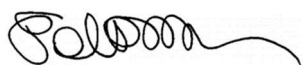# International Commission of Agricultural and Biosystems Engineering

AI Work Group Creation Proposal

Proposed Title:	Artificial Intelligence in in Agricultural and Biosystems Engineering.
Short Title:	Artificial Intelligence
Coordination:	Fedro Zazueta Seishi Ninomiya Patrizia Busato
Target Group:	A&BE professionals and professionals in closely related fields working on AI or having an interest in AI and Data Science. Students in A&BE education programs. Industry that is or may become end users of AI and Data Science in agriculture and natural resources.
Goal:	Create an environment for ABE professionals and related disciplines to collaborate in the development and disseminate useful applications of AI and Data Science in agriculture and natural resources that improve the quality of life of all in a sustainable and socially responsible manner.
Objectives:	1. Identify CIGR professionals working in the field of AI applied to A&BE and create a network for collaboration. 2. Create a dynamic online platform for exchange of ideas and information. 3. Organize a specialty session on AI during the International Meetings and World Congresses. 4. Promote the organization of hands-on workshops by experienced individuals for individuals new to the field (including virtual). 5. Collaborate with INFITA to create special activities during WCCA. 6. Collaborate with the Intelligent Agricultural Equipment Student Competition (IAESC). 7. Write a primer on AI in A&BE (Along the lines of a CIGR Handbook). 8. Develop curriculum and educational materials for inclusion in ABE programs.
Membership:	Members of the workgroup would be individuals wiling to write and deliver on time a chapter of the AI in A&BE Primer in the objectives, or to organize a workshop on the subject. The initial exclusion of individuals simply having "an interest" will avoid problems with deliverables that often occur with WG. After maturity the group will be expanded to a community of interest.
Process:	**February 2021:** Obtain approval for the creation of the WG. **March 2021:** Announce the formation of the WG and call for interested and capable participants. Recruit individuals know to be working in the field. **May 2021:** First organizational meeting by Zoom. Review goals and determine specific actions aligned with the objectives: Review call for chapter proposals for the primer; review participation in SICJMAET;

	identify specific conferences for sessions and workshops; associate tasks to individuals. Define WG governance. **June 2021:** Publish plan for the WG. Provide progress report and begin to execute planned activities. **Ongoing**: Revision of goals, opportunities, action plans and their execution, and evaluation of executed activities.

Patrizia Busato
Section 7 Chair

Seishi Ninomiya
Incoming President

Fedro Zazueta
Secretary General

February 20, 2021