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*** The Program is used for MLIS2024 Academic Exchange Only**

Part I Conference Schedule Summary

Sunday, November 17, 2024 / Malaysia Standard Time (UTC+8)

Time	Schedule	Location/Link
14:00-19:00	Physical Registration	Outside EDK (Ground Floor), Block E, Faculty of Engineering and Green Technology, Universiti Tunku Abdul Rahman (Kampar)
15:00-17:00	MS Teams Testing	http://www.academicconf.com/teamslink?confname=mlis2024

Notice (for offline participants):

* Please show us your paper No. such as ML1234 for registration.

* Please pick up all the conference materials at the registration desk (Name Card, Conference Program, Lunch & Dinner Tickets, etc.).

Monday, November 18, 2024 / Malaysia Standard Time (UTC+8)

***MS Teams Link*: http://www.academicconf.com/teamslink?confname=mlis2024**

Welcome Speech

Location: EDK2 (Ground Floor), Block E, Faculty of Engineering and Green Technology

08:30-08:35	**Welcome Speech** *Ir. Prof. Dr. Ng Choon Aun, Faculty of Engineering and Green Technology, Universiti Tunku Abdul Rahman, Malaysia*
08:35-08:50	**Group Photo**

Keynote Speeches

Location: EDK3 (Ground Floor), Block E, Faculty of Engineering and Green Technology

Keynote Speeches are chaired by *Prof. Rinat O. Esenaliev, Department of Neurobiology, Director of Laboratory for Optoacoustic Imaging and Monitoring, University of Texas, USA*

08:50-09:30	**Keynote Speech 1: Biomedical Optoacoustic Imaging and Monitoring: Implications for Machine Learning** *Prof. Rinat O. Esenaliev, Department of Neurobiology, Director of Laboratory for Optoacoustic Imaging and Monitoring, University of Texas, USA*
09:30-10:10	**Keynote Speech 2: I Can't Think of Anything to Say Except "Laughing is nice" – the AI Frenzy Doesn't Stop** *Prof. Vladan Devedzic, Faculty of Organizational Sciences, University of Belgrade, Serbia*
10:10-10:30	**Coffee Break**

10:30-11:10	**Keynote Speech 3: AI driven Sustainability for Autonomous Driving** *Prof. Ankush Ghosh, University Center for Research & Development (UCRD), Chandigarh University, India*
12:00-13:30	**LUNCH BREAK** **Location: Cafeteria (Ground Floor), Block E**
14:00-16:35	**Oral Session 1: Machine Learning and Practical Application**
18:00-20:00	**WELCOME BANQUET** **Location: Grand Kampar Hotel (gathering at 17:30 @EDK2)**

Tuesday, November 19, 2024 / Malaysia Standard Time (UTC+8)

Location: EDK3 (Ground Floor), Block E, Faculty of Engineering and Green Technology

MS Teams Link: **http://www.academicconf.com/teamslink?confname=mlis2024**

09:00-11:55	**Oral Session 2: Data Processing and Mathematics**
12:00-13:30	**LUNCH BREAK** **Location: Cafeteria (Ground Floor), Block E**
14:00-18:00	**Free Activities**

Wednesday, November 20, 2024 / Malaysia Standard Time (UTC+8)

08:30-16:00	**Gathering at Lobby of Grand Kampar Hotel, One Day Tour in Perak**

Part II Keynote Speeches

Keynote Speech 1: Biomedical Optoacoustic Imaging and Monitoring: Implications for Machine Learning

Prof. Rinat O. Esenaliev

Department of Neurobiology, Director of Laboratory for Optoacoustic Imaging and Monitoring, University of Texas, USA

Biography: Rinat O. Esenaliev, PhD, is a Professor at the Department of Neurobiology, and director of the Laboratory for Optoacoustic Imaging and Monitoring at the University of Texas Medical Branch (UTMB), USA. He is a Fellow of SPIE and OSA/Optica. Dr. Esenaliev was working at Rice University and MD Anderson Cancer Center in Houston (Texas) from 1993 to 1997. Since 1997, he has been working at UTMB. Dr. Esenaliev is a pioneer in biomedical optoacoustic imaging and monitoring and has over 30 years of experience in biomedical optics and optoacoustics, optoacoustic instrumentation, and optoacoustic diagnostics, therapy and theranostics. His research interests also also include noninvasive biosensors, nanotechnology, laser-based therapies for cancer and other diseases, anti-cancer drug delivery, OCT, and high-resolution ultrasound. Dr. Esenaliev has over 180 publications (excluding abstracts) that have been cited over 10,000 times, and his publication h-index is 50. He is an inventor of 30 patents (including 22 issued patents) and author of 282 conference presentations, most of them on optoacoustic imaging and monitoring. In 2010, he was a winner of the University of Texas System Chancellor's Innovation and Entrepreneurship Award for "Multiple Therapeutic and Diagnostic Methods and Devices". He received 33 grants for development of novel technologies for noninvasive diagnostics, therapy, and theranostics. Dr. Esenaliev has been serving as an editorial board member of Photoacoustics.

