Dr.Tang has more than 30 years of research and development experience in Artificial Intelligent (AI). Very competent in using Natural Language Processing (NLP) tools for the development of Machine Translation (MT) and interpretation systems. Well known for his research efforts related to the application of positional computing schema called Structure String-tree Correspondence (SSTC) for Machine Translation, and very much involved in establishing collaborations with various organizations, especially among the interested research centers in the ASEAN region and the very long term partners from France.

His research works lead him to over 19 R&D projects (5 at international level and 14 at national/university level) and has brought in research grants totaling well over RM2,000,000 as an individual, and involving more than RM6 million for both research and commercialization grants, and does state-of-the-art research with many industrial and international linkages.

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Key Professional Experiences in Research & Development:

- R&D Unit Head (1998 - 2008)

At Universiti Sains Malaysia's Computer-Aided Translation Unit (UTMK), he exhibited exceptional leadership skills as the head of the unit. His responsibilities included directing a team of researchers, postgraduate students, and developers in conducting R&D in Machine Translation, Computer-Aided Translation, and Natural Language Processing.

- R&D Advisor (2008 - 2018)

At institutions such as Multimedia University (as Dean of Research) and Linton University College (as RD& advisor), he championed R&D efforts aimed at developing an ICT Core Framework with a primary emphasis on multimedia and AI components. During his involvement in the ASEAN-MT project, he facilitated R&D coordination among interested research centers from the ASEAN region, focusing on SSTC-based Computer-Aided Translation and Machine Translation. Additionally, he provided extensive training on CAT/MT and NLP technologies.

- NLP System Innovator (2018 - Present)

He has showcased his innovative prowess as a Python developer creating advanced Natural Language Processing packages. His development efforts include an intelligent MT post-editing facility which offers flexible glossary/translation memory (TM) look-ups at the word, phrase, and sentence level, as well as detecting and capturing user changes for automatic fine-tuning of machine translations. His work extends to translating visual/audio content for the development of a smart computer-aided remote interpretation tool, leveraging existing advanced visual/audio processing tools. His most recent efforts involve the application of Large Language Models (LLMs) for the development of NLP systems.