-Ning Su and Chih-En Kuo Mohammad Iqbal, Fitria Urbach, Hsing-Kuo Pao, Anggraini Dwi Sensusiati, Nurul Hidayat, and Imam
14:00-14:10 14:10-14:30 14:30-14:50 14:50-15:10	BigD549 - Preserving Cluster Features in Imputing High Dimensional Data with Extensive Missing Rate BigD593 - An Automatic Sleep Arousal Detection Method by Enhancing U-Net with Spatial-channel Attention BigD691 - Pseudo slicer on three dimensional brain tumor segmentation BigD705 - Evaluating COVID-19 Sequence Data Using	Chih Lai, Carolin Poschen, Lisa Steinheuer, and Jorg Hackermuller Yen-Ning Su and Chih-En Kuo Mohammad Iqbal, Fitria Urbach, Hsing-Kuo Pao, Anggraini Dwi Sensusiati, Nurul Hidayat, and Imam Mukhlash

2022 Special Session on Machine Learning on Big Data

Day 1: Monday, December 19, 2022 - ONSITE			
Time	Title	Presenter/Author	
10:00 - 10:30	Coffee Break		
		Mst Shapna Akter, Hossain	
10:30-10:50		Shahriar, Sweta Sneha,	
10.30-10.30	SP02203 Multi-class Skin Cancer Classification	Alfredo Cuzzocrea, and	
	Architecture Based on Deep Convolutional Neural Network	Carson K. Leung	
10.50 11.10	SP02205 DVGAN: Stabilize Wasserstein GAN training for	Tom Dooney, Stefano	
10:50-11:10	time-domain Gravitational Wave physics	Bromuri, and Lyana Curier	

11:10-11:30	SP02208 Causal Discovery for Feature Selection in Physical Process-Based Hydrological Systems	Paras Sheth, Ting Liu, Durmus Doner, Yuhang Wei, Qi Deng, Rebecca Muenich, John Sabo, K. Selcuk Candan, and Huan Liu
11:30-11:50	SP02209 STCD: A Spatio-Temporal Causal Discovery Framework for Hydrological Systems	Paras Sheth, Reepal Shah, John Sabo, K. Selcuk Candan, and Huan Liu
11:50-12:10	SP02211 GAPS: Generality and Precision with Shapley Attribution	Brian Daley, Qudrat Ratul, Edoardo Serra, and Alfredo Cuzzocrea
12:10-12:30		
12:10-12:30	SP02218 Handwritten Word Recognition using Deep Learning Approach: A Novel Way of Generating Handwritten Words	Mst Shapna Akter, Hossain Shahriar, and Alfredo Cuzzocrea
12:30 - 14:00	Lunch Break	
		Zheng Dong, Quanjun
14:00-14:20	SP02221 Learning Latent Road Correlations from Trajectories	Chen, Renhe Jiang, Huanchen Wang, Xuan Song, and Hao Tian
14:20-14:40	SP02222 A Crowd Source System for Big Data Analytics for YouTube	Jagan Mohan Reddy Danda, Abhishek Attuluri, Hossain Shahriar, Alfredo Cuzzocrea, and Nazmus Sakib
14:40-15:00	SP02223 An Empirical Study of Domain Adaptation: Are We Really Learning Transferable Representations?	Nicholas Josselyn, Biao Yin, Ziming Zhang, and Elke Rundensteiner
15:00-15:20	N237 Efficient Comprehensive Element Identification in Large Scale Spectral Analysis with Interpretable	Xiang Xie and Wilhelm Stork
15:20-15:40	BigD306 OSP-Class: Open Set Pseudo-labeling with Noise Robust Training for Text Classification	Dohyung Kim, Jahwan Koo, and Ung-Mo Kim
15:40-16:00	BigD555 Badminton stroke classification based on accelerometer data: from individual to generalized models	Daniel Peralta, Ben Van Herbruggen, Jaron Fontaine, Wout Debyser, Jorg Wieme, and Eli De Poorter
16:00 - 16:30	Coffee Break	
	Day 1: Monday, December 19, 2022 - ONLIN	NE
Time	Title	Presenter/Author
16:30-16:50	SP02206 Graph Clustering using Node Embeddings: An Empirical Study [Short Paper]	Mahdi Ghanbari and Mostafa Haghir Chehreghani
16:50-17:10	SP02207 Autonomous Drug Design with Multi-armed Bandits	Hampus Gummesson Svensson, Esben Bjerrum, Christian Tyrchan, Ola Engkvist, and Morteza Haghir
17:10-17:30	SP02210 Distributional Shift Adaptation using Domain- Specific Features	Anique Tahir, Lu Cheng, Ruocheng Guo, and Huan Liu
17:30-17:50	SP02216 A Novel Machine Learning Based Framework for Bridge Condition Analysis	Mohammad Masum, Nafisa Anjum, Hossain Shahriar, Nazmus Sakib, Maria

