

Tech Journeys Lecture

Campus to Silicon Valley

NVIDIA や **Apple** の先端技術の紹介とともに、

日本で学んでシリコンバレーで活躍するまでのキャリアアップについてもお話し頂きます。

対象

立命館大学の学生・大学院生
(学部・研究科問わず)

センター関連企業の方

対面参加の方は申込不要
直接会場までお願いします

2025 **10.14** 火 15:00 ~ 16:30

開催場所 立命館大学大阪いばらきキャンパス B棟3階 B374「コロキウム」



講演 1

Evolution of Big Data
Technologies:
A Silicon Valley Story

ビッグデータ技術の進化：
シリコンバレーの物語



【講演者】 Dr. Andy Feng
NVIDIA Vice President

大阪大学ソフトウェア工学講座にて属性文法で学位取得後、米国XeroxやYahooを経てNVIDIA SparkプロジェクトやAI関係の大規模処理システムに従事。

<https://www.linkedin.com/in/afeng/>

<https://blogs.nvidia.com/blog/author/andrewfeng/>

講演 2

A Wireless
Technologist's Journey
in Apple Headquarter

Apple本社における
ワイヤレス技術者の旅



【講演者】 Dr. Camille Chen
Apple Inc.
Wireless System Architect

大阪大学ディペンダビリティ工学講座にて耐故障システムで学位取得。
米国Trident、Mitsubishi、Intelなどを 経て現職。現在WiFi, Bluetooth,
UWB, Threadなど共存する無線システムの開発(multi-radio coexistence)
に従事。 <https://www.linkedin.com/in/camillechen/>

【オンラインで参加希望の方】



URLもしくはQRコードより
お申込みください

<https://x.gd/6mBJN>

申込期限

10/13
(月)

【講演者1】 Dr.Andy Feng

NVIDIA Vice President

Abstract: Big data technologies have been instrumental in the widespread growth of the Internet, social media, smartphone, and AI.

- 2000s: Apache Hadoop, initially developed at Yahoo for web search and advertising, laid the groundwork for data processing during the Internet era.
- 2010s: Apache Spark, originally created at the University of California, Berkeley, becomes the preferred data processing framework for its significantly enhanced performance and usability.
- 2020s: SQL columnar engines dramatically accelerate big data processing, utilizing the latest CPUs and GPUs to meet the demands of the AI era.

As a technologist, I have had the privilege of contributing to this technological evolution, experiencing significant professional growth along the way. This lecture will provide an overview of these big data technologies and their profound impact on Silicon Valley and beyond. I will share insights on problem discovery, technology innovation, and public communication, hoping to inspire you to explore the world and achieve your own success.

Bio:

Since 2017, Andrew Feng has been the vice president of software engineering at NVIDIA, where he has overseen the product strategy, roadmap, and implementation of accelerated big data analytics, federated AI and healthcare AI solutions. Before his tenure at NVIDIA, Andrew was the vice president of architecture at Yahoo, spearheading big data and machine learning initiatives. He holds a Ph.D. and M.S. in computer science from Osaka University, Japan.

<https://www.linkedin.com/in/afeng/>

<https://blogs.nvidia.com/blog/author/andrewfeng/>



【講演者2】 Dr.Camille Chen

Apple Inc. Wireless System Architect

Abstract: Apple commenced the production of the iPhone in 2007.6, a pivotal moment that has significantly transformed the global landscape. I joined Apple in 2007.4 and have been privileged to witness the remarkable evolution of wireless technologies over the past 18+ years. Notably, I have actively participated in the development of multi-radio coexistence among WiFi, Bluetooth (BT), Ultra-Wide-Band (UWB), and Thread.

Throughout this 18-year journey, I have made substantial contributions to the development of products such as Macs, iPhones, iPads, ATVs, HomePods, watches, AirPods (pro), and other wireless-enabled devices. Additionally, I have authored 29 patents.

In the realm of technical discussions, I will utilize WiFi/BT coexistence as an illustrative example. WiFi operates in both 2.4GHz and 5GHz frequency bands, while BT operates exclusively in the 2.4GHz band. WiFi primarily facilitates data communication, whereas BT is primarily utilized for cable replacement, such as headsets (HS) for audio (voice/music) and Human Input Devices (HIDs) for mouse, keyboard, and trackpad.

When it comes to data traffic, users prioritize high speed, while for HS or HIDs, low latency is paramount. However, due to WiFi and BT operating within the same 2.4GHz frequency band and the limited space available to separate two radio antennas, achieving a balance between WiFi performance and BT low latency presents a formidable challenge.

During the presentation, I will commence with the problem statement, followed by options to mitigate the identified issues. If time permits, I will also provide a demonstration of popular wireless use cases.

Bio:

'94大阪大学基礎工学研究科博士修了、94-96Trident Microsystems, 96-99Mitsubishi Elec., 99-07Intel Inc., 07~Apple. 耐故障システム、3Dグラフィクスなどの開発を経て、現在MacやiPhoneなどの機器上でWiFi, Bluetooth, UWB, Threadなど共存する無線システム(multi-radio coexistence system)の開発に従事。

<https://www.linkedin.com/in/camillechen/>

