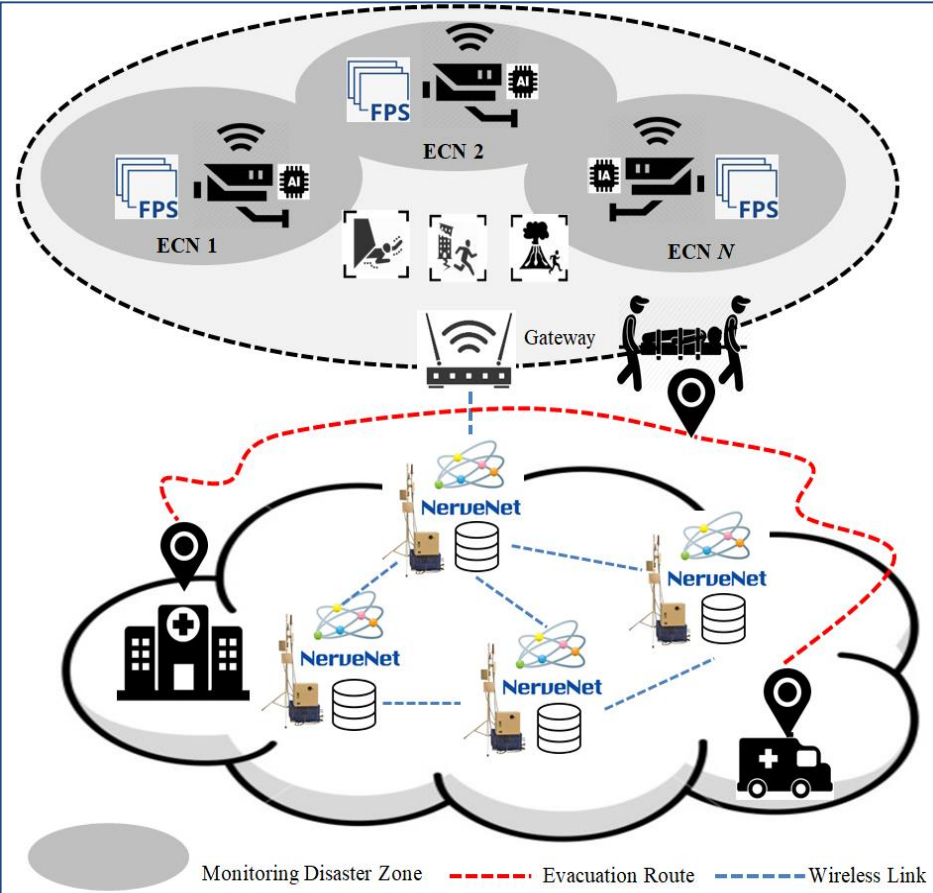


Natural disasters occur frequently around the world. Internet of Things (IoT) sensors can detect such cataclysmic events, but these data are often analyzed in the cloud. This project aims to develop a context-aware disaster mitigation system (CAMS) that utilizes mobile edge computing (MEC) and wireless mesh network powered by NerveNet. Armed with MEC, each IoT node executes AI detection tasks locally and submits metadata comprising the disaster content to a gateway. The gateway eliminates disaster content redundancy by performing cluster traffic scheduling based on disaster activity level. Such critical information is stored in the distributed database of NerveNet. Using wireless mesh networking, data can be disseminated to emergency response unit (ERU) for rescue planning.



Name/Position/Institution	Name/Position/Institution	Name/Position/Institution	Name/Position/Institution
Tham Mau Luen (Project Leader)/ Assistant Professor/ UTAR, Malaysia	Chang Yoong Choon/Associate Professor/ UTAR, Malaysia	Ezra Morris/ Associate Professor/ UTAR, Malaysia	Lee Ying Loong/ Assistant Professor/ UTAR, Malaysia
Hachihei Kurematsu/ Senior Vice President/ BHN Association/JTTA, Japan	Nordin Bin Ramli/ Senior Researcher/ MIMOS, Malaysia	Yasunori Owada/ Senior Researcher/ NICT Japan	Goshi Sato/ Researcher/ NICT Japan
Nobuyuki Asai/ Deputy Director/ NICT Asia Center, Japan	Myint Myint Sein/ Professor/ UCSY, Myanmar	Thin Lai Lai Thein/ Professor/ UCSY, Myanmar	Suvit Poomrittigul/ Assistant Professor/ PIT, Thailand