		Valero, M.A. Karim, Akond
		Rahman, Fan Wu, and Alfredo Cuzzocrea
1= =0 10 10	SP02220 Multi-criteria Rating and Review based	Emrul Hasan, Chen Ding,
17:50-18:10	Recommendation Model	and Alfredo Cuzzocrea
18:10-18:30	SP02224 Distributed Heterogeneous Transfer Learning for	Paolo Mignone, Gianvito
10.10-10.50	Link Prediction in the Positive Unlabeled Setting	Pio, and Michelangelo Ceci
		Wei Zhu, Dongjin Song, Yuncong Chen, Wei Cheng,
		Bo Zong, Takehiko
18:30-18:50		Mizoguchi, Cristian
	SP02225 Deep Federated Anomaly Detection for	Lumezanu, Haifeng Chen,
	Multivariate Time Series Data	and Jiebo Luo
	Day 2: Tuesday, December 20, 2022 - ONSIT	ľE
10:00 – 10:30	Coffee Break	
10:30-10:50	BigD560 Density-Based Prototypical Contrastive Learning	Yueh-Lin Chung and Hsing- Kuo Pao
	on Visual Representations	Jill-Jenn Vie, Tomas
10:50-11:10	BigD664 Variational Factorization Machines for Preference	Rigaux, and Hisashi
	Elicitation in Large-Scale Recommender Systems	Kashima
		Mehak Khan, Gustavo B.
11:10-11:30	DiaD (00 IHTS CNN: A Simulified December of the Salama for	M. Mello, Paal Engelstad,
	BigD698 HITS-GNN: A Simplified Propagation Scheme for Graph Neural Networks	Laurence Habib, and Anis Yazidi
11 20 11 70	BigD729 Augmentation in the Embedding space for	Yi-Chieh Cheng and Hsing-
11:30-11:50	Contrastive Representation Distillation	Kuo Pao
		Soeren Becker, Kevin Styp-
11:50-12:10	BigD836 Federated Learning for Autoencoder-based	Rekowski, Oliver Vincent
	Condition Monitoring in the Industrial Internet of Things BigD844 AsyncFLEO: Asynchronous Federated Learning	Leon Stoll, and Odej Kao
12:10-12:30	for LEO Satellite Constellations with High-Altitude-	Mohamed Elmahallawy,
	Platforms	and Tony T. Luo
12:30 - 14:00	Lunch Break	
	Day 2: Tuesday, December 20, 2022 - ONLIN	NE
Time	Title	Presenter/Author
		Laura Rettig, Kurt
16:30-16:50	CD02226 Large Versal La Const Full III and	Baumann, Sebastian
	SP02226 Leveraging Knowledge Graph Embeddings to Disambiguate Author Names in Scientific Data	Sigloch, and Philippe Cudré-Mauroux
	Disamoiguate Author Names in Scientific Data	Jose Paolo Talusan, Ayan
16:50-17:10	SP02230 On Designing Day Ahead and Same Day	Mukhopadhyay, Dan
10:50-17:10	Ridership Level Prediction Models for City-Scale Transit	Freudberg, and Abhishek
	Networks Using Noisy APC Data	Dubey
17:10-17:30	BigD446 More is Less - Byte-quantized models are faster than bit-quantized models on the edge	Pengfei Zhang, Chenxia Han, and Eric Lo
4-40	BigD495 Stable Topological Feature Vectors via Hermite	Tran, and Effe LO
17:30-17:50	Function Expansion on Persistence Curves	Yu-Min Chung
17:50-18:10	BigD545 Scalable Learning with Incremental Probabilistic	Boshi Wang and Adrian
17.50-10.10	PCA	Barbu
	DigD749 Analysing I angituding 1 Seciel Seign	Vida Sharifian-Attar,
18:10-18:30	BigD748 Analysing Longitudinal Social Science Questionnaires: Topic modelling with BERT-based	Suparna De, Sanaz Jabbari, Jenny Li, Harry Moss, and
	Embeddings	Jon Johnson

		Vasundhara Acharya,
10.20 10.50		Anindita Ghosh, Inwon
18:30-18:50	SP02214 Landslide Likelihood Prediction using Machine	Kang, Thilanka
	Learning Algorithms	Munasinghe, and Binita KC

