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OYO, MHIR and Incubit Develops an AI Model Predicting Possible Mudflows from Topographic Map

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(Tokyo,September 5)OYO Corporation(hereinafter "OYO"), Mizuho Information & Research Institute, Inc. (hereinafter "MHIR"), and Incubit Inc.(hereinafter "Incubit") has developed an AI model that finds locations with high probability of mudflows and other slope land related disasters (hereinafter "Mudflows") happening in the future. Through testing the model's accuracy, it was found that the model's practical application is highly feasible.

Japan has long fought natural disasters head on, from earthquakes to typhoons which lead to the country having advanced knowledge and technology in the field of disaster prevention. Even so, mapping out predictions for possible Mudflows from complicated topographic features required precise analysis by highly trained geology experts an extensive amount of time. To reinforce disaster prevention systems in broad areas, and even in regions with limited resources, we needed a creative solution that reduced the cost, manpower and the time of analysis.

OYO with ample knowledge in disaster prevention, MHIR the consultation professional, and Incubit the AI development expert, worked together to create an AI model that predicts possible Mudflows from topographic maps. The AI model was trained with topographic maps and result of the experts' readings of the same maps. The output given by the AI model was examined by geology experts, who concluded that the model is highly feasible for practical use.

As the AI model has proven its feasibility, Incubit alongside with MHIR will continue to support OYO's efforts to establish this new technology. OYO's further plans include developing multi-point sensors to place in danger areas found by the AI model, providing next generation disaster prevention information services, geographic risk assessments focused on earthquakes, and disaster risk reporting services specific to businesses use.

?About OYO Corporation

OYO has been working on upgrading construction business using AI and three-dimensional ground information technology in the fields of ground and disaster prevention.

We are also actively promoting business exchanges with other fields toward the fourth industrial revolution, such as developing an automatic driving support system that utilizes underground radar technology to visualize the inside of the ground.

?About Mizuho Information & Research Institute, Inc.

Mizuho Information & Research Institute (MHIR) is IT-system integration and Think-Tank subsidiary of Mizuho Financial group, which is leading financial institution in Japan. MHIR provides total solutions including consulting, systems integration and outsourcing, that make it a true and trusted IT partner able to support its customers transform their vision into reality.

?About Incubit

Incubit undertakes the challenge of solving industry specific problems alongside the leading companies of Japan adopting the latest technology. We've worked in the fields of medicine, bio tech, space, geology and manufacturing with notable achievements, by virtue of our earnest approach towards solution deployment.
Our current focus and strength is image recognition using deep learning technology, nevertheless, our enthusiasm always lies in finding the best possible solution providable.

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Related Keywords:

Disaster Prevention :: AI :: Deep Learning :: Machine Learning :: Topographic :: Topographic Map :: Technology :: Tech :: Natural Disaster :: Japan ::

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