

Expanding IEEE's reach to Industry ...Data-based Projects... ...Practitioners, Non-Society Members, YP's, WiE,... Dr. Rakesh Kumar, IEEE Life Fellow IEEE/TA Data-based Strategy Ad Hoc Committee Chair Past-Chair IEEE Roadmaps rakesh@tcxinc.com

2024R10 GM March 2-3, 2024

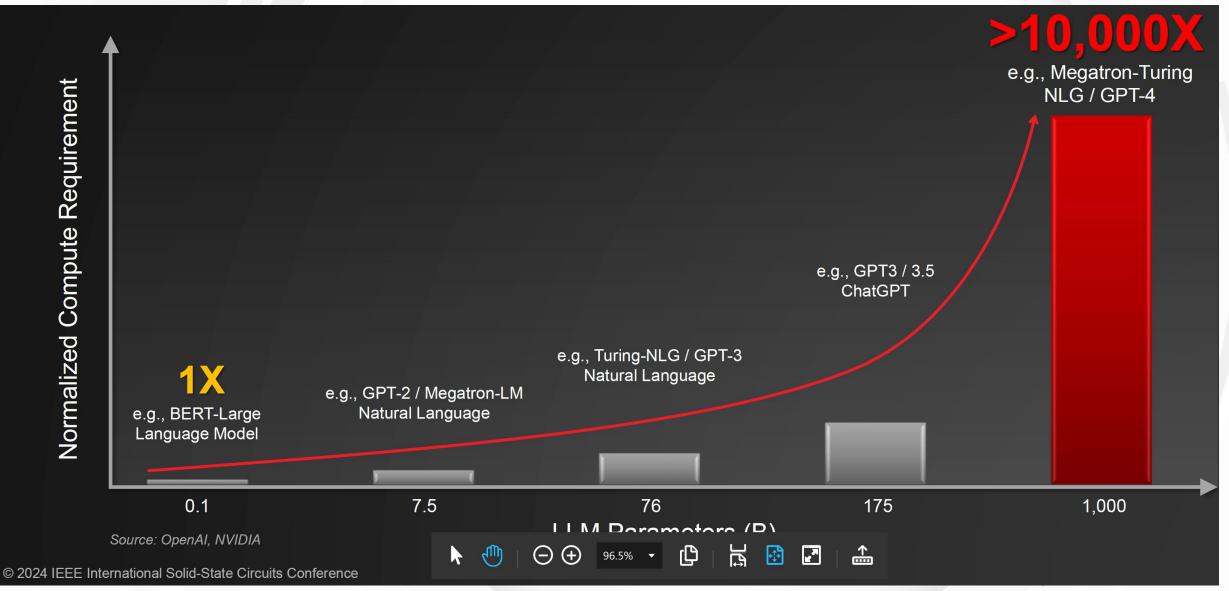
Data-Based Business Strategy Ad Hoc Committee

- Launched as an IEEE Ad Hoc committee in 2022
 - Currently continuing as a TA Ad Hoc committee
- Some Trends
- DataPort 2.0

The world is generating ZetaBytes of DATA



Generative AI significantly Accelerating compute needs



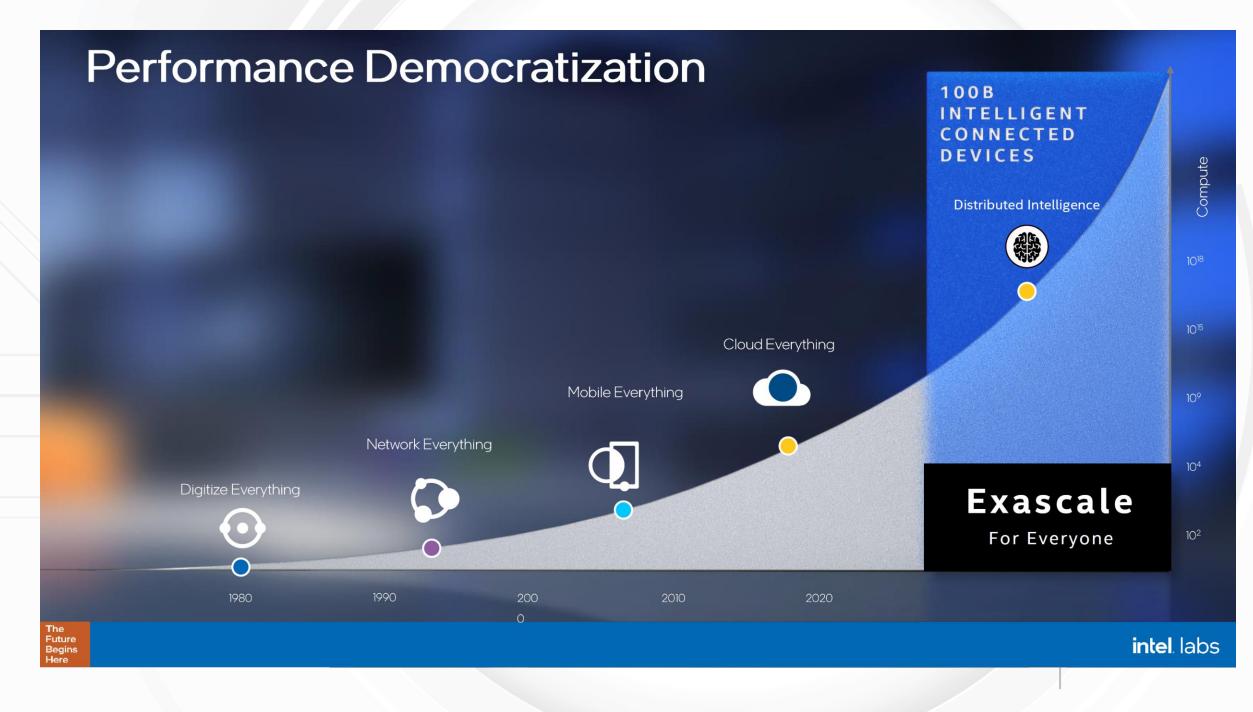
Ref: TSMC Kevin Zhang, ISSCC February 19, 2024

