

सामग्री को वैयक्तिकृत करने, विज्ञापनों को अनुकूल बनाने और उनका मूल्यांकन करने और सुरक्षित अनुभव प्रदान करने के लिए, हम कुकी का उपयोग करते हैं. साइट पर क्लिक करके या उसे नेविगेट करके, आप Facebook पर और उसके बाहर हमारे द्वारा कुकी का उपयोग करके जानकारी एकत्र किए जाने से सहमत होते हैं. उपलब्ध नियंत्रणों सहित, और जानें: कुकी नीति.

साइन अप करें

ईमेल या फ़ोन

पासवर्ड

लॉग इन करें

खाता भूल गए?

**Computer Science & Engineering Department, IIT Kharagpur**

27 अगस्त 2019 ·

Talk@CSE

Title: Design Automation for Quantum Computing

Speaker: Prof. Robert Wille

Date, time and venue: Aug 28, 4:00 pm, CSE-107

Abstract: Quantum computation is currently moving from an academic idea to a practical reality. The recent past has seen tremendous progress in the physical implementation of corresponding quantum computers – also involving big players such as IBM, Google, Intel, Rigetti, Microsoft, and Alibaba. These devices promise substantial speedups over conventional computers for applications like quantum chemistry, optimization, machine learning, cryptography, quantum simulation, and systems of linear equations. The Design Automation Community needs to be ready for this revolutionizing new technology. While research on automatic design methods for quantum computers is currently underway, there is still far too little coordination between the CAD community and the quantum computation community. Consequently, many approaches proposed in the past have either addressed the wrong problems or failed to reach the end users. In this talk, I provide a glimpse into both sides. To this end, we review and discuss selected accomplishments from the EDA domain as well as open challenges within the quantum domain. These examples showcase the recent state-of-the-art but also outline the remaining work left to be done in both communities.

Speaker's bio: Robert Wille is a Full Professor at the Johannes Kepler University Linz, Austria. His research interests include the design of circuits and systems for both conventional and emerging technologies with a particular focus on design automation for quantum computing and microfluidics. On these topics, he has published over 200 journal and conference papers and got awarded, e.g., with a Google Research Award, a Young Under 40 Innovators Award, as well as a Young Researcher Award. Furthermore, he organized several tutorials, special sessions, and networking events on those topics and serves the community e.g. as associated editor for TCAD and as PC member e.g. for DATE, DAC, ICCAD, and ASP-DAC.

20

1 शेयर

साझा करें

संबंधित पेज

**Divyanka Tripathi Dahiya**

कलाकार

**Code Club, IIT Kharagpur**

कैम्पस बिल्डिंग

**Awaaz, IIT Kharagpur**

मीडिया/समाचार कंपनी

**IIT Kharagpur**

कॉलेज और यूनिवर्सिटी

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**Department of Computer Scienc...**

कैम्पस बिल्डिंग

**Taalpatar shepai**

संगीतकार/बैंड

**International Relations Cell, IIT K...**

गैर-लाभकारी संगठन

**UG Students' Council IIT Kharag...**

मण्डली

**Tripoto**

यात्रा कंपनी

**Kharagpur Data Analytics Group**

स्थानीय व्यवसाय

**up.AI Summit, IIT Kharagpur**

विज्ञान, तकनीक और इंजीनियरिंग

पेज के अनुसार हाल ही की पोस्ट

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22 अप्रैल को 10:38 अपराह्न बजे

Congratulations to the team.

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लॉग इन करें

या

नया अकाउंट बनाएँ



**Computer Science & Engineering
Department, IIT Kharagpur**

5 मार्च को 7:36 अपराह्न बजे

Feb Talk round up. In February, there were two talks. One by Dr. Arn... और देखें

45

1 शेयर

साझा करें

हिन्दी · Deutsch · English (US) · Türkçe · Español



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