Saitama University Globalization Promotion Program
Faculty of Science, Saitama University

11th HiSEP Special Seminar

In-plane switching technology for liquid crystal displays: Electro-optical effect, its evolution and development

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ABSTRACT We present an overview of in-plane switching (IPS) technologies for liquid crystal displays (LCDs) in terms of historical background, nascent fundamental findings and developments, breakthroughs in addressing display performance issues, and the evolution of materials and device structures. The focus is on how IPS technology has been developed along with changes in the required display characteristics as the target display products continue to evolve. In addition, innovative manufacturing processes, such as photo-alignment technology, have led to the further evolution of IPS technology. Starting with the fundamental frameworks at an early stage, the evolution and development of IPS technology are presented as extensively as possible.

This is an ONLINE-SEMINAR with Zoom service for all students in Faculty of Science and also ones who are interested in the natural science and technologies. Contact "hisep.saitama@gmail.com" to get a connection URL

講義は日本語です．質問は英語・日本語どちらでもどうぞ．

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