2022 Special Session on Privacy and Security of Big Data

	Day 1: Monday, December 19, 2022 - ONSIT	TE
Time	Title	Presenter/Author
10:00-10:30	Coffee Break	
10:30-10:50	SP03201 Homomorphic Encryption-Friendly Privacy- Preserving Partitioning Algorithm for Differential Privacy	Shojiro Ushiyama, Tsubasa Takahashi, Masashi Kudo, and Hayato Yamana
10:50-11:10	SP03202 Anomaly Detection in Cybersecurity Events a Through Graph Neural Network and Transformer Based Model: A Case Study with BETH Dataset	Bishal Lakha, Sara Mount, Edoardo Serra, and Alfredo Cuzzocrea
11:10-11:30	SP03203 Adaptive Attacks and Targeted Fingerprinting of Relational Data	Tanja Sarcevic, Rudolf Mayer, and Andreas Rauber
11:30-11:50	SP03204 Efficient Bayesian Network Construction for Increased Privacy on Synthetic Data	Markus Hittmeir, Rudolf Mayer, and Andreas Ekelhart
11:50-12:10	SP03209 An efficient approach for anonymising heterogeneous graph structures	Guillermo Alaman Requena, Andreas Ekelhart, and Rudolf Mayer
12:10-12:30	SP03210 Deep Learning Approach for Classifying the Aggressive Comments on Social Media: Machine Translated Data	Mst Shapna Akter, Hossain Shahriar, and Alfredo Cuzzocrea
12:10-12:30	BigD725 An Unified Noise and Watermark Removal from Information Bottleneck-based Modeling	Han-Juan Huang, Sheng- Wen Chen, and Hsing-Kuo Pao
12:30 - 14:00	Lunch Break	
14:00-14:20	BigD727 Differential Privacy-inspired Federated Split Learning for Anomaly Detection	Chi-Chen Liao and Hsing- Kuo Pao
14:20-14:40	BigD764 Mixers Detection in bitcoin network: a step towards detecting money laundering in crypto-currencies	Muhammad Mazhar Ullah Rathore, Sushil Chaurasia, and Dhirendra Shukla
14:40-15:00	BigD827 Permutation-Invariant Tabular Data Synthesis	Yujin Zhu, Zilong Zhao, Robert Birke, and Lydia Y. Chen
15:00-15:20	BigD839 A Crypto-Assisted Approach for Publishing Graph Statistics with Node Local Differential Privacy	Shang Liu, Yang Cao, Takao Murakami, and Masatoshi Yoshikawa
15:20-15:40		
15:40-16:00		
16:00 - 16:30	Coffee Break	
	Day 1: Monday, December 19, 2022 - ONLINE	
Time	Title	Presenter/Author

