

**5th International Conference on Frontiers in Computing and Systems
(COMSYS-2025), September 25-27, 2025**

Organized by

**Warsaw University of Technology, Poland and
COMSYS Educational Trust, Kolkata, West Bengal**

Day 1: 25th September 2025 (THURSDAY)

IST 1130 – 1230/CET 0800-0900: KEYNOTE 1: Limitations of Artificial Intelligence in Abstract Visual Reasoning by Prof. Jacek Mańdziuk

Session Chair: Dr. Mita Nasipuri, Former Professor, Jadavpur University, Kolkata

Venue: Room 101

IST 1230-1430/
CET 0900-1100: **TS-01 (7)**
5,26,38,41,43,45,46

Session Chair:

Dr. Koninika Paul, IIT
Palakkad, Kerala
Dr. Anup Kumar Halder,
IIIT Raichur, Karnataka

Venue: Room 101

IST 1230-1430/
CET 0900-1100: **TS-02 (7)**
114,123,125,132,137,138,160

Session Chair:

Prof. Nibaran Das, Jadavpur
University, Kolkata
Prof. Sandhya Arora
MKSSS's Cummins College
of Engineering for Women,
Pune

Venue: Room 102

IST 1230-1430/
CET 0900-1100: **TS-03 (6)**
222,223,226,228,258,259

Session Chair:

Dr. Ayan Seal, IIITDM
Jabalpur, Madhya Pradesh
Dr. Arnab Kumar Maji,
NEHU, Shillong, India

Venue: Room 103

IST 1230-1500/
CET 0900-1130: **SS-01(10)**
224,225,241,276,280,281,318,
331,332,334

Session Chair:

Dr Soumya Ranjan Mishra,
KIIT, India
Dr Hitesh Mohapatra, KIIT,
India

Venue: Room 105

IST 1445-1645/
CET 1115-1315: **TS-04 (7)**
47,48,50,51,52,56,58

Session Chair:

Prof. Dipak Kumar Kole,
GCETTS, West Bengal
Dr. Apurba Sarkar, IEST
Shibpur, West Bengal

Venue: Room 101

IST 1445-1645/
CET 1115-1315: **TS-05 (7)**
161,164,168,176,183,195,196,

Session Chair:

Dr. Asish Bera, BITS Pilani,
Rajasthan
Dr. Kaushiki Roy,
Czech Technical University,
Prague, Czech Republic

Venue: Room 102

IST 1445-1645/
CET 1115-1315: **SS-02 (6)**
186,202,315,333,354,373,
374

Session Chair:

Prof. Dhrubasish Sarkar,
Supreme Knowledge
Foundation, India
Dr. Gunjan Gupta, Cape
Peninsula University of
Technology, South Africa
Venue: Room 103

IST 1530-1800/
CET 1130-1400: **SS-03(13)**
261,287,304,311,339,340,342,
345,346,359,363,366,381

Session Chair:

Dr. Anirban Bhattacharjee,
SVNIT Surat
Dr. Aswath Babu, IIIT
Dharwad

Venue: Room 105

IST 1700-1830/
CET 1330-1500: **TS-07 (6)**
4,29,57,65,68,174

Session Chair:

Dr. Soumen Kumar Pati,
MAKAUT, India
Dr. Sayantari Ghosh, NIT
Durgapur, India
Venue: Room 101

IST 1700-1830/
CET 1330-1500: **TS-08 (5)**
37,129,135,154,201

Session Chair:

Dr. Sujoy Saha, NIT
Durgapur, West Bengal
Prof. Sayan Chatterjee,
Jadavpur University, Kolkata
Venue: Room 102

IST 1700-1830/
CET 1330-1500: **SS-04(6)**
253,275,278,299,300,307

Session Chair:

Prof. Shubhajit Roy
Chowdhury, IIT Mandi,
Himachal Pradesh
Venue: Room 103

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IST 2030-2130/CET 1700-1800: **Inauguration (OFFLINE)**

- Release of the “COMSYS-2025” brochure by the dignitaries
- Welcome address by Program Chair: Prof. Robert Nowak, Warsaw University of Technology, Poland
- Address by General Chair: Prof. Debotosh Bhattacharjee, Jadavpur University, Kolkata, India
- Address by Prof. Grzegorz Świątek, Dean, Warsaw University of Technology, Poland
- Address by Organizing Chair, Prof. Wojciech Matysiak, Warsaw University of Technology, Poland
- Vote of Thanks by Organizing Chair, Prof. Ram Sarkar, Jadavpur University, Kolkata, India

Venue: Room 101

CET 1830 onwards: **Welcome Dinner**

Day 2: 26th September 2025 (FRIDAY)

