



## 100Experiments is AISG's flagship program to solve industry business problems through the design and development of AI solutions, translate AI IPs from academia to industry, and help companies build their own AI teams.

datasets) and will be the first national platform for accessing cutting-edge AI tools and solutions for research and commerce. Targeted at small and medium enterprises (SMEs) and start-ups, AI Makerspace will help industries jump-start their AI journey by providing access to resources for experimentation, such as curated datasets from industry and government, cutting-edge AI tools, and supercomputing resources specialized for AI workloads.

### 100Experiments

100Experiments (100E) is AISG's flagship program to solve industry business problems through the design and development of AI solutions, translate AI IPs from academia to industry, and help companies build their own AI teams. An organization can propose a problem statement where no commercial-off-the-shelf AI solution exists, but can potentially be solved through AISG's ecosystem of researchers and research IPs within nine to 18

months. AISG will assemble a team of AI researchers and engineers from Singapore's research and development ecosystem to work on an organization's problem statement. Through a collaborative process, a company's existing technical manpower will work alongside a team of AI researchers and engineering assembled by AISG to develop AI solutions while helping the company build up its internal AI capabilities.

Two examples of successful 100E projects include:

- ▶ **Automatic assessment of chronic wounds in diabetic and elderly patients.** The current practice of assessing wounds is time-consuming as it takes an average of about 30 minutes per wound. The quality of information gathered is also very subjective and relies on the experience of the attending nurse(s). Only about 2% of the nurse population in Singapore are qualified wound nurses, thus it is not possible to offer

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## Developing AI for Law Enforcement in Singapore and Australia

BY LAM KWOK YAN AND CAMPBELL WILSON

NTU SPIRIT Smart Nation Research Centre, together with the Singapore Judiciary, has successfully developed an Intelligent Case Retrieval System (ICRS) using AI capabilities. ICRS enables efficient retrieval of relevant precedent cases through the use of continuously adaptive AI/data analytics approaches. The use of such tools can help the legal profession to understand case details and perform legal research by trawling through the case repositories at a faster and more accurate rate to obtain the most relevant case precedents and identify possible outcomes in different areas of law.

The value of ICRS is to better enable all parties to evaluate the strengths or weaknesses of their cases. With better quality legal submissions, judges too are assisted in their decision-making processes, thus elevating the quality of judgments delivered. The ultimate aim is to fortify the domestic confidence in our courts and boost Singapore's international reputation as a leading Judiciary in the region and the world.

In Australia, Monash University and the Australian Federal Police have joined forces, exploring the use of AI for fighting crime and protecting the vulnerable. They have launched a joint research lab known as AI for Law Enforcement and Community Safety (AiLECS). The lab grew out of previous work into the automated classification of online child exploitation material. The abhorrent material encountered by investigating police reflects the terrible harm endured by victims, while viewing it inflicts psychological damage on investigators. The lab is improving the techniques to classify this and other distressing material using AI, while also undertaking research into the ethics and explanations of such technologies in law enforcement.

The Singapore and Australian research teams have hosted a series of joint dialogues exploring opportunities for collaboration in further developing AI technologies for law enforcement agencies and the judiciary.

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