		Mat Channa Alatan MD
		Mst Shapna Akter, MD
		Jobair Hossain Faruk,
		Nafisa Anjum, Mohammad
16:30-16:50		Masum, Hossain Shahriar,
	GD0000CG C C C C C C C C C C C C C C C C C	Nazmus Sakib, Maria
	SP03206 Software Supply Chain Vulnerabilities Detection	Valero, Akond Rahman,
	in Source Code: Performance Comparison between	Fan Wu, and Alfredo
	Traditional and Quantum Machine Learning Algorithms	Cuzzocrea
		MD Jobair Hossain Faruk,
	SP03207 Authentic Learning of Machine Learning in	Hossain Shahriar, Kai Qian,
16:50-17:10	Cybersecurity with Portable Hands-on Labware: Neural	Dan Lo, Michael Whitman,
	Network Algorithms for Network Denial of Service (DOS)	Alfredo Cuzzocrea, and Fan
	Detection	Wu
17:10-17:30	SP03208 Predicting and Analyzing Privacy Settings and	Hsin-Yu Chen and Cheng-
17.10-17.50	Categories for Posts on Social Media	Te Li
		Giuseppe Cascavilla,
17:30-17:50		Reinier Zwart, Damian
17.30-17.30	SP03211 Explaining IoT Attacks: An Effective and	Tamburri, and Alfredo
	Efficient Semi-Supervised Learning Framework	Cuzzocrea
		Sabrina Ichou, Slimane
17:50-18:10		Hammoudi, Amel Benna,
17:50-16:10	SP03212 Privacy and security of mobile users in smart	Abdelkrim Meziane, and
	cities: an overview	Alfredo Cuzzocrea
10 10 10 20	SP03213 On using Node Indices and Their Correlations for	Sara Asghari and Mostafa
18:10-18:30	Fake Account Detection	Haghir Chehreghani
10 20 10 70	N294 HateNet: A Graph Convolutional Network Approach	Charles Duong, Lei Zhang,
18:30-18:50	to Hate Speech Detection	and Chang-Tien Lu
	Day 2. Tuesday, December 20, 2022, ONLIN	ATTP
	Day 2: Tuesday, December 20, 2022 - ONLIN	NL CONTRACTOR
Time	Day 2: Tuesday, December 20, 2022 - ONLIN	
Time 10:00 – 10:30	Title	Presenter/Author
10:00 - 10:30		
	Title	Presenter/Author
10:00 - 10:30	Title	Presenter/Author Ajesh Koyatan Chathoth,
10:00 - 10:30 10:30-10:50	Title Coffee Break	Presenter/Author Ajesh Koyatan Chathoth, Clark P Necciai Jr,
10:00 - 10:30	Title Coffee Break BigD265 Differentially Private Federated Continual	Presenter/Author Ajesh Koyatan Chathoth, Clark P Necciai Jr, Abhyuday Jagannatha, and
10:00 - 10:30 10:30-10:50	Title Coffee Break BigD265 Differentially Private Federated Continual Learning with Heterogeneous Cohort Privacy	Ajesh Koyatan Chathoth, Clark P Necciai Jr, Abhyuday Jagannatha, and Stephen Lee
10:00 - 10:30 10:30-10:50	Title Coffee Break BigD265 Differentially Private Federated Continual Learning with Heterogeneous Cohort Privacy BigD322 Exploring the Generalisability of Fake News	Ajesh Koyatan Chathoth, Clark P Necciai Jr, Abhyuday Jagannatha, and Stephen Lee Nathaniel Hoy and
10:00 - 10:30 10:30-10:50 10:50-11:10	Title Coffee Break BigD265 Differentially Private Federated Continual Learning with Heterogeneous Cohort Privacy	Ajesh Koyatan Chathoth, Clark P Necciai Jr, Abhyuday Jagannatha, and Stephen Lee Nathaniel Hoy and Theodora Koulouri
10:00 - 10:30 10:30-10:50 10:50-11:10 11:10-11:30	Title Coffee Break BigD265 Differentially Private Federated Continual Learning with Heterogeneous Cohort Privacy BigD322 Exploring the Generalisability of Fake News Detection Models	Ajesh Koyatan Chathoth, Clark P Necciai Jr, Abhyuday Jagannatha, and Stephen Lee Nathaniel Hoy and Theodora Koulouri Xinli. Shang, Pavi
10:00 - 10:30 10:30-10:50 10:50-11:10	Title Coffee Break BigD265 Differentially Private Federated Continual Learning with Heterogeneous Cohort Privacy BigD322 Exploring the Generalisability of Fake News Detection Models BigD361 One Stone, Three Birds: Finer-Grained Encryption	Ajesh Koyatan Chathoth, Clark P Necciai Jr, Abhyuday Jagannatha, and Stephen Lee Nathaniel Hoy and Theodora Koulouri Xinli. Shang, Pavi Subenderan, Mohammad
10:00 - 10:30 10:30-10:50 10:50-11:10 11:10-11:30	Title Coffee Break BigD265 Differentially Private Federated Continual Learning with Heterogeneous Cohort Privacy BigD322 Exploring the Generalisability of Fake News Detection Models BigD361 One Stone, Three Birds: Finer-Grained Encryption with Apache Parquet @ Large Scale	Ajesh Koyatan Chathoth, Clark P Necciai Jr, Abhyuday Jagannatha, and Stephen Lee Nathaniel Hoy and Theodora Koulouri Xinli. Shang, Pavi Subenderan, Mohammad Islam, and Jianchun Xu
10:00 - 10:30 10:30-10:50 10:50-11:10 11:10-11:30 11:30-11:50	Title Coffee Break BigD265 Differentially Private Federated Continual Learning with Heterogeneous Cohort Privacy BigD322 Exploring the Generalisability of Fake News Detection Models BigD361 One Stone, Three Birds: Finer-Grained Encryption with Apache Parquet @ Large Scale BigD386 Twitter Bot Detection Through Unsupervised	Ajesh Koyatan Chathoth, Clark P Necciai Jr, Abhyuday Jagannatha, and Stephen Lee Nathaniel Hoy and Theodora Koulouri Xinli. Shang, Pavi Subenderan, Mohammad Islam, and Jianchun Xu Jeremy Wu, Eric Teng, and
10:00 - 10:30 10:30-10:50 10:50-11:10 11:10-11:30	Title Coffee Break BigD265 Differentially Private Federated Continual Learning with Heterogeneous Cohort Privacy BigD322 Exploring the Generalisability of Fake News Detection Models BigD361 One Stone, Three Birds: Finer-Grained Encryption with Apache Parquet @ Large Scale	Presenter/Author Ajesh Koyatan Chathoth, Clark P Necciai Jr, Abhyuday Jagannatha, and Stephen Lee Nathaniel Hoy and Theodora Koulouri Xinli. Shang, Pavi Subenderan, Mohammad Islam, and Jianchun Xu Jeremy Wu, Eric Teng, and Ziyue Cao
10:00 - 10:30 10:30-10:50 10:50-11:10 11:10-11:30 11:30-11:50 11:50-12:10	BigD265 Differentially Private Federated Continual Learning with Heterogeneous Cohort Privacy BigD322 Exploring the Generalisability of Fake News Detection Models BigD361 One Stone, Three Birds: Finer-Grained Encryption with Apache Parquet @ Large Scale BigD386 Twitter Bot Detection Through Unsupervised Machine Learning	Ajesh Koyatan Chathoth, Clark P Necciai Jr, Abhyuday Jagannatha, and Stephen Lee Nathaniel Hoy and Theodora Koulouri Xinli. Shang, Pavi Subenderan, Mohammad Islam, and Jianchun Xu Jeremy Wu, Eric Teng, and Ziyue Cao Hiroaki Kikuchi, Satoshi
10:00 - 10:30 10:30-10:50 10:50-11:10 11:10-11:30 11:30-11:50	BigD365 Differentially Private Federated Continual Learning with Heterogeneous Cohort Privacy BigD322 Exploring the Generalisability of Fake News Detection Models BigD361 One Stone, Three Birds: Finer-Grained Encryption with Apache Parquet @ Large Scale BigD386 Twitter Bot Detection Through Unsupervised Machine Learning BigD510 Diseases Prediction from Officially Anonymized	Ajesh Koyatan Chathoth, Clark P Necciai Jr, Abhyuday Jagannatha, and Stephen Lee Nathaniel Hoy and Theodora Koulouri Xinli. Shang, Pavi Subenderan, Mohammad Islam, and Jianchun Xu Jeremy Wu, Eric Teng, and Ziyue Cao Hiroaki Kikuchi, Satoshi Ito, Kazuki Ikegami, and
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10:00 - 10:30 10:30-10:50 10:50-11:10 11:10-11:30 11:30-11:50 11:50-12:10	BigD365 Differentially Private Federated Continual Learning with Heterogeneous Cohort Privacy BigD322 Exploring the Generalisability of Fake News Detection Models BigD361 One Stone, Three Birds: Finer-Grained Encryption with Apache Parquet @ Large Scale BigD386 Twitter Bot Detection Through Unsupervised Machine Learning BigD510 Diseases Prediction from Officially Anonymized	Ajesh Koyatan Chathoth, Clark P Necciai Jr, Abhyuday Jagannatha, and Stephen Lee Nathaniel Hoy and Theodora Koulouri Xinli. Shang, Pavi Subenderan, Mohammad Islam, and Jianchun Xu Jeremy Wu, Eric Teng, and Ziyue Cao Hiroaki Kikuchi, Satoshi Ito, Kazuki Ikegami, and
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		Xie Yuxiang, Yan Jie, Luan
17:30-17:50		Xidao, Zhang Lili, Zhao
17:30-17:30	BigD708 A Novel Video Copy Subsequence Detection and	Yancheng, and Wei
	Location Method	Yingmei
17:50-18:10	BigD722 Federated Local Differential Privacy for	Manoj Reddy Dareddy and
17:30-18:10	Recommender Systems	Junghoo Cho
		Yijue Wang, Nuo Xu,
		Shaoyi Huang, Kaleel
18:10-18:30		Mahmood, Dan Guo,
10:10-10:30		Caiwen Ding, Wujie Wen,
	BigD744 Analyzing and Defending against Membership	and Sanguthevar
	Inference Attacks in Natural Language Processing	Rajasekaran
10.20 10.50	BigD757 Robust Stochastic Bandit algorithms to defend	Jayanth Yetukuri and Yang
18:30-18:50	against Oracle attack using Sample Dropout	Liu