Abstract: In early 90s, we proposed optoacoustics (photoacoustics) for imaging in tissues and medical diagnostics. Since then, many research groups started working in this field and at present optoacoustic technique became an emerging diagnostic modality. It has a great potential to become an invaluable tool for early, cost-efficient, and safe diagnosis. It is based on thermoelastic generation of optoacoustic waves in tissues with optical pulses and provides images with high molecular contrast and high spatial resolution. We proposed to use optoacoustics for diagnostics of a number of diseases including cancer, stroke (ischemic and hemorrhagic), circulatory shock; intracranial hematoma detection, monitoring of cerebral blood oxygenation in patients with traumatic brain injury (TBI), neonatal patients, and fetuses during late-stage labor. This technique is particularly suitable for quantitative, real-time, continuous measurements and monitoring of blood oxygenation including cerebral blood oxygenation with high accuracy and resolution. We developed and built medical grade laser-based systems for optoacoustic imaging, monitoring, and sensing. We developed software and algorithms for real-time, continuous imaging and monitoring in tissues with high accuracy and resolution. Unique ultra-sensitive, wide-band optoacoustic detectors were developed by our group for a number of clinical applications. We performed successful pre-clinical and clinical

tests of the systems in healthy volunteers, patients with TBI, and critically ill patients. For further improvement accuracy and resolution machine learning can be used. Machine learning can substantially enhance the diagnostic capabilities of this emerging imaging technique. Applications of machine learning may also significantly shorten time for optoacoustic diagnosis.

Keywords: Optoacoustic, photoacoustic, imaging, monitoring, machine learning
Acknowledgements: We thank the National Institutes of Health (NIH), other funding agencies, and industry for support of these studies.

Keynote Speech 2: I Can't Think of Anything to Say Except "Laughing is nice" - the AI Frenzy Doesn't Stop

Prof. Vladan Devedzic

Faculty of Organizational Sciences, University of Belgrade, Serbia

Biography: Vladan Devedzic is a Professor of Computer Science and Software Engineering at the University of Belgrade, Faculty of Organizational Sciences. He is the founder and Head of the research group focused on Artificial Intelligence (GOOD OLD AI research network). He is also the founder of the Artificial Intelligence Laboratory at his home faculty. Since 2021, he has been a corresponding member of the Serbian Academy of Sciences and Arts (SASA) at the Department of Technical Sciences. According to the list of world's top scientists, published by Stanford University, he is among 0.6% of the most cited researchers in the "career" category in the field of Artificial Intelligence (for the period 1996-2023). Vladan Devedzic continuous professional goal is to bring together ideas from the field of Artificial Intelligence / Intelligent Systems and Software Engineering. His current interests include artificial intelligence, programming education, software engineering, and technology-enhanced learning.

Abstract: The AI frenzy started several years ago, and it doesn't seem to stop any time soon. Moreover, with the advancement of Large Language Models (LLMs) and, more recently, Large Vision Models (LVMs), we are witnessing how everything is changing at an overwhelming pace. This talk surveys recent trends in AI and how relevant stakeholders – industry, academia, governments, common people, and society at large – react to it. The talk stresses the fading of borders between AI and other disciplines, such as data science, neuroscience, and linguistics. It also highlights how the notion of AI as an entity is becoming increasingly common. Generative AI is seeing enormous investments, but there is simultaneously a constant increase in the costs of developing new LLMs and LVMs. On the other hand, this fact has prompted researchers to start proposing AI models that do not have billions of parameters and are still a promising alternative in a number of tasks. Yet there are phenomena that indicate huge changes in the game. For example, for quite some time it is the industry that dominates developments in AI, not academia. Likewise,

although people have realized the need for responsible AI, industry leaders use different benchmarks to test their models, which makes it difficult to compare the risks that different models bring. Many countries and governments are developing regulations to guardrail AI developments, but new developments in AI largely outpace the development of regulations.

