

# Nhu-Ngoc Dao

ASSISTANT PROFESSOR

Department of Computer Science and Engineering, Sejong University, Seoul 05006, South Korea

☎ (+82) 10-2681-8228 | ✉ nndao@sejong.ac.kr | 🌐 <https://pshhlab.github.io/nndao>

## Biography

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Nhu-Ngoc Dao is an Assistant Professor at the Department of Computer Science and Engineering, Sejong University, Seoul, Republic of Korea. He received his M.S. and Ph.D. degrees in computer science at the School of Computer Science and Engineering, Chung-Ang University, Seoul, Republic of Korea, in 2016 and 2019, respectively. He received the B.S. degree in electronics and telecommunications from the Posts and Telecommunications Institute of Technology, Hanoi, Viet Nam, in 2009. Prior to joining the Sejong University, he was a visiting researcher at the University of Newcastle, NSW, Australia, in 2019 and a postdoc researcher at the Institute of Computer Science, University of Bern, Switzerland, from 2019 to 2020. He currently serves as an Editor of the *Scientific Reports*. His research interests include network softwarization, mobile cloudization, intelligent systems, and the Intelligence of Things. Dr. Dao is a Senior Member of IEEE and a Professional Member of ACM.

## Professional Timeline

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03.2020–now	<b>Assistant Professor</b> , Department of Computer Science and Engineering, Sejong University	<i>Seoul, South Korea</i>
03.2020–now	<b>Director</b> , Privacy-Sensitive Heterogeneous Hypercomputing (PSHH) Lab	<i>Seoul, South Korea</i>
09.2019–02.2020	<b>Postdoc Researcher</b> , Institute of Computer Science, University of Bern	<i>Bern, Switzerland</i>
07.2019–08.2019	<b>Visiting researcher</b> , CDSC Center, University of Newcastle	<i>NSW, Australia</i>
03.2014–08.2019	<b>M.S. &amp; Ph.D.</b> , School of Computer Science and Engineering, Chung-Ang University	<i>Seoul, South Korea</i>
01.2009–02.2014	<b>Senior Engineer</b> , Global Telecommunication Corporation	<i>Hanoi, Viet Nam</i>
09.2004–12.2008	<b>B.S.</b> , Posts and Telecommunications Institute of Technology	<i>Hanoi, Viet Nam</i>

## Membership

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- Senior Member, Institute of Electrical and Electronics Engineers (IEEE);
- Professional Member, Association for Computing Machinery (ACM);
- Member, Korean Institute of Communications and Information Sciences (KICS);
- Member, Korean Institute of Information Scientists and Engineers (KIISE);
- Member, European Alliance for Innovation (EAI);

## Editorial Position

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- Editor of Scientific Reports, Springer Nature;
- Lead Guest Editor of Wireless Communications and Mobile Computing;
- Lead Guest Editor of Mobile Information Systems;
- Lead Guest Editor of Electronics;

## Grant

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01.2023–06.2024	<b>[APNIC Asia ISIF]</b> , Assisting natural beekeeping in rural and remote areas using LoRa-based IoT and drones	<i>Principal Investigator</i>
07.2022–12.2029	<b>[Korean IITP]</b> , Development of end-to-end 8 ultra-communication and networking technologies	<i>Co-Principal Investigator</i>
03.2021–02.2024	<b>[Korean NRF]</b> , Intelligent adaptive bitrate video streaming empowered by cross-tier user-centric edge caching systems	<i>Principal Investigator</i>
03.2020–02.2021	<b>[Sejong IACF]</b> , Hit ratio and content quality tradeoff for adaptive bitrate streaming in edge caching systems	<i>Principal Investigator</i>

## (Book) Chapter

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- [1] Nguyen NT, Dao NN, Pham QD, and Le HA [Eds], "Intelligence of things: Technologies and applications - Proceedings of the first international conference on intelligence of things (ICIT 2022)", Springer, Cham, Switzerland, 2022. [Springer].
- [2] Dao NN, Dinh NT, Pham QV, Phan TV, Cho S, and Braun T, "Vulnerabilities in fog/edge computing from architectural perspectives", Chapter 8, in *Fog/edge computing for security, privacy, and applications*, Wu J and Chang W [Eds], Springer, Cham, Switzerland, 2021. [Springer].

- [3] Dao NN, Tran QD, Dinh NT, Cho S, and Braun T, "Edge computing architectures", Chapter 2, in *Edge computing: Models, technologies and applications*, Taheri J and Deng S [Eds], The Institution of Engineering and Technology (IET), London, UK, 2020. [IET].