8th Special Session on Intelligent Data Mining (ONLINE)

Day 1. Saturday Dasambor 17, 2022		
Day 1: Saturday, December 17, 2022		
Time	Title	Presenter/Author
	Multimodal Road Sign Interpretation for Autonomous	Joshua Lampkins, Darren
8:00-8:15	Vehicles	Chan, Alan Perry, Sasha
0.00 0.13		Strelnikoff, Jiejun Xu, and
		Alireza Esna Ashari
8:15-8:30	The Dynamics of Ukraine-Russian Conflict through the	Salim Sazzed
0.15-0.50	Lens of Demographically Diverse Twitter Data	
	Non-uniform Sampling Methods for Large Itemset Mining	Zahra Moteshaker Arani
8:30-8:45		and Mostafa Haghir
		Chehreghani
	Model-free feature selection to facilitate automatic	Girmaw Abebe Tadesse,
8:45-9:00	discovery of divergent subgroups in tabular data	William Ogallo, Celia
0.15 7.00		Cintas, and Skyler
		Speakman
	Inferring Phylogenetic Relationships using the Smith-	Anthony DeVito, Rafael
9:00-9:15	Waterman Algorithm and Hierarchical Clustering	Hidalgo, Nesreen Salah,
7.00 7.13		Aparna Varde, and Robert
		Meredith
	Detecting Dangerous Maritime Refugee Migration Paths	Semih Yumusak, Mustafa
9:15-9:30	through Cell Phone Activities	Coban, Yasin Yilmaz, and
		Hüseyin Oktay Altun
	Traffic Congestion Prediction Using Toll and Route Search	Yuto Kosugi, Itsuki
9:30-9:45	Log Data	Matsunaga, Hangli Ge,
7.00 7.10		Takashi Michikata, and
		Noboru Koshizuka
	Crosslingual Section Title Alignment in Wikipedia	Djellel Difallah, Diego
9:45-10:00		Saez-Trumper, Eriq
,,,,,		Augustine, Robert West,
		and Leila Zia
	ParaGraph: Mapping Wikidata Tail Entities to Wikipedia	Natalia Ostapuk, Djellel
10:00-10:15	Paragraphs	Difallah, and Philippe
		Cudre-Mauroux

