The 4th IEEE International Workshop on Big Data for Financial News and Data Date: Thursday, Dec. 10, 2020 *WorkshopChairs: Quanzhi Li, Xiaozhong Liu, Sameena Shah*		
Time	**Title**	**Presenter/Author**
9:00AM - 9:20AM	*A Novel Hybrid Approach with A Decomposition Method and The RVFL Model for Crude Oil Price Prediction*	Chengyuan Zhang, Fuxin Jiang, Shouyang Wang, Wei Shang
9:20AM - 9:45AM	*DeepCatch: Predicting Return Defaulters in Taxation System using Example-Dependent Cost-Sensitive Deep Neural Networks*	Priya Mehta, Ch Sobhan Babu, S.V. Kasi Visweswara Rao, Sandeep Kumar
9:45AM - 10:10AM	*Hardening Soft Information: A Transformer-Based Approach to Forecasting Stock Return Volatility*	Matthew Caron and Oliver Müller
10:10AM -10:35AM	*Exploring market power using deep reinforcement learning for intelligent bidding strategies*	Alexander Kell, Matthew Forshaw, and A. Stephen McGough
10:35AM -11:00AM	*Predicting Stock Price Movements with Text Data using Labeling based on Financial Theory*	Fredrik Ahnve, Kasper Fantenberg, Gustav Svensson, Daniel Hardt
11:00AM-11:15AM	**Coffee Break**	
11:15AM-11:40AM	*Repeating Link Prediction over Dynamic Graphs*	Daniele Montesi, Vladimir Vlassov, and Sarunas Girdzijauskas
11:40AM-12:05PM	*Anomaly Detection in Exchange Traded Funds*	Nitish Bahadur, Randy Paffenroth
12:05PM-12:30PM	*Large Scale Financial Filing Analysis on HPCC Systems*	Matthias Murray, Lili Xu, Arjuna Chala, and Roger Dev
12:30PM-12:55PM	*Causal Maps for Multi-Document Summarization*	Sasha Strelnikoff, Aruna Jammalamadaka, Dana Warmsley
12:55PM-13:20PM	*Large-scale Data-driven Segmentation of Banking Customers*	Md Monir Hossain, Mark Sebestyen, Dhruv Mayank, Omid Ardakanian, Hamzeh Khazaei
13:20PM	*NLP@Alibaba*	Quanzhi Li
	Closing Remarks	