Kittipat Apicharttrisorn

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EDUCATION

University of California, Riverside, Riverside, California, USA

- Ph.D. in Computer Science — Oct 2015 – Jun 2020
  - Thesis: N/A
  - Adviser: Prof. Srikanth V. Krishnamurthy and Prof. Jiasi Chen
  - Focus: Mobile Computing, Deep Learning, Distributed Systems
  - Cumulative GPA: 4.00 / 4.00

Chulalongkorn University, Bangkok Thailand

- M.S. in Computer Science — May 2007 – Nov 2010
  - Thesis: Distributed Time Synchronization in Wireless Sensor Networks
  - Adviser: Prof. Chalermek Intanagonwiwat
  - Focus: Sensor Network, Time Synchronization
  - Cumulative GPA: 3.75 / 4.00

RESEARCH EXPERIENCE

Network, Systems, and Security Laboratories, UC, Riverside, USA

- Graduate Student Researcher, Computer Science Department — Oct 2015 – Current
  - Supervisors: Prof. Srikanth V. Krishnamurthy and Prof. Jiasi Chen
  - Focus: Mobile Computing, Deep Learning, Wireless Communications

AT&T Research Laboratories, New Jersey, USA

- Research Intern — Jun 2019 – Sep 2019
  - Supervisors: Dr. Bharath Balasubramanian and Dr. Rajarajan Sivaraj
  - Focus: Augmented Reality, Cellular Networks

PROFESSIONAL EXPERIENCE

Aeronautical Radio of Thailand, Bangkok, Thailand

- Systems Engineer, Data Engineering Department — Jan 2007 – Sep 2015
  - Projects: Flight Data Management Systems, Aeronautical Telecommunications Networks
  - Supervisor: Pongnarin Anantasirijinda
  - Focus: System Engineering, Air Traffic Operations, Information Technology

PUBLICATIONS

JOURNALS

[1] S. Choochaisri, K. Apicharttrisorn, and C. Intangonwiwat, "Desynchronization with an artificial force field for wireless networks," *SIGCOMM Computer Communication Review*, Apr 2012

CONFERENCES

[2] K. Apicharttrisorn, Bharath Balasubramanian, Jiasi Chen, Rajarajan Sivaraj, Yu Zhou, Rittwik Jana, Srikanth Krishnamurthy, Tuyen Tran, and Yi-Zhen Tsai, "Don't Overlook the RAN: The Significant Impact of the Cellular Networkon Multi-User AR," *under submission*,

[2] K. Apicharttrisorn, X. Ran, J. Chen, S.V. Krishnamurthy, and A.K. Roy-Chowdhury, "Frugal Following: Power Thrifty Object Detection and Tracking for Mobile Augmented Reality," in *ACM SenSys (Best Paper Finalist)*, Nov 2019.

[3] K. Apicharttrisorn, A.O.F Atya, J. Chen, K. Sundaresan, and S.V. Krishnamurthy, "Enhancing WiFi Throughput with PLC Extenders: A Measurement Study," in *Proceedings of the Passive and Active Measurement conference*, Feb 2017.

[4] D. Apicharttrisorn, K. Apicharttrisorn, and T. Kasetkasem, "A Moving Object Tracking Algorithm Using Support Vector Machines in Binary Sensor Networks," in *Proceedings of the International Symposium on Communications and Information Technologies*, Sep 2013.

[5] K. Apicharttrisorn, S. Choochaisri, and C. Intangonwiwat, "Energy-Efficient Gradient Time Synchronization for Wireless Sensor Networks," in *Proceedings of the International Conference on Computational Intelligence, Communication Systems and Networks*, Jul 2010.

ARCHIVES

[6] S. Choochaisri, K. Apicharttrisorn, and C. Intangonwiwat, "Stable Desynchronization for Wireless Sensor Networks: (I) Concepts and Algorithms (II) Performance Evaluation (III) Stability Analysis," in *Computer Science: Networking and Internet Architecture (cs.NI)*, Apr 2017.

AWARDS & SCHOLARSHIPS

- Intel® Edge AI Scholarship (Student Leadership) 2019 – 2020
  Scholarship for a foundational course in Intel Edge AI at Udacity
- PyTorch Scholarship Challenge, Udacity and Facebook AI 2018 – 2019
  Scholarship for a PyTorch course at Udacity
- Dean's Distinguished Fellowship, Faculty of Engineering, UC, Riverside 2015 – 2017
  Full-tuition scholarship with stipend for selected, new PhD student

CERTIFICATES

- "Machine Learning Engineer Nanodegree", March 2019
- "Data Science: R Basics on HarvardX", December 2018
- "Neural Networks and Deep Learning by deeplearning.ai on Coursera", October 2018
- "ASP.NET Web Development with Visual Studio 2012", 9Expert Corporation, Bangkok, Thailand, February 2014
- "Embedded Software Engineering", Software Industry Promotion Agency (SIPA) & Chulalongkorn University, October 2007
- "Network Design and Implementation", Chulalongkorn University, April 2005

SELECTED COURSES

Graduate-Level: Design & Analysis of Algorithms, Queuing Theory, Operating Systems, Data Mining Techniques, Wireless Communications & Mobile Computing, Compiler Construction, Computer Networks, Artificial Intelligence, Distributed Systems
Undergraduate-Level: Wireless Communications, Satellite Communications, Communication Systems, Data Communications & Networks, Signals & Systems, Applied Probability, Linear Algebra
MOOC: *Udacity* Edge AI, Machine Learning Engineering *Coursera* Deep Learning

LANGUAGES

- Thai: Native, English: Fluent

SKILLS

Software Platforms: Android, TensorFlow, PyTorch, Scikit-learn, Keras, Linux, OpenCV, ns-3
Programming Languages: Java, Python, C, C++, Matlab, R

REFERENCES

- **Professor Srikanth V. Krishnamurthy**
  Professor of Computer Science, University of California, Riverside
  Department of Computer Science and Engineering,
  University of California, Riverside, Riverside, CA 92521
  krish@cs.ucr.edu • https://www.cs.ucr.edu/~krish/
- **Professor Jiasi Chen**
  Assistant Professor of Computer Science, University of California, Riverside
  Department of Computer Science and Engineering,
  University of California, Riverside, Riverside, CA 92521
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- **Dr. Bharath Balasubramanian**
  Principal Inventive Scientist at AT&T Labs Research
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[*CV compiled on 2019-12-27 by Kittipat Apicharttrisorn*]