

# BlockSys-2021-Program

Virtual Workshop

**Date: 17-11-2021**

---

All times are in GMT (Coimbra, Portugal).

**Attend via YouTube:** Attendees should join here: <https://sensys-buildsys-21.dei.uc.pt/yt/room5>

**Questions via Slack:** Attendees should post their questions on **ACM SenSys 2021 / BuildSys 2021 Slack**. Please note the Channel for BlockSys: **nov17\_sensys\_workshop\_acm\_blocksys**. If you **don't have access to ACM SenSys 2021 / BuildSys 2021 Slack**, please email [g.ramachandran@qut.edu.au](mailto:g.ramachandran@qut.edu.au), [ali.dorri@qut.edu.au](mailto:ali.dorri@qut.edu.au), and [shantanu.pal@qut.edu.au](mailto:shantanu.pal@qut.edu.au).

## Morning Session

9 AM – 10: 15 AM: Keynote

Session Chair: Salil Kanhere (University of New Wales, Australia)

Speaker: Michele Nati, IOTA.

- Title: **IOTA: A ledger for IoT, data and assets. Technology and use cases**

10: 15 AM – 11: 15 AM: Invited Speaker

Session Chair: Raja Jurdak (Queensland University of Technology, Australia)

Speaker: David Davies, AgUnity.

- Title: **Connecting the 'Last Mile' Through Blockchain Technology and Digital Utility Tokens**

11:15 AM – 12 PM: Technical Session

Session Chair: Shantanu Pal (Queensland University of Technology, Australia)

- *Detecting Compromised Edge Smart Cameras using Lightweight Environmental Fingerprint Consensus*
  - *Deeraj Nagothu (Binghamton University), Ronghua Xu (Binghamton University), Yu Chen (Binghamton University), Erik Blasch (The U.S. Air Force Research Laboratory Rome, New York, USA), and Alexander Aved (The U.S. Air Force Research Laboratory Rome, New York, USA)*
- *A Blockchain and Machine Learning based Framework for Efficient Health Insurance Management*
  - *Adit Goyal (Department of Computer Science & Engineering and IT, IIIT, Noida, India), Anubhav Elhence (Department of Electrical and Electronics Engineering, BITS Pilani, Pilani Campus), Vinay Chamola (Department of Electrical and Electronics Engineering, BITS Pilani, Pilani Campus, India), Biplab Sikdar (National University of Singapore)*

12 PM – 1 PM: Lunch

### **Afternoon Session**

1 PM – 2 PM: Invited Speaker

Session Chair: Volkan Dedeoglu (CSIRO, Australia)

Speaker: Aljosja Beije, BlockLab.

- Title: **Practical implementation of Blockchain and IoT**

2 PM – 3:15 PM: Technical Session

Session Chair: Ali Dorri (Queensland University of Technology, Australia)

- *The convergence of Blockchain and Machine Learning for Decentralized Trust Management in IoT Ecosystems*
  - *Tharindu Ranathunga (Munster Technological University), Alan McGibney (Munster Technological University), Susan Rea (Munster Technological University)*
- *Blockchain-based Decentralized Service Provisioning in Local 6G Mobile Networks*
  - *Taras Maksymyuk (Lviv Polytechnic National University, Lviv, Ukraine), Marcel Volosin (Technical University of Kosice, Slovakia), Juraj Gazda (Technical University of Kosice, Slovakia), and Madhusanka Liyanage (University College Dublin, Ireland / University of Oulu, Finland)*
- *Experimental Scalability Study of Consortium Blockchains with BFT Consensus for IoT Automotive Use Case*
  - *Luc Gerrits (University Côte-d'Azur), Cyril Naves Samuel (University Côte-d'Azur), Roland Kromes (University Côte-d'Azur), François Verdier (University Côte-d'Azur), Severine Glock (Renault Software Labs), Patricia Guitton-Ouhamou (Renault Software Labs).*

3:15 PM – 3:30 PM: Break

*3:30 PM – 4:25 PM: Invited Speaker*

*Session Chair: Gowri Sankar Ramachandran (Queensland University of Technology, Australia)*

*Speaker: Raghu Bala, NetObjex.*

- ***Title: Tokenization of Assets: Digital, Physical and Dynamic Assets***

*4:25 PM – 4:30 PM: Wrap Up*

***Registration is free for Online Participants. Please register here: <https://sensys.acm.org/2021/registration/>***