	LSN Huge Data Works	shop Agenda	
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	Monday Afternoon	April 13, 2020	
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*All Times Eastern Tin			
<b>12:00pm</b> EDT	Workshop Begins		
12:00-12:10 EDT	Introduction	(KC Wang, Jim Griffio	en, Ron Hutchins, Zongming Fei)
12:10-12:20 EDT	NSF Welcome	(	
	Deepankar Medhi	Program Director	
	Erwin Gianchandani	Deputy Assistant Dire	ctor for CISE
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12:20-12:50 EDT	Keynote		
	Craig Partridge	Colorado State	Are Our Networks Trashing Our Files?
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12:50-1:30 EDT	Data Generation	(Session chair: Jim G	riffioen Zoom moderator: KC Wang Note taker: Zongming Fei)
	Jim Kenyon	Michigan	Modern Research Imaging and X-omics
	Cody Bumgardner	Kentucky	Huge Data in Medicine Workshop 2020
	Soumya Rao	Missouri	Computational Challenges in Genomic Data Analyses
	Zachary Jacokes	Virginia	Computational Needs for Multimodal Explorations in Differential Autism Spectrum Disorder Phenotypes
	Yunsheng Wang	Kettering	Huge Data for Connected Vehicles
	Hongxin Hu	Clemson	Trustworthy AI for Huge Data Generation and Process From IoT Devices
1:30-1:50 EDT	Break	Please join a hallway	conversation
1:50-2:40 EDT	Data Storage	(Session chair:Zongm	ing Fei Zoom moderator: KC Wang Note taker: Ron Hutchins)
	David Halstead	NRAO	Next Generation Very Large Array Communications
	Frank Wuerthwein	UCSD	HL-LHC Data Challenges
	Khulud Alsultan	Missouri	Scalable Characteristic Mode Analysis: Requirements and Challenges
	Micah Beck	Tennessee	Location, Location, Location: The Exposed Buffer Approach to Problems of Data Logistics
	lan Foster	ANL	Building a Global Research Data Platform: Globus Perspectives
	Seymour Douglas	Ithaka . org	The Informational Value of Another Column in Massive Data and Feature Stores
	Jian Wu	Old Dominion	Scholarly Very Large Data: Challenges For Digital Libraries
2:40-3:00 EDT	Break	Please join a hallway	conversation
3:00-4:00 EDT	Huge Data Issues Discussion	Ron Hutchins (leader)	Huge Data Issues Discussion, Tuesday's Breakout Preview, Other Suggestions and Topics
5.00-4.00 LD1	וועשפ שמנמ וששענים שושכעששוניו	. to./ ratorimo (roudor)	riage Data issues Discussion, Tuesday's Dieanout Fleview, Other Suggestions and Topics

	Tuesday	April 14, 2020			
10:00-11:20 EDT	Data Movement	Sossion chair: KC Wa	ang; Zoom moderator: Zongming Fei; Note taker: Jim Griffioen		
10:00-11:20 EDI	Leon Reznik	RIT	From Data Communication to Delivery of Quality Data		
	Wenji Wu	Fermilab	BigData Express: Toward Schedulable, Predictable, and High-Performance Data Transfer		
	Shawn McKee	Michigan	Networking Areas of Interest for HEP		
	Igor Sfiligoi	UCSD	Characterizing networking as experienced by users		
	Celeste Anderson	Pacific Wave	Pacific Wave Support of Huge Data applications		
	Hans Addleman	Indiana	EPOC: Roadside Assistance to the Rescue!		
	Jacob Fosso Tande	UNC-Greensboro			
			Mitigating the dilemma of huge data flow at the University o fNorth Carolina, Greensboro		
	Joe Mambretti	Northwestern	Next Generation Infrastructure for Big Data Science		
	Engin Arslan	Nevada	End-to-End Parallelism for Distributed Science Workflows		
	George Papadimitriou	RENCI	Leveraging Dynamic Resource Provisioning and In-network Processing for Scientific Workflows Operating on Huge Data		
	Edmund Yeh	Northeastern	An SDN/NDN Integrated Big Data Ecosystem for Big Science		
	Harvey Newman	Caltech	Update on Network Requirements and Computing Model R&D for the HL-LHC Era		
	Violet Syrotiuk	ASU	Challenges with Petabyte-Scale Flows and Beyond		
	Clifford Lynch	CNI	Shipping Computation to Very Large Data – an Old Idea Demanding Reexamination		
11:20-11:40 EDT	Break				
11:40-12:30 EDT	Breakout Session				
	Room1 New Areas of Research Beyond Big Data (Facilitator: KC; Note Taker: Ron)				
	Room2 New Types of Data & Ways to Get Them (Facilitator: Jim; Note Taker: Zongming)				
12:30-1:00 EDT	Lunch Break	Please join a hallway	over-lunch conversation		
1:00-2:20 EDT	Data Processing and Security	Session chair: Jim Gr	iffioen; Zoom moderator: KC Wang Fei; Note taker: Zongming Fei		
	Mariam Kiran	ESnet	Debugging Bad Performance in Huge Infrastructure: Using ML and AI		
	Liqiang Wang	Central Florida	Optimizing Big Data Applications Using Hybrid Program Analysis		
	Richard Yang	Yale	Toward Collaborative Networks and Applications (CNA) as a Key Component for Huge Data Networking		
	Zhili Zhang	Minnesota	5G, Edge Computing and Future Network Support for Huge Data		
	Hao Che	UTArlington	STITCH: Orchestrating Sensing-as-a-Service at Scale		
	Ling Liu	Georgia Tech	Improving Huge Data Analytics with In-Network Memory Computing		
	Joaquin Chung	ANL	Leveraging Network Programmability and In-network Computing for Streaming Analysis of Huge Data		
	Malathi Veeraraghavan	Virginia	Challenges with collecting, anonymizing, sharing and using high-speed network-traffic data		
	Sheng Di	Chicago/ANL	Lossy compression for transferring, storing and analyzing huge scientific datasets		
	Jon Calhoun	Clemson	Error-bounded Fixed-ratio Lossy Compression for Scientific Data		
	Tony Luo	MissouriUST	Scalable Distributed Machine Learning with Huge Data for IoT and Scientific Discovery		
	Saptarshi Debroy	CUNY	Multi-Cloud Performance and Security-driven Brokering for Bioinformatics Workflows		
	Kaiqi Xiong	South Florida	Deep Learning for Adversarial Attacks in Large Scale Networks		
	Lan Wang	Memphis	Toward a Name-Based Data-Centric Platform for Scienti <sup>2</sup> c Research		

2:20-2:40 EDT	Break	Please join a hallway conversation	
2:40-3:40 EDT	Breakout Session		
	Room3	Collaboration across Disciplines (Facilitator: Ron; Note Taker: KC)	
	Room4	Critical Research Infrastructure Needed Beyond Big Data (Facilitator: Zongming; Note Taker: Jim)	
3:40-4:20 EDT	Breakout Report	Leaders from the Breakout Sessions will report on their discussions	
4:20-5:00 EDT	Key Observations Discussion	Ron Hutchins (leader) Discuss findings and key observations	