Fourth ACM International Workshop on Blockchain-enabled Networked Sensor Systems (BlockSys 2022)

November 6th, 2022

Program

9 AM - 9:05 AM: Welcome

9:05 AM - 9:55 AM: Keynote
  Speaker: Dr. Shucheng Yu, Stevens Institute of Technology, USA
  Title: Efficient and Robust Data Dissemination in Blockchain Systems - An
      Information-Centric Approach

10:00 AM - 11:00 AM: Technical Session 1 (Three papers, 20 minutes each)

  Paper #1: *A Survey of Blockchain-based Electronic Voting Mechanisms in Sensor Networks*
      Tieming Geng, University of South Carolina, USA
      Laurent Njilla, The United States Air Force Research Laboratory, USA
      Chin-Tser Huang, University of South Carolina, USA

  Paper #2: *Blockchain interoperability: performance and security trade-offs*
      Babu Pillai, Southern Cross University, Griffith University, Australia
      Zhe Hou, Griffith University, Australia
      Kamanashis Biswa, Australian Catholic University, Australia
      Vinh Bui, Southern Cross University, Australia
      Vallipuram Muthukkumarasamy, Griffith University, Australia

  Paper #3: *A Prototype Design for Gamified Blood Donation App using Blockchain Technology, IPFS and NFTs*
      Gaushik M R, Amrita University, India
      Jivtesh M R, Amrita University, India
      Adarsh P, Amrita University, India
      Sai Shibu N B, Amrita University, India
      Sethuraman N Rao, Amrita University, India

11:00 AM - 11:15 AM: Coffee Break

11:15 AM - 11:45 AM: Invited Talk
  Speaker: Dr. Anusha Avyukt, University of Southern California (USC), USA
  Title: Decentralised review system for digital and IoT data marketplace

11:45 AM - 12:35 PM : Technical Session 2 (Two papers + Two Posters)

Paper #4: *Design of a Secured Medical Data Access Management using Ethereum Smart Contracts, Truffle Suite and Web3*
G.D Heshan Niranga, Amrita University, India
Vidya S Nair, Amrita University, India
Sai Shibu N B, Amrita University, India

Paper #5: *Privacy-preserving Blockchain-based Authentication in Smart Energy Systems*
Anusha Vangala, International Institute of Information Technology, India
Ashok Kumar Das, International Institute of Information Technology, India

Poster #1: *Smart Contracts Vulnerability Classification Through Deep Learning*
Martina Rossini, University of Bologna, Italy
Mirko Zichichi, Universidad Politécnica de Madrid, Spain
Stefano Ferretti, University of Urbino Carlo Bo, Italy

Poster #2: *Electric Vehicle as a Virtual Mobile Power Plant for Smart Grid - A Blockchain and Cryptocurrency-based Proof of Concept System*
Jivtesh M R, Amrita University, India
Rohit Mathew Samuel, Amrita University, India
Gaushik M R, Amrita University, India
Siddhi Menon, Amrita University, India
N B. Sai Shibu, Amrita University, India
Sethuraman N Rao, Amrita University, India

12:35 PM - 12:40 PM : Close Remarks