10:15-10:30	Towards automating Numerical Consistency Checks in Financial Reports	Lars Hillebrand, Tobias Deußer, Tim Dilmaghani, Bernd Kliem, Rüdiger Loitz, Christian Bauckhage, and Rafet Sifa
10:30-10:45	A Big Data Application in Manufacturing Industry- Computer Vision to Detect Defects on Bearings	Perin Ünal, Özlem Albayrak, Meerim Kubatova, Bilgin U. Deveci, Ege Çırakman, İpek Koçal, and A. Murat Özbayoğlu
10:45-11:00	Multi-Component Optimization of Neural-Networks for IoT Devices	Bharath Sudharsan, Piyush Yadav, DineshKumar Sundaram, Pankesh Patel, John G Breslin, Muhammad Intizar Ali, Schahram Dustdar, Albert Zomaya, and Rajiv Ranjan
11:00-11:15	How to Prepare for the Next Pandemic – Investigation of Correlation Between Food Prices and COVID-19 From Global and Local Perspectives	Yufei Zhao, Chao Huang, and Jiebo Luo
11:15-11:30	Imbalanced Multi-layer Cloud Classification with Advanced Baseline Imager (ABI) and CloudSat/CALIPSO Data	Leah Ding, Roberto Corizzo, Colin Bellinger, Nancy Ching, Spencer Login, Rodrigo Yepez- Lopez, Jie Gong, and Dong L. Wu
11:30-11:45	Improving the co-training algorithm to enhance semi- supervised learning results	Ragini Kihlman and Maria Fasli
11:45-12:00	Doctors vs. Nurses: Understanding the Great Divide in Vaccine Hesitancy among Healthcare Workers	Sajid Hussain Rafi Ahamed, Shahid Shakil, Hanjia Lyu, Xinping Zhang, and Jiebo Luo
12:00-12:15	Signed Ego Network Model and its Application to Twitter	Jack Tacchi, Chiara Boldrini, Andrea Passarella, and Marco Conti
12:15-12:30	Academic Graph: A Literature Review System	Mustafa Çataltaş, Semih Yumusak, and Kasim Oztoprak
12:30-12:45	Control System Design and Implementation Based on Big Data and Ontology	Seyithan Temel, Emre Ummak, Abdülkadir Tokgöz, Furkan Işık, Özlem Albayrak, Perin Ünal, and Murat Özbayoğlu
12:45-13:00	A Context-Aware based Method for Indexing Large-Scale SpatioTemporal Data	Ruijie Tian, Fei Wang, Weishi Zhang, Junting Xiong, Huawei Zhai, and Jiexuan Du
13:00-13:15	Semantic Similarity Analysis between Future Topics and Their Neighbors in Topic Networks for Network-based Topic Evolution	Sukhwan Jung and Aviv Segev
13:15-13:30	NOMABER: A NOVEL FRAMEWORK FOR MULTI- TYPE ABNORMAL BEHAVIOR RECOGNITION	Ao Wang, Yongchen Yao, Yuhan Yao, and Jinpeng Chen
13:30-13:45	Break	