Keynote Speech 3: AI driven Sustainability for Autonomous Driving

Prof. Ankush Ghosh

University Center for Research & Development (UCRD), Chandigarh University, India

Biography: Prof. Ankush Ghosh is Senior member of IEEE, Fellow of IETE working as Vice-President at ADSRS Education and Research Foundation, India. He has received his Ph.D. (Engg.) degree from Jadavpur University, India in 2010. He was a research fellow of the Advanced Technology Cell- DRDO, Govt. of India. He was awarded National Scholarship by HRD, Govt. of India. He has outstanding research experiences and published more than 20 edited books from Springer & Elsevier; 3 National & 8 International patents and more than 150 research papers indexed in Scopus/Web of Science. He is serving as an editorial board member of several international journals including Chief Editor. He has more than 20 years of experience in teaching, research as well as industry. His UG and PG teaching assignments include Microprocessor and microcontroller, AI, IOT, Embedded and real time systems etc. He has delivered Keynote/Invited lecture in a number of international seminar/conferences, refreshers courses, and FDPs. He has guided a large number of M.Tech and Ph.D. students. Dr. Ghosh is an active member of IEEE and organized a number Seminars and workshops in association with IEEE. He is an editor & organizing committee member of the Conference series GUCON, GlobConET, GlobConPT, GlobConHT, ICACIS ICCCA, ICEEE, ICACIT. He is a Global Jury member of National Entrepreneurship Network- Mentor Group. He has received award for contributing in Innovate India programme from AICTE- DST, Govt. of India in 2019 and 2020.

Abstract: Self-driving technology is poised to revolutionize transportation infrastructure globally, offering a unique opportunity to enhance the quality of life. As urban areas face challenges such as rapid growth, avoidable collisions, vehicle emissions, and congestion from single-occupant commuters, autonomous vehicles promise to transform transportation systems by delivering significant environmental, social, and economic benefits. However, autonomous ground vehicles (AGVs) must overcome various challenges to navigate safely from origin to destination. In this lecture, we will explore these challenges across different self-driving models. We will delve into self-driving algorithms, the integration of supervised learning and reinforcement learning, fundamental driving functions, and collision avoidance using deep reinforcement learning. The talk will conclude with test results and an assessment of risk levels for self-driving technology.

Part III Oral Presentations

General Guidelines

- All presentation times are shown in **Malaysia Standard Time (UTC+8)**;
- Duration for Invited Oral Presentation: 20 Minutes of Presentation including 3-5 Minutes of Q&A;
- Duration for Regular Oral Presentation: 15 Minutes of Presentation including 2-3 Minutes of Q&A;
- All presenters are requested to reach the Session Room 15 minutes prior to the schedule time and complete their presentation on time;
- Presenters should prepare Power Pointer or PDF Files for Presentation with Paper ID (**ML*******) marked in the last page;
- Signed and stamped presentation certificate would be issued after presentation.

Offline Oral Presentation Guidelines

Devices Provided by the Conference Organizer:

- Laptops (with MS-Office & Adobe Reader)
- Projectors & Screen, Laser Sticks, Microphones
- Please send us the PowerPoint once it is ready and have the PPT back up in a U-disk. For presenters who do not send the PowerPoint, please save it in the laptop of the corresponding session 15 mins in advance. Kindly tell the Session Chair (before the start of your session) that you are presenter.

Online Oral Presentation Guidelines

- Online Oral Presentation will be conducted via Microsoft Teams Meeting.
- If a presenter is not able to show up via Teams, the session chair/conference secretary will play the pre-recorded video presentation during his/her scheduled presentation time. If listeners have questions about the presentation, please contact the conference secretary to forward the questions.

Best Oral Presentations Selection Guidelines

Selection Criteria:

ONE best presentation will be selected from EACH session based on the following criteria:

- ✓ Research Quality
- ✓ Presentation Performance
- ✓ Presentation Language
- ✓ Interaction with Listeners
- ✓ PowerPoint Design
- ✓ Effective Communications

Selectin Procedure:

- ✓ An assessment sheet will be delivered to listeners before the session.

- ✓ Write the numbers of two best presentations and submit the filled assessment sheet (with the listener's name and signature) to the Session Chair before the session termination.
- ✓ The Session Chair will count the votes for each presentation and name the winner based on the maximal number of votes. The Session Chair has three votes but can use only one in favor of his/her own presentation (if any). To avoid any conflict of interests, only registered listeners are entitled to vote.

Best Oral Presentations Award:

- ✓ This award consists of free registration to the next conference MLIS 2025 and a certificate.
- ✓ The awards will be announced at the official website after the conference.

Assessment Sheet Sample

MLIS 2024 Oral Presentation Assessment

Dear participants,

After carefully listening to the presentations of this session, please kindly recommend two excellent Oral Presentations with reference to the following evaluation criteria.

