



2021 3rd International Conference on Sustainable Technologies for Industry 4.0

2021 December 18 - 19

All the schedules of International Conference on Sustainable Technologies for Industry 4.0 (STI 2021) have been given below.

18 Dec Saturday

08: 30 AM - 09 : 30 AM

Conference Highlights and Greeting Exchanges

18 Dec Saturday

09: 30 AM - 10 : 15 AM

Inaugural Session

18 Dec Saturday

10: 15 AM - 11 : 00 AM

Keynote 01: Securing Cyber-Physical and IoT Systems in Smart Living Environments

Speaker | Sajal K. Das, IEEE Fellow, Missouri University of Science and Technology, USA
Session Chair | Prof. Dr. Hafiz Md. Hasan Babu

18 Dec Saturday

11: 00 AM - 11 : 15 AM

Health Break

18 Dec Saturday

11: 15 AM - 12 : 00 PM

Keynote 02: Clone detection and Benchmarking in Big Code

Speaker | Chanchal Roy, Professor, University of Saskatchewan, Canada
Session Chair | Prof. Dr. A. B. M. Alim Al Islam

18 Dec Saturday

Technical Session 1

12: 00 PM - 01 : 00 PM

Parallel Session 1: Computer Vision and Pattern Recognition

Session Chairs | Prof. Dr. Mohammad Shorif Uddin, Prof. Dr. Mohammad Abu Yousuf
Paper IDs | 5, 86, 123, 134

Parallel Session 2: Computational Linguistic and Natural Language Processing

Session Chairs | Prof. Dr. Md. Moshikul Hoque, Dr. Ahmedul Kabir
Paper IDs | 8, 95, 112, 120

Parallel Session 3: Advances in device and sensor technology

Session Chairs | Prof. Dr. Samia Subrina, Dr. Sajid Muhaimin Choudhury
Paper IDs | 24, 27, 99, 110

18 Dec Saturday

01: 00 PM - 02 : 00 PM

Prayer and Lunch Break

Event Schedule





2021 3rd International Conference on Sustainable Technologies for Industry 4.0

18 Dec Saturday

02: 00 PM - 02 : 45 PM

Keynote 03: Electrification in the Aerospace Industry

Speaker | **Amit K. GUPTA**, PhD CEng Fellow [IEEE IET IES], Head of Rolls-Royce Electrical, Singapore

Session Chair | Prof. Dr. Muhammed Fayyaz Khan

18 Dec Saturday

02: 45 PM - 03 : 30 PM

Keynote 04: Challenges and opportunities of Solar PV integrations to national grid

Speaker | **Tapan Saha**, IEEE Fellow, University of Queensland, Australia

Session Chair | Prof. Dr. Md. Fayzur Rahman

18 Dec Saturday

03: 30 PM - 04 : 30 PM

STI EXPO 2021: Required Technological Transition to Achieve Sustainable Development for Emerging Economy

Session Chair | Prof. Dr. Golam Samdani Fakir

18 Dec Saturday

Technical Session 2

03: 30 PM - 04 : 45 PM

Parallel Session 1: Artificial Intelligence and Machine Learning

Session Chairs | Prof. Dr. Syed Akter Hossain, Dr. Sejuti Rahman

Paper IDs | 20, 32, 52, 57, 153

Parallel Session 2: Deep Learning, Image Processing, Medical Imaging

Session Chairs | Prof. Dr. Hasabul Kabir, Prof. Dr. Farhad Rabbi

Paper IDs | 77, 94, 100, 139, 158

Parallel Session 3: Systems & Security

Session Chairs | Prof. Dr. M Shamim Kaiser, Dr. Muhammad Golam Kibria

Paper IDs | 61, 72, 121, 142, 160

18 Dec Saturday

04: 45 PM - 05 : 15 PM

Keynote 05: Silica composite microcapsules for functional finishing of textiles: encapsulation and release properties

Speaker | **Zhi Chen**, PhD, Wuhan Textile University, China

Session Chair | Prof. Dr. Nitai Chandra Sutradhar

18 Dec Saturday

05: 15 PM - 05 : 45 PM

Prayer and Health Break

18 Dec Saturday

05: 45 PM - 06 : 15 PM

Invited Talk 01: Functionalisation of fibre-reinforced plastic composites.