From Pat Gelsinger, Intel CEO...





Ref: Pat Gelsinger, Intel Investor Day, June 2022



Technology has changed Lives....

...Many of <u>you are</u> creating solutions....

...Many Many more challenges & solutions on the way!!!....

... Many New PRODUCT Opportunities...

...Many TECHNOLOGY Innovations needed... Multi-disciplinary Integrations

IEEE Has an Extensive Data Portfolio



How do we create additional VALUE from our DATA?



Four Product Categories Explored...



- Knowledge search engine
- ➤ "RAG"* AI
- Answers Q's based on IEEE info
- IEEE maintains IP ownership





DataPort

- Derive Pubs & Conference Data
- Create Tech Trend Reports
- Market to CxO's, Analysts

A.I. Use Cases Digital Transformation

- From Data Warehouse to Knowledge Partner
- Understand Customer Interests
- Offer relevant solutions



IEEE DataPort Valuable Tool for Research Data Management



access.

Learn More

IEEE DataPort is completely free.

Learn More

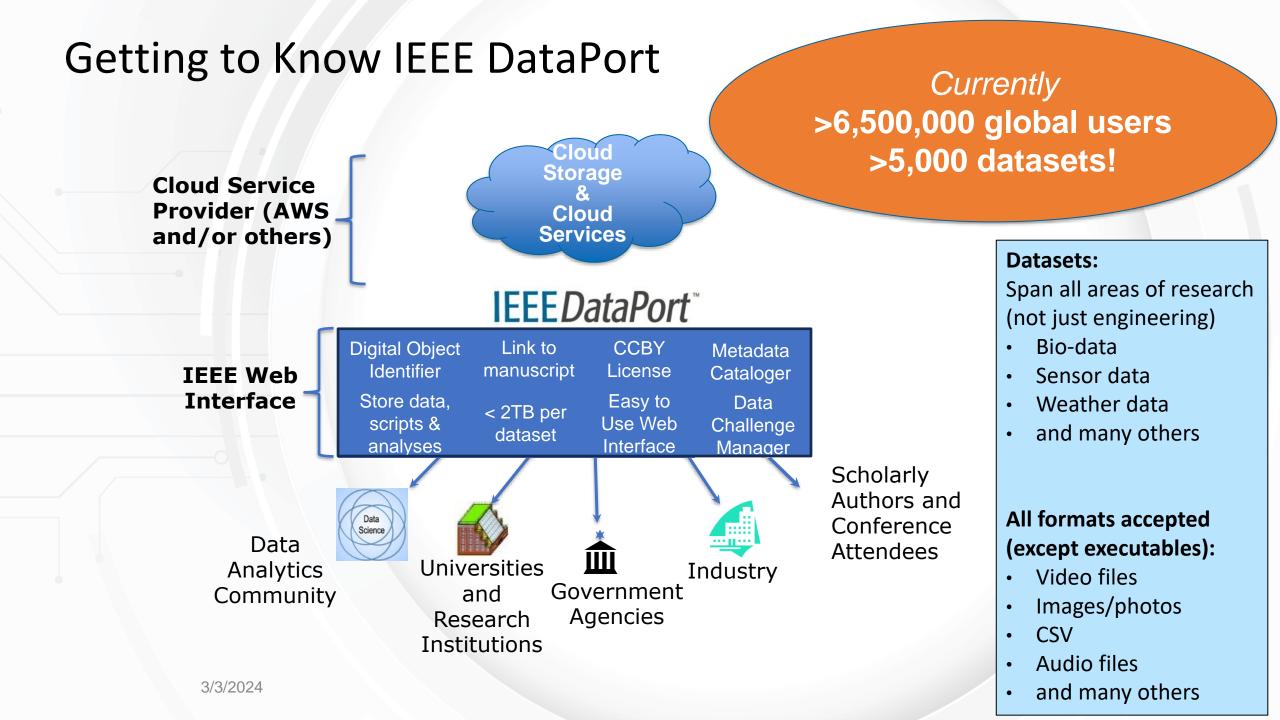
datasets or access them directly on AWS. Learn More



