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Patron:

 Prof. S K Verma, Deputy Director, N.I.T Patna, India

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 Assoc. Professor (ECE), N.I.T
 Patna, India

Organizing Co-Chairman:

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 Assoc. Professor (ECE), N.I.T
 Patna, India

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- Dr. Sangeeta Singh,
 Asstt. Professor (ECE), N.I.T
 Patna, India

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 Asstt. Professor (ECE), N.I.T
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- Dr. Bambam Kumar,
 Asstt. Professor (ECE), N.I.T
 Patna, India
- Dr. Richa Agarwal,
 Asstt. Professor (ECE), N.I.T
 Patna, India

International Conference on Artificial Intelligence: Theory and Applications (AITA 2021)

Date: 23rd - 24th December 2021

National Institute of Technology Patna, Bihar, India

About the Conference: International Conference on Artificial Intelligence: Theory and Applications (AITA-2021) will be a leading conference for bringing students, researchers, faculty members and industry experts under one umbrella for betterment of society through innovation in interdisciplinary area. It provides interactive platform for presenting new advances and innovative research results in the fields of Artificial Intelligence and its applications. Various tracks will cover both application and current research trends in the field of artificial intelligence.

About NIT Patna: National Institute of Technology Patna is the 18th National Institute of Technology created by the Ministry of H.R.D. Government of India after rechristening the erstwhile Bihar College of Engineering Patna on 28. 01. 2004. NIT Patna marked its humble beginning in 1886 with the establishment of pleaders survey training school which was subsequently promoted to Bihar College of Engineering Patna in 1924. This made this institute the 6th Oldest Engineering Institute of India. The institute is situated on the south bank of holy river Ganges behind Gandhi Ghat, one of the most important and reverential place of Patna. The Gandhi Ghat is associated with the immersion of ashes of father of the Nation Mahatma Gandhi in the river Ganges. The campus has a picturesque river view with historic building presenting a spectacle of architectural delight and natural beauty.

Call for Papers

The conference program will also include high level talks from invited speakers. Supplemented by contributed talks highlighting new research and perspective in Al domain. The conference chairpersons, along with the entire team cordially invite you to submit your latest original and unpublished research work/results in the field of Artificial intelligence and Applications. The upcoming conference to be held on December 23-24, 2021 at National Institute of Technology Patna, Bihar (India).

AITA 2021 will be contemplating the two Modalities of participation: Face to face and Virtual.

All Accepted and presented papers will be published in SCOPUS Indexed book series Lecture Notes (Springer).

Selected papers from AITA-2021 would be considered for publication in Special Issue of Journal (SCI, SCIE and Scopus indexed.

Important Dates

Paper Submission Dead Line	15 May, 2021
Acceptance	05 September, 2021
Final Submission	25 September, 2021
Registration	26 September, 2021



Registration Fees:

Category	Indian Participants (INR)	Foreign Participants (USD)
Students (UG/PG/Research Scholar)	6000/-	\$150
Academicians	8000/-	\$250
Industry Persons	10, 000/-	\$300
Extra Paper	5000/-	\$100
Extra Pages (Per Page)	1000/-	\$25
Only Attending	2000/-	\$50

General Queries:

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Account Details for Registration:

NITP CF A/c: 50433562364 IFSC Code: IDIB000B810

International Advisory/TCP Committee:

- •Dr. Takako Hashimoto, Professor & Vice President, Director of International Center, Chiba University, Japan
- •Dr. Thuy T. Le Professor & Department Chair,
- San José State University, California U.S.A.
- •Dr. Rafael F. S. Caldeirinha, Professor & Head of Research Group, Instituto de Telecomunicações, Leiria, Portugal
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- •Dr. Prabhat Kumar, Associate Professor, NIT Patna, India
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- •Dr. Maheshwari Prasad Singh, Associate Professor, NIT Patna, India
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- •Dr. Manoj Kumar Singh, Associate Professor, BHU, India
- •Dr. Sudhan Majhi, Associate Professor, IIT Patna, India
- •Dr. J P Singh, Assistant Professor, NIT Patna, India
- •Dr. Amit Kumar Singh, Assistant Professor, NIT Patna, India
- •Dr. Rakesh Ranjan, Assistant Professor, NIT Patna, India
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- •Dr. Puli Kishore Kumar, Assistant Professor, NIT AP, India
- •Dr. Sanjay Saxena, Assistant Professor, IIIT Bhuvaneshwar, India
- •Dr. Pratik Chattopadhyay, Assistant Professor, IIT (BHU), Varanasi, India
- •Dr. Vibhav Prakash Singh, Assistant Professor, MNNIT Allahabad, India

