



# Frontiers of research

## Dr. Shimpei Matsumoto

Dr. Matsumoto's research covers a wide range of areas including educational technology, meta-heuristics, and social media, etc. In particular, he has been tackling development of an information system for food distribution. His research activities include cooperating with local markets or shopping center, which aim at regional economic vitalization, are expected from the region.

The food CMS is one of the developed content management systems which focus on food industrial. The food CMS can control information from production to consumption using a comprehensive database and it is used among producers, distributors and consumers. The basic idea of the food CMS is the store group POS that shares the information between local markets and intends to improve each store's profit.

One of the benefits of the food CMS is to provide support for production planning and order based on demand forecasting. As a result, farmers can realize precise production and sales by using the forecast. In addition, restaurant can suppress cost and maintain quality of food. Dr. Matsumoto says, "Customers can know detailed information of agricultural products (producers, process, and the amount of an agricultural chemical) and can also order food without anxiety."



Farmer's Information System, FIS

In recent years, food safety is very important in Japan and many people pay attention to it. Therefore, the food CMS is expected to be an epoch-making invention which will protect food safety. By applying the food CMS, regional vitalization is expected by optimization of receiving orders or the expansion of sales opportunities. In addition, he has been concerning with the development of Farmer's Information System (FIS) which treats supply chain between production and distribution. The FIS was used at "Happaya farmers' market" in Kobe city and it will develop in cooperating with NPO.

The food CMS can realize brand-building of regional agricultural production and it will also contribute to agricultural development and the production of specialty products. Dr. Matsumoto is a member of executive committee of IEEE SMC Hiroshima Chapter Young Researchers' Workshop. We will watch over his activities and contributions ranged over various information systems.



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