Learn More







DataPort – some current statistics

- ~7M Users (cumulative)
- ~10K Users/DAY
- ~5,500 Datasets
- > Over 90% of IEEE publications offer authors to upload their datasets
- Institutional subscriptions are gaining momentum

NIC* \$1M funding to DOUBLE usage in 2024



IEEE DataPort - Users 3 of 5 Top countries are from Region 10 India has the MOST USERS (~20%)

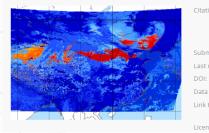
Top countries (#Users)			
	<u>2022</u>	<u>2023</u>	
 Bangladesh 	57K	980K	
India	572K	547K	
Algeria	35K	437K	
 Nepal 	34K	195K	
 Egypt 	34K	136K	
• USA		103K	

IEEE DataPort 2023 Climate Change Contest

...Winner from China

.Runner-up from Meghalaya, India

LSDSSIMR: LARGE-SCALE DUST STORM DATABASE BASED ON SATELLITE IMAGES AND METEOROLOGICALL REANALYSIS DATA



on Author(s):	Cong Bai Zhipeng Cai Xiaomei Yin Jinglin Zhang
nitted by:	zhipeng cai
updated:	Tue, 10/31/2023 - 04:41
	10.21227/g8x0-1744
Format:	HDF5
o Paper:	LSDSSIMR: Large-Scale Du and Meteorologicall Reana

Cong Bai	477 V
Zhipeng Cai	Categorie
Xiaomei Yin	-
Jinglin Zhang	
zhipeng cai	
Tue, 10/31/2023 - 04:41	
10.21227/g8x0-1744	
HDF5	
LSDSSIMR: Large-Scale Dust Storm Database Based on Satellite Ima	ges Keywords
and Meteorologicall Reanalysis Data	
Creative Commons Attribution 🞯 🛈	

Artificial Intelligence Machine Learning Geo-Sensing Computer Vision Climate Change/Environmenta Weather Geoscience and Remote Sensing Remote Sensing Dust storm: Database: FY-4A: Mete Remote sensing; Geoscience;

IEEEDataPort

Win \$10,000!

First Place will win \$10,000 2 Runners Up will win \$5.000 August 1 - October 31, 2023

Links:



403 Views

Bi-Directional LSTM Model for Accurate and Real-Time Landslide Detection: A Case Study in Mawiongrim, Meghalaya, India

Bi-Directional LSTM Model for Accurate and Real-Time Landslide Detection: A Case Study in Mawiongrim, Meghalaya, India

Creative Commons Attribution @@

IEEE

https://ieee-dataport.org/news/finding-solutions-climate-change-crisis-one-dataset-time

https://ieee-dataport.org/documents/lsdssimr-large-scale-dust-storm-database-based-satellite-images-and-meteorologicall

https://ieee-dataport.org/documents/real-time-landslide-dataset-mawiongrim-meghalaya-india

REAL-TIME LANDSLIDE DATASET OF MAWIONGRIM, MEGHALAYA, INDIA

Dataset Upload Contest

Climate Change

IEEE Data Descriptions

IEEE Data Descriptions is a journal that publishes short articles on all aspects of data: data descriptors, data collections, and metadata. Its overarching purpose is to promote publicly available datasets (open access or subscription-based access) in support of reproducible science while at the same time bringing insights into the associated dataset, data collection methods, and data quality. The metadata collected provides enhanced dataset discoverability and creates a foundation for future data science tools such as auto-discovery and mashups.

https://open.ieee.org/ieee-announces-6-new-fully-open-access-journals-and-3hybrid-journals-coming-in-2024/



DataPort Opportunities

- Upload your Data...Share...Get free DOI and make Data citable
 - Free uploads and downloads for Society Members
 - Normal charge for OPEN Access Dataset uploads
 - > ALL Datasets available for download for a subscription fee for non-members and non-Society members
- Design and other Competitions Data storage and sharing
 - We are looking for a few DataPort "Ambassadors" 5 from each Region



"DataPort Ambassador" Roles

- Promote DataPort (and other Data products) in the region
- Gather and report on Region Data needs
- Local Point-of-Contact
- Maintain local KPI's

Please reach out to <u>rakeshk@ieee.org</u> <u>Melissa.handa@ieee.org</u>