The Session Chair will count the votes from each presentation and select ONE Best Oral Presentation in this session. If there is a tie, the Session Chair will make the final decision.

The winner will be announced at the official website after the conference.

You can refer to the following Criteria:

Items	Assessment
Content	Right, Logical, Original, Well-Structured
Language	Standard, Clear, Fluent, Natural
Performance	Spirited Appearance, Dress Appropriately, Behaves Naturally
PPT	Layout, Structure, Typeset, Animation, Multimedia
Reaction	Build a Good Atmosphere, Speech Time Control Properly

Please write down paper ID and give reasons for your recommendation:

Paper ID	Reasons

Evaluated by: __________ (Paper ID: ____________)

Note: When the session finished, please fill it out and give it to the Session Chair so that the Best Oral Presentation in this session can be selected.

Session 1: Machine Learning and Practical Application

Time: Monday, November 18, 2024
Location: EDK3 (Ground Floor), Block E, Faculty of Engineering and Green Technology
Session Chair: ***Prof. Vladan Devedzic, Faculty of Organizational Sciences, University of Belgrade, Serbia***
Online Room Link: http://www.academicconf.com/teamslink?confname=mlis2024

14:00-14:20	ML1724	**Evolutionary Music Monophony Generator Using Non-Binary Representation Genes from Genetic Algorithm** *Mr. Hoong-Cheng Soong, Universiti Tunku Abdul Rahman (UTAR), Malaysia*
14:20-14:40	ML1731	**Machine Learning Based Instrument Cluster Inspection Using Camera** *Mr. Indranil Bose, Varroc Engineering Limited*
14:40-15:00	ML1736	**Human-Computer Interaction in Artificial Intelligence with Applications in Healthcare: A Review** *Ms. Emilia-Loredana Pop, Faculty of Mathematics and Computer Science, Babes¸-Bolyai University, Romania*
15:00-15:20	ML1743	**Security of Digital Communications: Post-Quantum Cryptography Era Begins** *Dr. Manohar Raavi, Department of Computer Science, Kennesaw State University, USA*
15:20-15:40	ML1746	**Restaurant Recommendation System in Malaysia Using Machine Learning Approach** *Ms. Nur Lyana Shahfiqa Albashah, Faculty of Information and Communication Technology, Universiti Tunku Abdul Rahman, Malaysia*
15:40-16:00	ML1752	**Machine Learning Models for Hotel Review: A Case Study of Hotels in Perak, Malaysia** *Dr. Adeb Salh, Department of Computer and Communication Technology, Faculty of Information and Communication Technology, Universiti Tunku Abdul Rahman, Malaysia*
16:00-16:15		**Coffee Break**
16:15-16:35	ML1737	**Research on Traceable Handwritten Signature Anti-counterfeiting and Verification System** *Dr. Feiyue Ye, School of Computer Engineering, Jiangsu University of Technology, China*

Session 2: Data Processing and Mathematics

Time: Tuesday, November 19, 2024
Location: EDK3 (Ground Floor), Block E, Faculty of Engineering and Green Technology
Session Chair: ***Dr. Manohar Raavi, Department of Computer Science, Kennesaw State University, USA***
Online Room Link: http://www.academicconf.com/teamslink?confname=mlis2024

09:00-09:20	ML1730	**Software Reliability Modelling and Application in Software Development Life Cycle** *Dr. Apoorv Mohan Satpute, Varroc Engineering Limited*
09:20-09:40	ML1740	**Antimatter Networks for Combating the Dying ReLU Problem** *Mr. Nick Sen Chua, Mont' Kiara International School, Malaysia*
09:40-10:00	ML1757	**Improving Writing Skills: Integrating News in Levels and Instagram** *Ms. Deni Yatri, Universitas Negeri Malang, Indonesia*
10:00-10:20	ML1705 (Online)	**Promoting Higher Order Thinking Skills in Undergraduates: Conceptualizing Challenge-Based Learning through Personal Learning Environments Platform** *Dr. Huanhuan Zhang, Faculty of Applied Sciences, Macao Polytechnic University, China*
10:20-10:35		**Coffee Break**
10:35-10:55	ML1745 (Online)	**Outline of a PAC Learnable Class of Bounded Functions Including Graphs** *Dr. Kevin H. Xu, Froglingo Development Association, USA*
10:55-11:15	ML1755 (Online)	**Challenges of Implementing Sustainable Manufacturing in the Industrial Metaverse through Big Data and AI** *Prof. Dimiter Velev, University of National and World Economy, Bulgaria*
11:15-11:35	ML1756 (Online)	**Generative AI Privacy Issues** *Prof. Plamena Zlateva, University of National and World Economy, Bulgaria*
11:35-11:55	ML1758	**A Computational Approach to Humanitarian Logistics for Pandemics: Integrating System Dynamics and Stochastic Programming for Elderly Population Prioritization** *Dr. Behzad Mosalla Nezhad, School of Engineering and Science, Tecnológico de Monterrey, Mexico*