Original and unpublished research papers are invited in the field of following current tracks and sub-tracks, but not limited to:			
1. Artificial Intelligence and Embedded Systems	3. Application of AI in Advanced Communication Networks	Free Space Optical Communication	
Artificial Intelligence	Machine Learning and AI in Networking	Hybrid RF/FSO System	
Machine Learning /Deep Learning	Network and System Security		
Humanitarian Technology	Network Management and Traffic Engineering	5. IoT Based Applications	
Neural Networks	Opportunistic Networks	Internet of Things	
Fuzzy Logic	P2P Networks	Block chain	
Expert Systems	Pervasive Sensing and Socio-Technical Networks	Big Data Analytics in Networking, including IoT Analytics	
Agents and Multi-agent Systems	Cyber Physical Systems	Deep learning	
Natural Language Processing	5G Communication	Datamining	
Data Mining	Physical Layer Communication	Data Analytics	
Computational Optimization	Heterogeneous networks (Het-Nets)	Mobile Applications	
Robotics, Control and Automation	Cognitive radio and white-space networking	Digital Transformation	
Sentiment Analysis	Cloud computing	Social Computing	
Quantum Computing	Information/Content centric networks (ICN)	Smart Cities	
High Performance Computing	Wireless Ad-hoc and sensor networks	Smart Grids and Energy Networks	
Distributed and parallel systems	Systems and networks for smarter energy and sustainability	Sensing and Sensor Networks	
Cognitive Computing	Vehicular communications	Ambient Assisted Living	
Grid Computing	Smart Grid communications and networking	Smart Healthcare	
Optimization	Cognition and Cognitive Computing in Networking	Intelligent Transportation	
Embedded Computing	Online social networks	Data Science	
Scalable Computing	Overlay communications, content distribution	Affective computing	
Human-centered Computing	Microwave communication devices	Agents and Multi-agent Systems	
Mobile computing	Millimeter wave communication devices	Context-aware pervasive systems	
Computer Architecture and Systems	Photonic antennas		
Language Technologies and Information Retrieval	Satellite communications	6. Al in VLSI Applications	
Computational Intelligence System	Wireless communications	VLSI Design,	
	Underwater communications	Fabrication and characterization	
2. Computer Vision and Applications	Cross layer design	Nanostructure and Nano electronics	
Machine Vision		Analog and Mixed Signal IC Design	
Soft-computing	4. Application of AI in Microwave and Optical Fiber Communication	Design of Signal Processing Circuits using Analog Building Blocks	
Human Computer Interaction	High Power RF	FPGA based System Design	
Pattern Recognition	Microwave Devices,	Beyond CMOS Devices	
Computer Vision	Circuits and Systems.	Green Electronics	
Image Processing	RF MEMs,	Steep switching transistors	
Action Recognition	Metamaterial devices	Low Power High Performance Robust Circuit Design	
Geographic Information Systems (GIS)	Microwave Imaging and Remote Sensing	System on Chip (SOC) and Semiconductor Technology	
Video Analysis	Antenna design		
Medical Diagnosis	Microwave communication devices	7. Signal Processing and Applications	
Segmentation Techniques	Millimeter wave communication devices	Biomedical Signal Processing	
Augmented Reality	Filters	Speech Analysis	
Virtual Reality	Dielectric resonator antennas	Speech Enhancement	
Bioinformatics and Machine Learning	THz devices	Speech Recognition	
Datasets and Evaluation	Microwave Absorber	Keyword Spotting	
Medical, Biological and Cell Microscopy	Microwave Integrated Circuits	Speaker and Language Recognition	
	Computational Electromagnetics	Efficient Hardware Architectures for Speech Processing Algorithms	
	Photonics Westernides and Parises	RADAR Signal Processing	
	Waveguides and Devices	Adaptive filters.	
	Optical Fiber and optical networks	Geophysical Signal Processing	