## Journal Publication

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For recent updates, please visit <https://pshhlab.github.io/index.html#journal>

- [1] Truong TP, Tuong VD, Dao NN, and Cho S, "FlyReflect: Joint flying IRS trajectory and phase shift design using deep reinforcement learning", *IEEE Internet of Things Journal*. In press. [IEEE]
- [2] Masood A, Ha T, Lakew DS, Dao NN, and Cho S, "Intelligent TCP congestion control scheme in Internet of deep space things communication", *IEEE Transactions on Network Science and Engineering*. In press. [IEEE]
- [3] Le AT, Do DT, Dao NN, Nguyen ND, and Silva A, "New look at secure performance of massive MIMO with low-resolution DACs", *ICT Express*. In press. [Elsevier]
- [4] Na W, Kim N, Dao NN, and Cho S, "Machine learning-based communication failure identification scheme for directional industrial IoT networks", *IEEE Systems Journal*. In press. [IEEE]
- [5] Lakew DS, Tran AT, Dao NN, and Cho S, "Intelligent offloading and resource allocation in heterogeneous aerial access IoT networks", *IEEE Internet of Things Journal*. In press. [IEEE]
- [6] Nguyen TV, Nguyen NP, Kim C, and Dao NN, "Intelligent aerial video streaming: Achievements and challenges", *Journal of Network and Computer Applications*, vol. 211, p. 103564, 2023. [Elsevier]
- [7] Nguyen TV, Tran AT, Dao NN, Moon H, and Cho S, "Information fusion on delivery: A survey on the roles of mobile edge caching systems", *Information Fusion*, vol. 89, pp. 486-509, 2023. [Elsevier]
- [8] Dao NN, "Internet of wearable things: Advancements and benefits from 6G technologies", *Future Generation Computer Systems*, vol. 138, pp. 172-184, 2023. [Elsevier]
- [9] Dao NN, Tran AT, Tu NH, Thanh TT, Bao VNQ, and Cho S, "A contemporary survey on live video streaming from a computation-driven perspective", *ACM Computing Surveys*, vol. 54, no. 10s, p. 202, 2022. [ACM]
- [10] Dao NN, Do TH, Cho S, and Dustdar S, "Information revealed by vision: A review on the next-generation OCC standard for AIOV", *IT Professional*, vol. 24, no. 4, pp. 58-65, 2022. [IEEE]
- [11] Lakew DS, Tuong VD, Dao NN, and Cho S, "Adaptive partial offloading and resource harmonization in wireless edge computing-assisted IoE networks", *IEEE Transactions on Network Science and Engineering*, vol. 9, no. 5, pp. 3028-3044, 2022. [IEEE]
- [12] Vu DN, Dao NN, Na W, and Cho S, "Dynamic resource orchestration for service capability maximization in fog-enabled connected vehicle networks", *IEEE Transactions on Cloud Computing*, vol. 10, no. 3, pp. 1726-1737, 2022. [IEEE]
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- [18] Na W, Dao NN, and Cho S, "Reinforcement-learning-based spatial resource identification for IoT D2D communications", *IEEE Systems Journal*, vol. 16, no. 1, pp. 1068-1079, 2022. [IEEE]
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- [54] Na W, **Dao NN**, and Cho S, "Reliable multicasting service for densely deployed military sensor networks", *International Journal of Distributed Sensor Networks*, vol. 11, no. 8, p. 341912, 2015. [Hindawi]

## Conference Publication

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- [1] Tuong VD, **Dao NN**, Noh W, and Cho S, "Dynamic time division duplexing for green Internet of things", *IEEE International Conference on Information Networking (ICOIN)*, pp. 356–368, Jeju island, Korea, January 12–15, 2022. [IEEE]
- [2] Le BL, Lam GH, Nguyen XV, Nguyen TM, Duong QL, Tran QD, Do TH, **Dao NN**, "A deep learning based traffic sign detection for intelligent transportation systems", *International Conference on Computational Data and Social Networks (CSoNet)*, pp. 129–137, Montreal, Canada, November 15–17, 2021. [Springer]
- [3] Lakew DS, Tran AT, **Dao NN**, and Cho S, "Intelligent offloading and resource allocation in HAP-assisted MEC networks", *IEEE International Conference on Information and Communication Technology Convergence (ICTC)*, pp. 1582–1587, Jeju island, Korea, October 20–22, 2021. [IEEE] (**Best Paper Award**)
- [4] Nguyen XV, Lam GH, Le QN, Duong QL, Nguyen TM, Le BL, Tran QD, Do TH, and **Dao NN**, "Intelligent augmented video streaming services using lightweight QR code scanner", *IEEE International Conference on Communication, Networks and Satellite (COMNETSAT)*, pp. 103–107, Purwokerto, Indonesia, July 17–18, 2021. [IEEE]
- [5] Do TH, Tran DK, Hoang DQ, Vuong D, Hoang TM, **Dao NN**, Lee C, Cho S, "A novel algorithm for estimating fast-moving vehicle speed in intelligent transport systems", *IEEE International Conference on Information Networking (ICOIN)*, pp. 499–503, Jeju island, Korea, January 13–16, 2021. [IEEE]