Speaker | **Moniruddoza Ashir**, PhD, Wuhan Textile University, China

Session Chair | Prof. Dr. Shah Alimuzzaman

Event Schedule





2021 3rd International Conference on Sustainable Technologies for Industry 4.0

Event Schedule

18 Dec Saturday

06: 15 PM - 07 : 00 PM

Advisory and Organizing Committee Meeting

End of Day 1

19 Dec Sunday

08: 30 AM - 09 : 00 AM

Conference Highlights and Greeting Exchanges

19 Dec Sunday

09: 00 AM - 09 : 45 AM

Keynote 06: Challenges in Real-time Edge AI

Speaker | Tarek Abdelzاهر, IEEE Fellow, University of Illinois, Urbana Champaign

Session Chair | Prof. Dr. Mohammad Kaykobad

19 Dec Sunday

09: 45 AM - 10 : 30 AM

Keynote 07: Reliable Sensing with Unreliable Sensors: Reimaging the Possibilities and Redefining the Limits

Speaker | M. Ashrafal Alam, IEEE Fellow, Purdue University, USA

Session Chair | Prof. Dr. Quamrul Ahsan

19 Dec Sunday

10: 30 AM - 10 : 45 AM

Health Break

19 Dec Sunday

Technical Session 3

10: 45 AM - 12 : 00 PM

Parallel Session 1: Wireless and Mobile Networking

Session Chairs | Prof. Dr. Md. Obaidur Rahman, Dr. Md. Golam Rabiul Alam

Paper IDs | 76, 155, 159, 164

Parallel Session 2: Signal processing applications for Industry 4.0

Session Chairs | Prof. Dr. Rezwan khan, Prof. Dr. Md. Farhad Hossain

Paper IDs | 44, 56, 81

Parallel Session 3: Efficient design in Control and Power Systems

Session Chairs | Prof. Dr. A H M Abdur Rahim, Dr. Tawhidul Alam

Paper IDs | 35, 36, 39, 41

Parallel Session 4: Power Electronics for smart applications

Session Chairs | Prof. Dr. Md. Ashrafal Hoque, Dr. Ashik Ahmed

Paper IDs | 31, 84, 148, 149

19 Dec Sunday

Technical Session 4

12: 00 PM - 01 : 15 PM

Parallel Session 1: HCI, Algorithms, and Blockchain

Session Chairs | Prof. Dr. Lafifa Jamal, Prof. Dr. Md. Motaharul Islam

Paper IDs | 53, 62, 113, 132





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Event Schedule

Parallel Session 2: IoT and Cloud Computing

Session Chairs | Prof. Dr. Md. Al Mamun, Prof. Dr. Md. Shariful Islam
Paper IDs | 17, 19, 103, 108

Parallel Session 3: Renewable Energy & Sustainability

Session Chairs | Prof. Dr. Abdul Hasib Chowdhury, Dr. Nahid-Al-Masood
Paper IDs | 43, 60, 144, 165

Parallel Session 4: Textile Engineering Applications

Session Chairs | Prof. Dr. Lal Mohan Boral, Prof. Dr. Ummul Khair Fatema
Paper IDs | 2, 37, 92

19 Dec Sunday

01: 15 PM - 02 : 00 PM

Prayer and Health Break

19 Dec Sunday

02: 00 PM - 05 : 00 PM

Workshop on Healthcare Challenges based IoT Sensors & Video

Speaker | **Md. Atiqur Rahman Ahad**, Senior Member, IEEE, Osaka University, Japan
Session Chair | Prof. Dr. Mohammad Shamsul Arefin

19 Dec Sunday

02: 00 AM - 03 : 30 AM

Interactive Poster Session

19 Dec Sunday

03: 30 PM - 04 : 15 PM

Keynote 08: Pushing Intelligence to the Edge of Internet of Things: A new Paradigm enabling Next-Generation Smart Systems of Systems

Speaker | **Prof. Giancarlo Fortino**, IEEE Fellow, University of Calabria, Italy
Session Chair | Prof. Dr. Md. Monirul Islam

19 Dec Sunday

04: 15 PM - 04 : 30 PM

Health Break

19 Dec Sunday

04: 30 PM - 05 : 15 PM

Keynote 09: Edge Intelligence for B5G/6G and IoT

Speaker | **Ai-Chun Pang**, IEEE Fellow, National Taiwan University
Session Chair | Prof. Dr. Abu Raihan Mostofa Kamal

19 Dec Sunday

05: 15 PM - 06 : 30 PM

Prayer Break and Socialization

19 Dec Sunday

06: 30 PM - 07 : 30 PM

Award Giving Ceremony