13:45-14:00	A Real-time, Scalable Monitoring and User Analytics Solution for Microservices-based Software Applications	Cathy Zhang and M Omair Shafiq
14:00-14:15	Text and Type Augmented Contrastive Representation Learning for Knowledge Graph Completion	Chao Wang, Faguo Zhou, Dongxue Sun, Yanan Song, Zhuanghao Cheng, Xueqiang Xu, and Junbin Liao
14:15-14:30	LAMPT: LAbel Mask-Predict Transformer for Extreme Multi-label Text Classification	Yifan Xu, Minghao Zhu, Junli Wang, and Chungang Yan
14:30-14:45	Emotion Recognition on StackOverflow Posts Using Bert	Donald Bleyl and Elham Buxton
14:45-15:00	AutoDPQ: Automated Differentiable Product Quantization Embedding Compression Framework	Xin Gan and Xiangyu Zhao
15:00-15:15	Implementation of Customized Promotion Scheme for The Retail Industry Using Machine Learning Techniques	Thisal Avishka Wijayasekara and P P G Dinesh Asanka
15:15-15:30	Personalized Content Based Package Recommendation Model for a Telecommunication Company Using Machine Learning	Nayushani Dambure Liyanage and P P G Dinesh Asanka
15:30-15:45	An Approximation Method for Querying Similar Large Graphs	Zhou Huang and Feng Zhou
15:45-16:00	Big data analysis reveals an emerging change in academia- industry collaborations in the era of digital convergence	Tomomi Yamazaki, Takahiro Miura, and Ichiro Sakata
16:00-16:15	Attending to Entity Class Attributes for Named Entity Recognition with Few-Shot Learning	Raj Nath Patel, Sourav Dutta, and Haytham Assem
16:15-16:30	3D-STGPCN: 3D Spatio-Temporal Graph Point-wise Convolutional Network for Traffic Forecasting	Manh-Phu Nguyen, Minh- Son Dao, and Thanh-Binh Nguyen
16:30-16:45	An AutoEncoder-based Numerical Tabular Data Augmentation	Jueun Jeong, Hanseok Jeong, and Hanjoon Kim
16:45-17:00	Efficient Data Analytics on Augmented Similarity Triplets	Sarwan Ali, Muhammad Ahmad, Umair ul Hassan, Muhammad Asad Khan, Shafiq Alam, and Imdadullah Khan
17:00-17:15	ASRC:A Knowledge Graph Relation Construction Model based on Active Learning and Semantic Recognition	Lizhuang Sun, Wenhui Hu, Kehui Xu, Yuhang Chen, Qidong Sun, and Jiaxi Wang
17:15-17:30	A Transformer-based Model on Tour Recommendation Problem using POIBERT	Ngai Lam Ho and Kwan Hui Lim
17:30-17:45	SplitDyn: Federated Split Neural Network for Distributed Edge AI Applications	Khoa Anh Tran, Do-Van Nguyen, Minh-Son Dao, and Koji Zettsu
17:45-18:00	A method for improving text classification tasks based on knowledge graphs for limited labeled data	Hongzhi Zhang and M. Omair Shafiq
18:00-18:15	Modeling user behavior dynamics on Social Media	Heba Zahran and Omair Shafiq
18:15-18:30	Impact Of Missing Data Imputation On The Fairness And Accuracy Of Graph Node Classifiers	Haris Mansoor, Sarwan Ali, Shafiq Alam, Muhammad Asad Khan, Umair ul Hassan, and Imdadullah Khan

18:30-18:45	Neuron-based Pruning of Deep Neural Networks with Better Generalization using Kronecker Factored Curvature Approximation	Abdolghani Ebrahimi and Diego Klabjan
18:45-19:00	Dot-Product Similarity based Centroid Clustering for Popular Topic Detection	Jenq-Haur Wang and Tzong-Ting Hsieh

8th Special Session on Information Granulation in Data Science and Scalable Computing (PART 1 ONLINE, PART 2 ONSITE)

	Day 1: Saturday, December 17, 2022 - ONLI	NE
Time	Title	Presenter/Author
16:00-16:20	Accelerating concept-dependent granulation technique using	Radoslaw Cybulski and
10.00-10.20	data decomposition	Piotr Artiemjew
16.20.16.40		Maciej Bartoszuk, Jaroslaw
16:20-16:40	Tensor-based Approach to Big Data Processing and Machine Learning	Litwin, Mateusz Wnuk, and Dominik Slezak
	Wachine Learning	Peifeng Zhang, Jiahui Chen,
16:40-17:00		Shicheng Wan, and
	Targeted Mining of Rare High-utility Patterns	Wensheng Gan
		Gengsen Huang, Wensheng
17:00-17:20		Gan, Long Li, and Tianlong
	Flexibly Mining Better Patterns	Gu
17:20-17:40		Jiayi Sun, Wensheng Gan, Jerry Chun-Wei Lin, and
17.20-17.40	Pattern Discovery with Utility Occupancy	Han-Chieh Chao
		Blazej Adamczyk, Maksym
		Brzeczek, Marcin Michalak,
		Iwona Kostorz, Lukasz
17:40-18:00		Wawrowski, Marek
	Dataset Generation Framework for Evaluation of IoT Linux	Hermansa, Michal Czerwinski, and Antoni
	Host-Based Intrusion Detection Systems	Jamiolkowski
		Tzung-Pei Hong, Wei-Teng
18:00-18:20		Hung, Wei-Ming Huang,
	Incremental Fuzzy Utility Mining with Tree Structure	and Yu-Chuan Tsai
10.20 10.40	II.'C. 1T	Tzung-Pei Hong, Jia-Xiang
18:20-18:40	Unified Temporal Erasable Itemset Mining with a Lower- Bound Strategy	Li, Yu-Chuan Tsai, and Wei-Ming Huang
	Dound Strategy	Mateusz Przyborowski,
18:40-19:00		Krzysztof Ciebiera, and
	Large Scale Windowed Matching	Krzysztof Stencel
	Day 2: Sunday, December 18, 2022 - ONSIT	
16:20-16:40	EVEAL - Expected Variance Estimation for Active	Daniel Kaluza, Andrzej
	Learning	Janusz, and Dominik Slezak
16:40-17:00	Adversarial Robustness of Uncertainty-Aware Deep Learning Decision-Making Systems	Lukasz Grad
	Similarity Analysis of Order Trajectory for Hospital	Tomohiro Kimura, Shusaku
17:00-17:20	Management	Tsumoto, and Shoji Hirano
17:20-17:40	Patients' Movement Analysis using Hospital Information	Tomohiro Kimura, Shusaku
1/;20-1/;40	System	Tsumoto, and Shoji Hirano
17:40-18:00	Approximation of the expectation-maximization algorithm	Mateusz Przyborowski and
2	for Gaussian mixture models on big data	Dominik Slezak