IST 1130-1330/ CET 0800-1000: TS-9(7) 60,61,62,67,76,88,109 Session Chair: Prof. Dilip Kumar S M, Bangalore University Dr Pawan Kumar Singh, Jadavpur University, Kolkata Venue: Room 101	IST 1130-1330/ CET 0800-1000: TS-10(7) 203,205,210,212,214,216,218 Session Chair: Dr. Swagata Mandal Jalpaiguri Govt. Engg College, West Bengal Dr. Shyamali Mitra, Jadavpur University, Kolkata Venue: Room 102	IST 1130-1330/ CET 0800-1000: TS-11(7) 272,284,286,292,308,327,328 Session Chair: Prof. Debashis De, MAKAUT, West Bengal Prof. Nilanjan Dey, Techno International New Town, Kolkata Venue: Room 103	IST 1130-1330/ CET 0800-1000: SS-05(7) 232,256,274,282,285,309,360 Session Chair: Dr. Jayita Saha, Manipal Institute of Technology Bengaluru, India Dr. Sunil Kumar Singh, Manipal Institute of Technology Bengaluru, India Venue: Room 105
IST 1345-1545/ CET1015-1215: TS-12(5) 192,204,215, 249,351 Session Chair: Prof. Subhadip Basu,JU, India Dr. Ayatullah Faruk Mollah, Aliah University, Kolkata Venue: Room 101	IST 1345-1545/ CET1015-1215: TS-13(5) 254,301,313,362,383 Session Chair: Dr. Sujata Pal, IIT Ropar, Punjab Dr. Malay Kule, IEST Shibpur, West Bengal, India Venue: Room 102	IST 1345-1545/ CET1015-1215: SS-06(5) 194,209,295,385,387 Session Chair: Dr. Dileep Gopalakrishnan, Jigme Namgyel Engineering College, Bhutan Dr. Shihabudheen K. V., NIT Calicut, India Venue: Room 103	IST 1345-1545/ CET1015-1215: SS-07(5) 271,316,348,365,240 Session Chair: Dr. Saurav Verma, SVKM's NMIMS University, Mumbai Dr. Ashwini Rao, SVKM's NMIMS University, Mumbai Venue: Room 105

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Day 3: 27th September 2025 (SATURDAY) OFFLINE

IST 1230-1430/ CET 0900-1100: **TS-14(8)**
1, 21, 27, 40, 63, 175, 314, 369

Session Chair:

Prof. Anirban Mukhopadhyay, University of Kalyani, West Bengal

Dr. Hiranmoy Roy, RCCIIT, Kolkata

Venue: **Room 101**

IST 1430-1500 /CET 1100-1130: **Coffee Break**

IST 1500-1600/CET 1130-1230: **KEYNOTE 2:** Scalable genomics data analysis by Prof. Tomasz Gambin

Session Chair: Prof. Dariusz Plewczynski, Warsaw University of Technology, Poland

Venue: Room 101

IST 1600-1700/CET 1230-1330: **Lunch Break**

IST 1700-1900/ CET 1330-1530: **TS-15(8)**
34, 92, 139, 156, 157, 159, 229, 233

Session Chair:

Prof. Ram Sarkar, Jadavpur University, Kolkata

Prof. Sarmistha Neogy, Jadavpur University, Kolkata

Venue: **Room 101**

IST 1900-2000/ CET 1530-1630: **KEYNOTE 3:** Spatio-temporal pattern discovery: Is really data mining approach not enough? By Prof. Piotr Maciag

Session Chair: Prof. Shubhajit Roy Chowdhury, IIT Mandi, Himachal Pradesh

Venue: Room 101

IST 2000-2030/CET 1630-1700: **Coffee Break**

IST 2030-2100/ CET 1700-1730: **Valedictory session**

- Address by General Chair: Prof. Dariusz Plewczynski, Warsaw University of Technology, Poland
- Certificate distribution
- Concluding remarks by General Chair: Prof. Debotosh Bhattacharjee, Jadavpur University, Kolkata, India

Session Chair: Prof. Robert Nowak, Warsaw University of Technology, Poland

Venue: Room 101

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Main Tracks:

Track 1: Computational Genomics, Bioinformatics, and Biomedical Informatics

TS7, TS12, TS14

Track 2: Artificial Intelligence, Machine Learning and Data Science

TS1, TS2, TS3, TS4, TS5, TS6, TS9, TS10, TS11, TS15

Track 3: Communication Networks, Cloud Computing, Security and IoT

TS8, TS13

Special Sessions:

SS1: Generative Models and Vision Transformers in Medical Image Analysis

SS2: From Code to Community: AI/ML Driven Solutions for UN Sustainable Development Goals

SS3: Application of Quantum Computing System to solve Optimization Problems.

SS4: Neurodegenerative disorders, neurorehabilitation and their implication on mind

SS5: Sustainable solutions and AI/ML-based approaches in Education.

SS6: Artificial Intelligence in Next-Gen Green Energy Technologies

SS7: Secure Synergies: Cybersecurity Challenges and Solutions in Digital Twin Systems and Emerging Intelligent Infrastructure

Venue building:

Wydział Matematyki i Nauk Informacyjnych Politechniki Warszawskiej

Koszykowa 75, 00-662 Warszawa

Web link: <http://www.mini.pw.edu.pl/>



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