Dear Reader,

Welcome to this 6th edition of the Journal of Innovation. We continue to see the rapid growth of the Industrial Internet of Things as the realization of its value in moving to a digital environment becomes crystal clear in every industry. This digital transformation will serve to make a better world for all of us as it drives down cost of goods sold and cost of services which frees up capital for new and even more innovative investments in improving the human condition, creating new paradigms in industry approaches, new products and new opportunities.

At the recently completed and wildly successful IoT Solutions World Congress event in Barcelona, we saw record numbers of attendees who took advantage of thought provoking presentations on such topics as The Role of Artificial Intelligence and Next Generation IoT. Hundreds of exhibitors offered hands on demonstrations of new IoT technologies in areas spanning not only traditional manufacturing scenarios, but new and exciting technologies. The Industrial Internet Consortium (IIC), as the primary driver of this event, was a major participant at every level.

As the last issue of 2017, we present a broad-based spectrum of thought provoking articles that are reflective of the ever-expanding universe that is IoT. As you read through these articles, be sure to capture the innovative concepts becoming a reality and look for opportunities to apply them to your own efforts at IoT realization. We are particularly pleased to include an article from MIT on Artificial Intelligence which reflects a new approach for the Journal to accept submissions from non-IIC member so as to enhance the value of the Journal to its readership. In this issue, we feature:

- Eric Prevost from Oracle gives us his insight on the rapidly changing world of manufacturing and the promise of Democratized Artificial Intelligence in making that transition a positive one
- Professor Sanjay Sarma and Research Scientist Joshua Siegel of MIT give us a fascinating look at Industrial Intelligence and its implications creating technical magic for Security, Seamlessness and Services for the IIoT
- The co-chairs of the IIC Industrial Analytics Task Group – K. Eric Harper, ABB Technology Limited; Wael Diab, Huawei Technologies and William Sobel, VIMANA – share their thoughts on the recently released Industrial IoT Analytics Framework (IIAF)
- Shi-Wan Lin, Thingswise LLC, and Joseph Fontaine, IIC, discuss the Outcomes, Insights, and Best Practices from the IIC Intelligent Urban Water Supply Testbed that is bringing social and ecological change to China

We hope you enjoy this edition, and encourage you to reach out to us for opportunities to publish your own thought-provoking topics in future editions.

Best regards,

Mark Crawford
Standards Strategist
SAP SE
Thought Leadership, Architecture, & Standards Task Group Co-Chair; Steering Committee Secretary
Industrial Internet Consortium

Edy Liongosari
Chief Research Scientist
Accenture Labs
Thought Leadership Task Group Co-Chair
Industrial Internet Consortium
Dear Reader:

The Industrial Internet Consortium is pleased to publish this sixth edition of the IIC Journal of Innovation.

This collaborative effort is the sum of very many parts and we would like to take this opportunity to recognize and thank the team of editors and peer reviewers who lent their time and expertise to the editorial process of evaluating and enhancing each of the articles contained in this edition with their unique perspectives and wisdom.

Sincere thanks goes to this edition’s editors and peer reviewers:

Mr. Robert Benacka, Board of Directors, ROI Management
Ms. Sandy Carielli, Director of Security Technologies, Entrust Datacard
Mr. Javier Diaz, IIoT Team Leader, Plethora IIoT
Mr. Mark Crawford, Standards Strategist, SAP Strategic IP Initiatives
Mr. Edy Liongosari, Chief Research Scientist, Accenture Labs
Dr. Chenjing Fernando, SW Solution Planner, Electronic Industrial Solutions Group, Keysight Technologies, Inc.
Mr. Ken Figueredo, IoT Ecosystem Strategist, InterDigital Communications Inc.
Mr. Jan-Erik Gustavsson, Vice President, Combient
Mr. Zafer Sahinoglu, Senior Director, Business Innovation Strategic Planning Department, Mitsubishi Electric US, Inc.
Ms. Cheryl Rocheleau, Sr. Marketing Manager, Industrial Internet Consortium
Mr. Matt Sexton, Sr. Marketing Specialist, Industrial Internet Consortium
Ms. Melissa Daley, Sr. Marketing Specialist, Industrial Internet Consortium

As a global, not-for-profit, public-private partnership of 250+ member organizations, we encourage every organization across all industries to get involved and be proactive in shaping the Industrial Internet. We welcome your feedback and participation.

Many thanks,

Kathy Walsh
Director of Marketing
Industrial Internet Consortium

Copyright © 2017 Industrial Internet Consortium, a program of the Object Management Group®. All rights reserved. This document is provided AS-IS and WITHOUT WARRANTIES. Other logos, products and company names referenced in this publication are property of their respective companies.