Live Webinar

IEEE ComSoc
IEEE Communications Society
UTTAR PRADESH SECTION

QUALCOMM LECTURE SERIES: TALK 3

Industry Perspectives on Compiler Design

16th March 2022	4 P.M.	WEBEX LINK FOR THE EVENT https://iitroorkee.webex.com/iitroorkee/j.php?MTID=m682590b1fda51db227d8a8d551b37fb8

With this talk, we will start diving into specific academic topics, which is built on previous talk's introduction and motivation.This is an introductory level talk with no pre-requisites. Students who want to figure out use cases of Compiler Design in Industry should attend this talk. It can help you decide if you are interested in Compiler Design.

Abstract: Mobile phones have changed significantly in the last 25 years, changing from a voice-calls only device to an always-connected powerful computing machine. This fantastic technical achievement happened mainly through hardware design and software changes adapting to the hardware changes. This presentation talks about the challenges to sustaining this kind of rapid evolution, the need for hardware accelerators and the increased significance of compilers in this context. This talk provides information about Domain Specific Languages like Halide/TVM and how they are trying to address some of these challenges with aid from Compiler Design. Apart from this, the presentation also includes details about the importance of software security and how static analysis tools can help address security issues.

Mr. Sushim Shrivastava

Ravishankar Kolachana

Sushim Shrivastava, has been working at Qualcomm for almost 17 years and has worked in different roles contributing to Wireless Software Development and more recently working on Compilers, Cloud, Machine Learning and Software Security
https://www.linkedin.com/in/sushim/

Ravishankar Kolachana has been working on various development tools like compilers/linkers/loaders/simulators/debuggers/IDEs over the last 17 years at Qualcomm.
https://www.linkedin.com/in/ravishankar-kolachana-a8197ba/