Part IV Conference Venue

Venue: Universiti Tunku Abdul Rahman (Kampar)

Address: Jalan Universiti, Bandar Barat, 31900 Kampar, Perak Darul Ridzuan, Malaysia
Website: https://utar.edu.my/

Access to Universiti Tunku Abdul Rahman (Kampar)

1. Kuala Lumpur International Airport (KLIA) T1 or T2 →Universiti Tunku Abdul Rahman (Kampar)

(1) Kuala Lumpur International Airport $\xrightarrow{\text{KLIA Ekspres}}$ KL Sentral Station $\xrightarrow{\text{KTM ETS train}}$ 

Kampar Railway Station $\xrightarrow{\text{Taxi}}$ Universiti Tunku Abdul Rahman (Kampar)
(The whole journey will take about 3.5 hrs)

♦ First, from the airport (**KLIA T1 or KLIA T2**), take **KLIA Ekspres** to reach **KL Sentral Station** (about 35 - 40 min).
The KLIA Ekspres service links KLIA T1 and KLIA T2 to Kuala Lumpur Sentral Station.
KLIA T1 - KL Sentral Station 35 min (available every 20 min; Earliest 05:00, Latest 00:05)
KLIA T2 - KL Sentral Station 40 min (available every 20 min; Earliest 04:55, Latest 00:00)
For more details, please refer to http://www.kliaekspres.com/

♦ Then take **KTM ETS train** from **KL Sentral Station** to reach **Kampar Railway Station** (about 2h 14 min). Please click here for the **ETS train timetable** for references (it may change subjected to actual conditions) or please check more details at http://www.ktmb.com.my/ktmb/index.php?r=portal/index

♦ At last, from **Kampar Railway Station**, take a taxi to **Universiti Tunku Abdul Rahman (Kampar)** (About 6km).

(2) Directly By Taxi (About 2.5 hrs-3.5 hrs)

Kuala Lumpur International Airport Terminal 1 (KLIA) practices a Two-Tier Taxi Services system, involving both limousines provided by taxi concessionaire Airport Limo and city cabs to pick up passengers at the KLIA, to reduce waiting time for passengers to under 10 minutes. More information about Taxi Service could be found via https://www.klia2.info/klia/taxi-services/

♦ Meterer Taxis are available at level 1 and 3 of the Main Terminal Building;

♦ The taxi and limo services at KLIA operate through a coupon system that you purchase at Airport Limo counters at:

1.International Arrival Hall (just after Customs, before the public arrival area)
2.Domestic Arrival Hall (public area after Domestic Baggage Clearance)
3.Domestic Baggage Reclaim, Arrival Level

♦ It takes about 2.5 hrs to 3.5 hrs by taxi.

♦ More information about the Airport Taxi and Metered Taxi Service could be found via

- Airport Taxi & Limo Services
- Metered Taxi Services

2. Penang International Airport → Universiti Tunku Abdul Rahman (Kampar)

Penang International Airport Taxi  → Butterworth Railway Station (Penang Sentral) KTM ETS train 

→ Kampar Railway Station Taxi  → Universiti Tunku Abdul Rahman (Kampar)

(The whole journey will take about 3 hrs)

♦ First, **take a taxi** from the airport to **Butterworth Railway Station (Penang Sentral)** (about 27km, 26 min). Taxis at the Penang International Airport are managed by a consortium, using a coupon system. Coupons are to be purchased at the counter outside the arrival hall immediately after custom clearance. After purchasing the coupon, go directly to the taxi waiting area, where some taxis will be available.

♦ Take **KTM ETS** from **Butterworth (Penang Sentral)** to reach **Kampar Railway Station** (about 2h 10 min).
Please click here for the ETS train timetable for references (it may change subject to actual conditions).

♦ At last, from **Kampar Railway Station**, **take a taxi** to **Universiti Tunku Abdul Rahman (Kampar)** (About 6km).

Part V Acknowledgements

On behalf of the MLIS 2024 Organizing Committee, we would like to take this opportunity to express our sincere gratitude to our participants. We would also like to express our acknowledgements to the Technical Program Committee members who have given their professional guidance and valuable advice as reviewers. For those who contribute to the success of the conference organization without listing the names below, we would love to say thanks as well.

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Memo Pages