

# **2019 Artificial Intelligence for Transforming Business and Society (AITB 2019)**

**Kathmandu, Nepal  
5 November 2019**



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**Artificial Intelligence for Transforming Business and Society**  
**November 5th, 2019**  
**Venue : Hyatt Regency, Boudha, Kathmandu, Nepal**

Time	Program	
7:00 AM – 8:00 AM	Registration and Networking: Tea/Coffee	60 min
8:00 AM - 8:10 AM	Welcome and Opening Remarks Mr Joey Foster Ellis, Principal, The British College	10 min
8:10 AM - 8:20 AM	Address by the Conference Chair Professor Shashidhar Ram Joshi, Institute of Engineering, Tribhuwan University	10 min
8:20 AM - 8:30 AM	Address by IEEE Nepal Subsection Chair Dr Arun Timilsina, Institute of Engineering, Tribhuwan University	10 min
<b>Keynote Address #1</b>		
8:30 AM - 9:00 AM	Dr Pawel Capik, University of the West of England <b>Topic: Foreign Investment Promotion in the Age of Industry 4.0</b>	30 min
<b>Paper Presentation: 1 to 3</b> <b>Session Chair: Dr Pramod Parajuli</b>		
9:00 AM - 9:15 AM	<b>Paper 1: Fine-Grained Sentiment Classification Using BERT</b> (Authors: Manish Munikar, Sushil Shakya, Aakash Shrestha)	15 min
9:15 AM - 9:30 AM	<b>Paper 2: Time Series Based Pattern Recognition for Anomaly Detection from System Audit Logs</b> (Authors: Prabhat Pokharel, Sandeep Sigdel, Roshan Pokhrel, Basanta Joshi)	15 min
9:30 AM - 9:45 AM	<b>Paper 3: Photograph Ownership and Authorization Using Blockchain</b> (Authors: Kaushal Poudel, Arpan Pokhrel, Arun B. Aryal, Pranita Upadhyaya)	15 min
<b>Keynote Address #2</b>		
9:45 AM – 10:15 AM	Dr Ah-Lian Kor, Leeds Beckett University, UK <b>Topic: Qualitative Spatial Models and Reasoning for Autonomous Navigation</b>	30 min
<b>Paper Presentation: 4 to 5</b> <b>Session Chair: Dr Sanjeeb Prasad Panday</b>		
10:15 AM - 10:30 AM	<b>Paper 4: Optimal Cyber Threat Intelligent System for Nepal</b> (Authors: Swarup Raj Dhungana, Pranita Upadhyaya)	15 min
10:30 AM - 10:45 AM	<b>Paper 5: Image Enhancement Using Successive Mean Quantization Transform and Homomorphic Filtering</b> (Authors: Sujan Adhikari, Sanjeeb Prasad Panday)	15 min
10:45 AM to 11:00 AM	<b>TEA BREAK 1</b>	15 min
<b>Panel Discussion 1: AI Awareness and Ethics</b>		
11:00 AM - 11:45 AM	<b>PANEL members:</b> <ol style="list-style-type: none"> <li>Mr Asgar Ali, CEO, E-Sewa and IT Consultant to Prime Minister of Nepal</li> <li>Mr Subash Manandhar, Senior Director, Fusemachines</li> <li>Mr Birendra Mishra, Joint Secretary, MOCIT</li> <li>Professor Manish Pokharel, Kathmandu University</li> </ol> <b>Moderator: Dr Pranita Upadhyaya</b>	30 min Discussion 15 min Q&A
11:45 AM - 12:45 PM	<b>LUNCH and Poster Presentation</b>	60 min

<b>Paper Presentation: 6 to 12</b> <b>Session Chair: Dr Dibakar Pant and Dr Roshan Chitrakar</b>		
12:45 PM – 1:00 PM	<b>Paper 6: Smart Job Recruitment Automation: Bridging Industry and University</b> (Authors: Vijay Yadav, Ujjwal Gewali, Suman Khatri, Shree Ram Rauniyar, Aman Shakya)	15 min
1:00 PM - 1:15 PM	<b>Paper 7: Design and Implementation of a Cost-Efficient Smart Home System with Raspberry Pi and Cloud Services</b> (Authors: Swojeet Kayastha, Pranita Upadhyaya)	15 min
1:15 PM – 1:30 PM	<b>Paper 8: One-Shot Template Matching for Automatic Document Data Capture</b> (Authors: Pranjali Dhakal, Manish Munikar, Bikram Dahal)	15 min
1:30 PM - 1:45 PM	<b>Paper 9: A Comparison of Semantic Similarity Methods for Maximum Human Interpretability</b> (Authors: Pinky Sitikhu, Kritish Pahi, Pujan Thapa, Subarna Shakya)	15 min
1:45 PM – 2:00 PM	<b>Paper 10: Nepali Image Descriptor</b> (Authors: Sushil Ghimire, Aashish Adhikari)	15 min
2:00 PM - 2:15 PM	<b>Paper 11: A Clustering Based Vertical Fragmentation and Allocation of a Distributed Database</b> (Authors: Abhishesh Dahal, Sashidhar Ram Joshi)	15 min
2:15 PM - 2:30 PM	<b>Paper 12: A Comparative Analysis on the Performance Of Minimum Spanning Tree and k-means Clustering Based Vertical Fragmentation Algorithm</b> (Authors: Abhishesh Dahal, Sashidhar Ram Joshi)	15 min
2:30 PM - 2:45 PM	<b>Paper 13: Machine Learning algorithm in educational data</b> (Authors: Manish Pokharel, Sushil Shrestha)	15 min
<b>Keynote Address #3</b>		
2:45 PM - 3:15 PM	Dr Tim Gocher, CEO, Dolma Impact Fund <b>Topic: An Investor's Perspective on AI</b>	30 min
3:15 PM to 3:30 PM	<b>TEA BREAK 2</b>	15 min
3:30 PM – 3:45 PM	Address by Mr Ravi Bajracharya, CTO/Co-Founder Wiseyak Inc. <b>Topic: AI in Healthcare Management in Nepal</b>	15 min
<b>Keynote Address #4</b>		
3:45 PM – 4:15 PM	Dr Muhammad Bilal, University of the West of England <b>Topic: Modernising Businesses with Artificial Intelligence (AI): Myth or Magic Bullet?</b>	30 min
<b>Panel Discussion 2:</b> <b>Business Intelligence through AI: Why Businesses of Today should Develop AI Strategy for Tomorrow</b>		
4:15 PM – 5:00 PM	<b>Panel members:</b> <ol style="list-style-type: none"> <li>Mr Ravi Bajracharya, CTO/Co-Founder Wiseyak Inc.</li> <li>Dr Bal Krishna Bal, Kathmandu University</li> <li>Mr Ayush Subedi, Co-Founder of Moonlit Solutions</li> <li>Mr Chandan Gupta, Makura Creations</li> </ol> <b>Moderator: Mr Amod Niroula</b>	30 min Discussion 15 min Q&A
5 PM – 5:15 PM	Closing Remarks: Mr Rajen Kandel, CEO, The British College	15 min
5:15 PM: 5:30 PM	<b>Official Photo Session</b>	15 min