		Piotr Podolski, Tomasz
18:00-18:20	Data management in training AI chatbot with personality	Ludziejewski, and Hung
	based on granular computing	Son Nguyen

Special Session on Platform for DFFT (Data Free Flow with Trust) (ONSITE)

WorkshopChairs: Noboru Koshizuka, noboru@koshizuka-lab.org		
Time	Title	Presenter/Author
14:00~14:05	Opening Remarks	
14:05~14:25	SP06201: "Toward High-Resolution Regional Atmospheric Reanalysis for Japan: An Overview of the ClimCORE Project"	Hisashi Nakamura, Kenichi Kuma, Kazutoshi Onogi, Takafumi Miyasaka, Yasutaka Makihara, Junichi Ishida, and Makoto Iida
14:25~14:45	SP06202: "DATA-EX: Infrastructure for Cross-Domain Data Exchange Based on Federated Architecture"	Noboru Koshizuka and Hiroshi Mano
14:45~15:05	SP06203: "Data Leaves as Scenario-oriented Metadata for Data-driven Innovation on Trust"	Yukio Ohsawa, Kaira Sekiguchi, Tomohide Maekawa, Hiroki Yamaguchi, Yeon Hyuk Son, and Sae Kondo
15:05~15:25	SP06204: "Design for Data Structures : Data Unification and Federation with Wikibase"	Hiroki Uematsu, Phuc Nugyen, and Hideaki Takeda
15:25~15:45	BigD661: "The concept of data trading market with data usage rights and its approach to implement"	Hiroshi Mano and Keita Saito
15:45~15:55	Buffer time	
15:55~16:00	Closing Remarks	

Data-Driven Designation and Implementation of Automated Guided Vehicles (ONSITE)

WorkshopChairs: Jerry Chun-Wei Lin <jerrylin@ieee.org></jerrylin@ieee.org>				
Time	Title	Presenter/Author		
10:30-10:50	SP09201: An Efficient and Secured Energy Management System for Automated Guided Vehicles	Jia-Hao Syu, Jerry ChunWei Lin, and Dariusz Mrozek		
10:50-11:10	SP09202: Botnet Attack Intrusion Detection In IoT Enabled Automated Guided Vehicles	Sumaiya Shaikh, Ch. Rupa, Gautam Srivastava, and Thippa Reddy Gadekallu		
11:10-11:30	SP09205: Double-Environmental Q-Learning for Energy Management System in Smart Grid	Jia-Hao Syu, Jerry ChunWei Lin, and Philip S. Yu		
11:30-11:50	SP09207: General Concepts of a Simulation Method for Automated Guided Vehicle in Industry 4.0	Dariusz Marek, Piotr Biernacki, Jakub Szygula, and Adam Domanski		
11:50-12:10	SP09208: Analysis of web-based geo-visualization methods applied for Automated Guided Vehicle using Satellite Navigation Systems	Jakub Szygula, Dariusz Marek, Adam Domanski, Lukasz Sobczak, and Piotr Pawlas		

12:10-12:30	SP09209: Adaptive Data Forwarding for a Platoon based Vehicular Named Data Networking	Anu Kaushik, Deepanshu Garg, Anushka Nehra, Mohamed Baza, and Gautam Srivastava		
Lunch Break				
14:00-14:20	SP09210: Real-time testing of vision-based systems for AGVs with ArUco markers	Katarzyna Filus, Lukasz Sobczak, Joanna Domanska, Adam Domanski, and Rafal Cupek		
14:20-14:40	SP09212: Communication between AGV and standalone station via EtherCAT using WiFi - proof of concept	Ireneusz Smolka, Jacek Stoj, Piotr Gaj, and Marcin Fojcik		
14:40-15:00	SP09213: Neuro-heuristic pallet detection for AGV navigation	Katarzyna Prokop, Dawid Polap, and Gautam Srivastava		
15:00-15:20	SP09215: Automated Guided Vehicles Challenges for Artificial Intelligence	Rafal Cupek, Jerry ChunWei Lin, and J. H. Syu		
15:20-15:40	SP09216: Stream data clustering for engineering applications a use case of autonomous guided vehicles	Tomasz Steclik, Rafal Cupek, and Marek Drewniak		
15:40-16:00	SP09217: The forecast of the AGV battery discharging via the machine learning methods	Olena Pavliuk, Tomasz Steclik, and Piotr Biernacki		
	Closing Remarks			

Posters

Poster Session 01: XXXX		
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