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Hui Xiong, PhD

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Professor Hui Xiong currently holds several esteemed positions at the Hong Kong University of Science and Technology (Guangzhou), including Chair Professor, Associate Vice President for Knowledge Transfer, and Founding Head of the Artificial Intelligence Thrust. Before joining HKUST, he also served as a Distinguished Professor at Rutgers University, Chief Scientist (Smart City) and Deputy Dean of Baidu Research Institute, leading five research labs in his charge. He has received numerous honors and awards, including being elected as Fellow of the American Association for the Advancement of Science (AAAS), Distinguished Scientist of the Association for Computing Machinery (ACM), Fellow of the Institute of Electrical and Electronics Engineers (IEEE), and Fellow of the Association for the Advancement of Artificial Intelligence (AAAI).

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CENTAI

Turin, Italy

Francesco Bonchi is Co-Founder and Research Director at Centai (Center for Artificial Intelligence), Turin, Italy. Earlier he was Scientific Director at the ISI Foundation, Turin, Italy, and Director of Research at Yahoo Labs in Barcelona, Spain. His recent research interests include algorithms and learning on graphs and complex networks, fair and explainable AI, and more in general, privacy and all ethical aspects of data analysis and AI. He has more than 250 publications in these areas. He also got granted 9 US patents. He is member of the Steering Committee of ECML PKDD and IEEE DSAA, and is in the editorial board of several journals in the Data Science area. He has been PC Chairs of many international conferences, including ECML PKDD (2010 and 2018), the 16th IEEE International Conference on Data Mining (ICDM 2016), the 28th ACM Conference on Hypertext and Hypermedia (HT 2017), the "Social Network Analysis and Graph algorithms for the Web" track @ The International World Wide Web Conference (WWW 2018), the 6th IEEE International Conference on Data Science and Advanced Analytics (DSAA 2019), among the others. Dr. Bonchi has been the General Co-Chair of the 5th IEEE International Conference on Data Science and Advanced Analytics (DSAA 2018), the 2023 European Conference on Machine Learning and Principles and Practice of Knowledge Discovery in Databases (ECML PKDD 2023), and ACM SIGKDD 2024.

Xin Gao, PhD

Chair and Professor, Computer Science Program; Chair, Center of Excellence on Smart Health

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Prof. Xin Gao is Chair and Professor of Computer Science Program in Computer, Electrical and Mathematical Sciences and Engineering Division at King Abdullah University of Science and Technology (KAUST). He is also the Chair of Center of Excellence (CoE) on Smart Health and Chair of the Bioinformatics Platform at KAUST. Prior to joining KAUST, he was a Lane Fellow at Lane Center for Computational Biology in School of Computer Science at Carnegie Mellon University. He earned his bachelor degree in Computer Science in 2004 from Tsinghua University and his Ph.D. degree in Computer Science in 2009 from University of Waterloo. He is a world-renowned expert on developing AI solutions for diagnostics of genetic diseases and cancers, drug development, and biomedical imaging. He has published more than 400 papers, with a citation of over 10000 and h-index of 56.

Vipin Kumar, PhD
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Kumar's research spans data mining, high-performance computing, and their applications in Climate/Ecosystems and health care. He has authored over 400 research articles, and co-edited or coauthored 11 books including two text books ``Introduction to Parallel Computing", "Introduction to Data Mining" that are used world-wide and have been translated in to many languages. Kumar's research over the past several decades has been focused on advancing machine learning to help address some of the biggest challenges facing the humanity in the areas of climate change, food/water security, and health care. One of his recent major contribution has been the creation of a brand-new field of research at the intersection of AI and Science termed knowledge-guided machine learning (KGML), where scientific knowledge is deeply integrated in the design and training of machine learning models to accelerate scientific discovery. Kumar is a Fellow of AAAI, AAAS, ACM, IEEE, and SIAM. His foundational research in data mining and HPC has been honored by the ACM Special Interest Group on Knowledge Discovery and Data Mining 2012 Innovation Award, the highest award for technical excellence in the field of Knowledge Discovery and Data Mining (KDD); and the 2016 Sidney Fernbach Award, one of IEEE Computer Society's highest awards in high-performance computing.

Yan Liu, PhD
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Prof Liu's research interest spans from developing novel machine learning models and theories to applying these models to practical problems in health, sustainability, finance, etc. Her recent work include time series foundation models, explainable AI, and physics-informed machine learning.

Patrick Rebentrost, PhD
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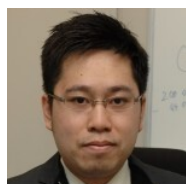Singapore

Patrick Rebentrost is an Assistant Professor at the School of Computing, Department of Computer Science, NUS, and a principal investigator at the Centre for Quantum Technologies. His research interests are in quantum computing, quantum algorithms, quantum machine learning, learning theory, and mathematical finance.

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Chandan Reddy's primary research interests are Machine Learning and Natural Language Processing with applications to

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Prof. WONG, Ka Chun has a PhD degree from Department of Computer Science at University of Toronto. His research group has published more than 100 academic papers on a wide range of high-impact venues for bioinformatics and artificial intelligence. He was elected as a governor of APNNS for three times and served as ACM Distinguished Speaker from 2019 to 2022. In particular, he is ranked among the Stanford's top 2% most highly cited scientists (versions 5, 6, and 7) as of May 2025.

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Iryna Omelchenko joined *Nature Communications* in April 2020. After receiving a Diploma in applied mathematics from the Ivan Franko National University of Lviv in Ukraine, she obtained her PhD in mathematics and physics from the National Academy of Sciences of Ukraine. Iryna continued her research at the Technical University of Denmark, Institute of Mathematics of the National Academy of Sciences of Ukraine, Potsdam University in Germany, Bernstein Center for Computational Neuroscience, and at the Technische Universität Berlin. Her background covers the theory of dynamical systems, complex networks, collective phenomena, synchronization, spatio-temporal patterns in networks, and their control. Iryna handles manuscripts on networks machine learning and data science, she is based in the Berlin office.

Marcel Bigorajski, PhD, Springer Nature, Germany

Marcel joined the *Nature Communications* team in August 2024. He obtained his PhD in Mathematics from the University of Göttingen, with a focus on differential equations related to gauge theory and theoretical physics, using methods from geometry and machine learning. He primarily handles manuscripts on machine learning and data science. Marcel is based in the Berlin office.

Managing Editor

Ronghua Guo, PHD

Ronghua obtained her PhD degree in Geology from Nanjing University in 2021. During her PhD, she focused on the sedimentary provenance analysis with different detrital heavy minerals from modern river sands in the South Tibetan Plateau. She joined Springer Nature as an Editorial Submission Advisor in October 2021 and now serves as a Managing Editor for 5 titles in the npj Series. She is now based in the Springer Nature Nanjing office.

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