

3rd International Conference on Adaptive and Intelligent Agro-Industry (ICAIA) 2015

“Empowering Innovative Agroindustry for Natural Resources, Bioenergy and Food Sovereignty”

August 03-04 (Monday-Tuesday), 2015
IPB International Convention Centre (IICC)
Bogor, Indonesia

CALL FOR PAPERS

ICAIA is organized by the Department of Agroindustrial Technology (DAT) Bogor Agricultural University, Faculty of Agricultural Engineering and Technology, Bogor Agricultural University in collaboration with the Indonesia Agroindustry Association (AGRIN).

ICAIA 2015 aims at providing an effective forum for speakers, academicians, professionals and practitioners coming from universities, research institutions, government agencies and industries to share and exchange ideas, experience and recent progress in Adaptive and Intelligent Agro-industry.

The topics clustered into four main parts :

Track 1 : Innovative Agroindustrial and Business System Engineering

This track covers industrial engineering, production system and management, system science and engineering, Kansei Engineering, process optimization, product and process development, new product development, new product development, transportation system, agro-industrial business process engineering, agroindustrial technopreneurship, and marketing, Innovation and Technopreneurship in Agroindustry, agroindustrial logistics and supply chain management (including marine products supply chain management)

Track 2: Frontier Approaches in Process and Bioprocess Engineering

Process and bioprocess engineering is the industrial processing of raw materials to higher value added products through combinations of physical, chemical or biochemical actions. These processes can be very diverse; since Process & Bioprocess engineering deal with the design, operation, control, and optimization of chemical, physical, and biological processes; and development of equipment and processes for the manufacturing of products such as food, feed, bioenergy, pharmaceuticals, nutraceuticals, chemicals, polymers, and paper from biological materials; and studying various biotechnological processes used in industries for large scale production of biological product for optimization of yield in the end product and the quality of end product.

Track 3: New Trends in Industrial Environmental Engineering and Management

Environmental and sustainability issues have become a strong awareness both nationally and internationally. Climate change, water supply, pollution and waste generation and disposal are examples of major problem in terms of industrial environmental management. As a major user of raw materials, energy, water; and producing various types of products; as well as the main producer of wastes, the industry should be the main actor in environmental management aspects. Industries are required to continue to reduce the environmental impact even more systematically more proactive so that the existing problems are reduced or even disappear in the future. Environmental awareness will be increased along with the development of the local, national, regional, and international community. Therefore, the environmental issue will continue to be an important dimension in the development of the world community. The increased attention lead to the increased need on further development of new and appropriate science and technology as well as human resources in the field of environmental engineering and management to ensure the sustainability of the industrial development.

Track 4. Intelligent Information and Communication Technology for Adaptive Agroindustry of the Future

- Mathematical modelling and its solution using modern information and communication technology (ICT), computational intelligence (neural networks, genetic algorithm, evolutionary computation, particle swarm optimization, ant colony optimization, artificial bee colony, fuzzy logic, etc.) and their applications for agro-industry and other businesses.
- Application of simple and innovative ICT for small and medium agricultural systems and agro-industry in developing countries, precision agriculture and agroindustry, design and optimization of agro-industrial systems for food and energy security using advanced computing technology (parallel computing, super computer technology, quantum technology, nano brain) and their applications for agro-industry and other businesses.

Homepage: icaia.event.ipb.ac.id

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