

## Primary Goal of Supervising PhD students and Postdocs

Train **you** to become an independent, knowledgeable researcher!

Your research output is not the primary goal! (You have a long career in front of you)

## Why publish research?

- 1. From idea to rigorous science
- 2. Share new knowledge
- Develop the ability to present, discuss, and defend your research outcome



# COMMUNICATIONS

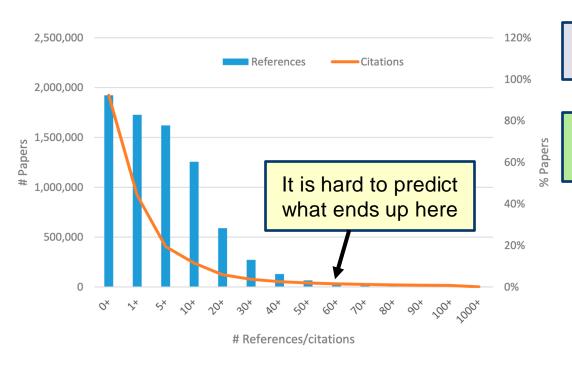
A PUBLICATION OF THE IEEE COMMUNICATIONS SOCIETY

#### ComSoc

**NOVEMBER 2024 VOLUME 72** NUMBER 11 **IECMBT** (ISSN 0090-6778) A Transformation of Repairing Reed-Solomon Codes From Rack-Aware Storage Model to Homogeneous Storage Y. Yang, H. Cai, and X. Tang Sequential Decoding of Multiple Sequences for Synchronization Errors ... A. Banerjee, A. Lenz, and A. Wachter-Zeh A Class of Rateless Reed-Solomon Codes With Near-Linear Computational Complexities Superimposed Versus Regular Pilots for Hardware Impaired Rician-Faded Cell-Free Massive MIMO Systems ..... H. Haritha, D. N. Amudala, R. Budhiraja, and A. K. Chaturvedi FDA-MIMO-Based Integrated Sensing and Communication System With Frequency Offsets Permutation Index .. J. Jian, O. Huang, B. Huang, and W.-O. Wang Indoor RIS-Assisted Wireless System With Location-Based Reflective Patterns J. Yuan, O. Franek, H. Fang, and P. Popovski Cooperative Hybrid Beamforming for the Mitigation of Realistic Asynchronous Interference in Cell-Free mmWave ..... M. Jafri, S. Srivastava, P. Kumar, A. K. Jagannatham, and L. Hanzo Rate-Splitting Multiple Access in Cell-Free Massive MIMO-URLLC Systems: Achievable Rate Analysis and Y. Zhang, H. Zhao, Y. Mao, W. Xia, W. Lu, and H. Zhu Neural Network-Aided Near-Field Channel Estimation for Hybrid Beamforming Systems ...... S. Jang and C. Lee Unified ISAC Pareto Boundary Based on Mutual Information and Minimum Mean-Square Error Estimation S. Wang, L. Chen, J. Zhou, Y. Chen, K. Han, and C. You Secure Beamforming for IRS-Assisted NOMA SWIPT Networks R. Sun, W. Wang, L. Xu, N. Zhao, N. Al-Dhahir, and X. Wang

(Contents Continued on Page 6647)

#### **Don't Stare at Citation Statistics!**



There are many years of delay!

Open access and code sharing: Encourage others to read and improve

Dalibor Fiala, Gabriel Tutoky, "Computer Science Papers in Web of Science: A Bibliometric Analysis," 2017

## Focus on Methodologies not Applications

#### **Methodologies**

Communication theory
Signal processing

Machine learning

Queuing theory

Optimization methods

**Prototyping** 

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Slowly evolving

#### **Applications**

MIMO communication

Near-field communications

Reconfigurable intelligent surfaces

Radar sensing

Satellites

Rapidly evolving

# "Most people **overestimate** what they can achieve in **a year** and **underestimate** what they can achieve in **ten years**"

- Set long-term goals and short-term actions say "no" to other things
- Find what you are good at and like to do don't compare with others
- Challenge yourself develop non-technical skills

### Some of my own actions:



