

PSM UMPSA won GOLD Medal at ITEX'24

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Kuala Lumpur, May 17, 2024 – Associate Professor Dr. Roslinazairimah Zakaria, alongside team members Mr. Syahrizal Salleh, Dr. Siti Roslindar Yaziz, and co-inventor Dr. Noor Fadhilah Ahmad Radi from UiTM, garnered a prestigious gold medal at The 35th International Invention, Innovation, Technology Competition & Exhibition Malaysia (ITEX'24). The event, held at the Kuala Lumpur Convention Centre (KLCC), is renowned as Asia's leading platform for showcasing cutting-edge inventions, innovations, and technological advancements.



The image shows a celebratory poster for the ITEX'24 Gold Medal award. At the top left is the logo of the Centre for Mathematical Sciences (Pusat Sains Matematik) at UMPSA. The main text is in large, elegant purple script: "Tahuriah" (Congratulations), followed by "Setinggi-tinggi" (Highest). The names of the winners are listed: "ASSOC. PROF. DR. ROSLINAZAIRIMAH ZAKARIA", "MR. SYAHRIZAL SALLEH, DR. SITI ROSLINDAR YAZIZ", and "CO-INVENTOR: DR. NOOR FADHILAH AHMAD RADI (UiTM)". Below this, it states "for winning GOLD MEDAL for a project titled Dynamic Learning System for BEV Charging Demand Prediction at ITEX'24". The ITEX'24 logo is prominently displayed at the bottom. On the right side of the poster is a photograph of Associate Professor Dr. Roslinazairimah Zakaria, wearing a blue hijab and a black blazer. At the very bottom, there is a row of logos for various accreditation and partner organizations, including PSM UMPSA, UMPSAMalaysia, TEKNOLOGI UNTUK MASYARAKAT, STARS, WORLD UNIVERSITY AWARDS, THE, and UTM.



The winning project, titled “Dynamic Learning System for BEV Charging Demand Prediction,” addresses a pressing issue in the transportation sector, which significantly impacts global emissions. The transition to battery electric vehicles (BEVs) is crucial for reducing emissions but poses challenges to national grids and electricity generation systems. This concern spurred Dr. Roslinazairimah and her team to create a software capable of accurately predicting electricity demand from the private BEV charging point.

Utilizing a hybrid of time series and machine learning models, the software can effectively forecast electricity demand, facilitating better grid management and promoting the adoption of BEVs without overwhelming existing infrastructure. The project demonstrated the substantial benefits of integrating robust statistical models with machine learning to derive actionable data insights.



"Winning the gold medal at ITEX'24 is a testament to the hard work and innovative spirit of our team," said Associate Professor Dr. Roslinazairimah. "Our software not only addresses a critical issue in the shift towards cleaner transportation but also exemplifies the potential of advanced predictive analytics in solving real-world problems."

The success of Dr. Roslinazairimah and her team not only brings pride to Universiti Malaysia Pahang Al-Sultan Abdullah but also sets a benchmark for future innovations in sustainable transportation solutions.

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