- [6] Pham QD, Do TH, **Dao NN**, Na W, Lee C, Cho S, "A feasible study of cube sensing organization map for cognitive spectrum allocation", *IEEE International Conference on Information Networking (ICOIN)*, pp. 858–863, Jeju island, Korea, January 13–16, 2021. [IEEE]
- [7] Tran AT, Lakew DS, Nguyen TV, Tuong VD, Truong TP, **Dao NN**, Cho S, "Hit ratio and latency optimization for caching systems: A survey", *IEEE International Conference on Information Networking (ICOIN)*, pp. 577–581, Jeju island, Korea, January 13–16, 2021. [IEEE]
- [8] Do TH, Tran DK, Hoang DQ, Pham MQ, Pham QD, **Dao NN**, Lee C, Cho S, "Night-time vehicle distance estimation using camera geometry and deep learning", *IEEE International Conference on Information Networking (ICOIN)*, pp. 853–857, Jeju island, Korea, January 13–16, 2021. [IEEE]
- [9] Tran AT, Nguyen TV, Tuong VD, **Dao NN**, and Cho S, "On stalling minimization of adaptive bitrate video services in edge caching systems", *IEEE International Conference on Information Networking (ICOIN)*, pp. 115–116, Barcelona, Spain, January 7–10, 2020. [IEEE]
- [10] Dinh NT, **Dao NN**, and Kim Y, "Sensing content correlation-aware in-network caching scheme at the edge for Internet of Things", *ACM Conference on Information-Centric Networking (ICN)*, pp. 161–162, Macao, China, September 24–26, 2019. [ACM]
- [11] **Dao NN**, Na W, Lee Y, Vu DN, and Cho S, "Prefetched asymmetric authentication for infrastructureless D2D communications: feasibility study and analysis", *IEEE International Conference on Information and Communication Technology Convergence (ICTC)*, pp. 1053–1054, Jeju island, Korea, October 17–19, 2018. [IEEE]
- [12] Jeong S, **Dao NN**, Lee Y, Lee C, and Cho S, "Blockchain based billing system for electric vehicle and charging station", *IEEE International Conference on Ubiquitous and Future Networks (ICUFN)*, pp. 308–310, Parague, Czech, July 3–6, 2018. [IEEE]
- [13] **Dao NN**, Vu DN, Lee Y, Park M, and Cho S, "MAEC-X: DDoS prevention leveraging multi-access edge computing", *IEEE International Conference on Information Networking (ICOIN)*, pp. 245–248, Chiang Mai, Thailand, January 10–12, 2018. [IEEE]
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- [18] Jang S, Park L, Na W, **Dao NN**, Eom JH, Kim YH, Lee JW, and Cho S, "Optimization of ISM band interference coordination between WLAN and IEEE 802.15.4 using NAV on PAN coordinator", *IEEE International Conference on Ubiquitous and Future Networks (ICUFN)*, pp. 688–690, Vienna, Austria, July 5–8, 2016. [IEEE]
- [19] Eom J, Park L, Na W, **Dao NN**, Jang SM, Kim YH, Lee JW, and Cho S, "Using social Internet of things (SIoT) demand side management on the plant", *IEEE International Conference on Ubiquitous and Future Networks (ICUFN)*, pp. 685–687, Vienna, Austria, July 5–8, 2016. [IEEE]
- [20] **Dao NN**, Park J, Park M, and Cho S, "A feasible method to combat against DDoS attack in SDN network", *IEEE International Conference on Information Networking (ICOIN)*, pp. 309–311, Siem Reap, Cambodia, January 12–14, 2015. [IEEE]

## Award

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- *CAU Alumni Award*, awarded by Chung-Ang Graduate Students Union, 2019;
- *Certificate of Merits for outstanding academic and research achievements in Korea*, awarded by the Ambassador of Vietnam in Korea, 2019;
- *Vietnamese Young Scientists in Korea Award in ICT*, jointly awarded by the Science and Technology Office, Embassy of the Socialist Republic of Vietnam in Korea and the Vietnamese Students Association in Korea, 2019;
- *Golden Globe Award in ICT*, jointly awarded by the Central Committee of Ho Chi Minh Communist Youth Union and the Ministry of Science and Technology, 2018;

## Service

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- *Editor:* [Scientific Reports](#);
- *SI guest editor:*
  - Wireless Communications and Mobile Computing: [\[1\]](#), [\[2\]](#)
  - Mobile Information Systems: [\[1\]](#)
  - Electronics: [\[1\]](#)
- *Keynote speaker:* [Computing4Human2021](#);
- *Organizing committee member:* [ICIT2023](#), [ICIT2022](#), [ICTC2022](#), [ICOIN2021](#);
- *TPC member:* [CyberneticsCom2022](#), [COMNETSAT2021](#), [COMNETSAT2020](#), [ISCIT2019](#), [ICECIE2019](#), [ICOIN2018](#);
- *Reviewer:* IEEE JSAC, TVT, TCC, TITS, IOTJ, CIM, WCM, ACCESS, COMSTD, Elsevier JNCA, Wiley NEM, Springer WIRE, etc.

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